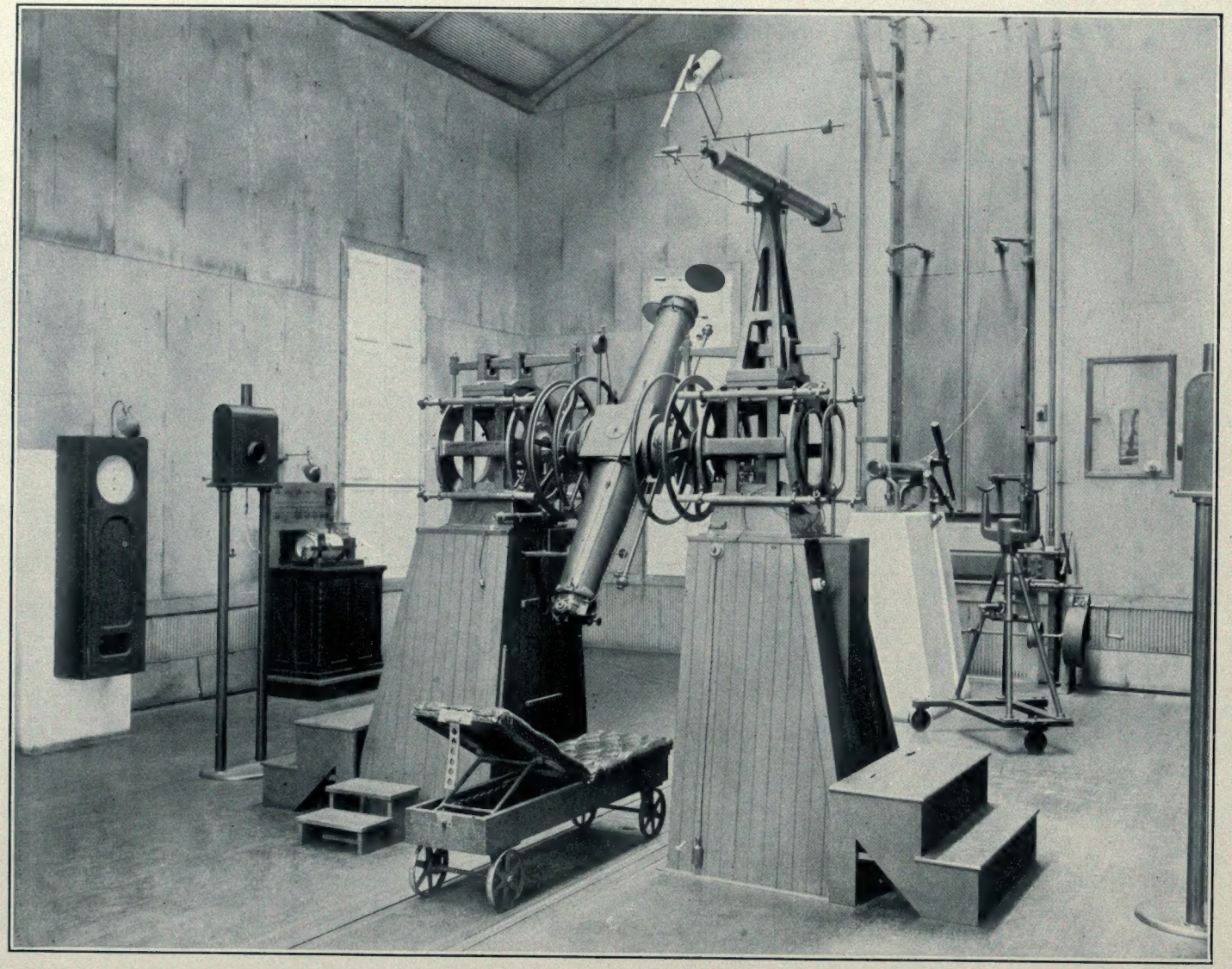


THE 6-INCH TRANSIT CIRCLE WITH ACCESSORIES

[Viewed from the southeast]

PUBLICATIONS

OF THE

UNITED STATES NAVAL OBSERVATORY

SECOND SERIES

VOLUME XI

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MARCH, 1926.

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* Members of the Executive Committee of the Astronomical Council.

PREFACE

After the printer's copy was prepared it was examined and approved by the executive committee of the astronomical council.

EDWIN T. POLLOCK,
Captain, United States Navy, Superintendent.

UNITED STATES NAVAL OBSERVATORY,
March, 1926.

RESULTS OF OBSERVATIONS

WITH THE

SIX-INCH TRANSIT CIRCLE

1909-1918

REDUCED UNDER THE DIRECTION OF

J. C. HAMMOND

DISCUSSED BY

J. C. HAMMOND AND C. B. WATTS

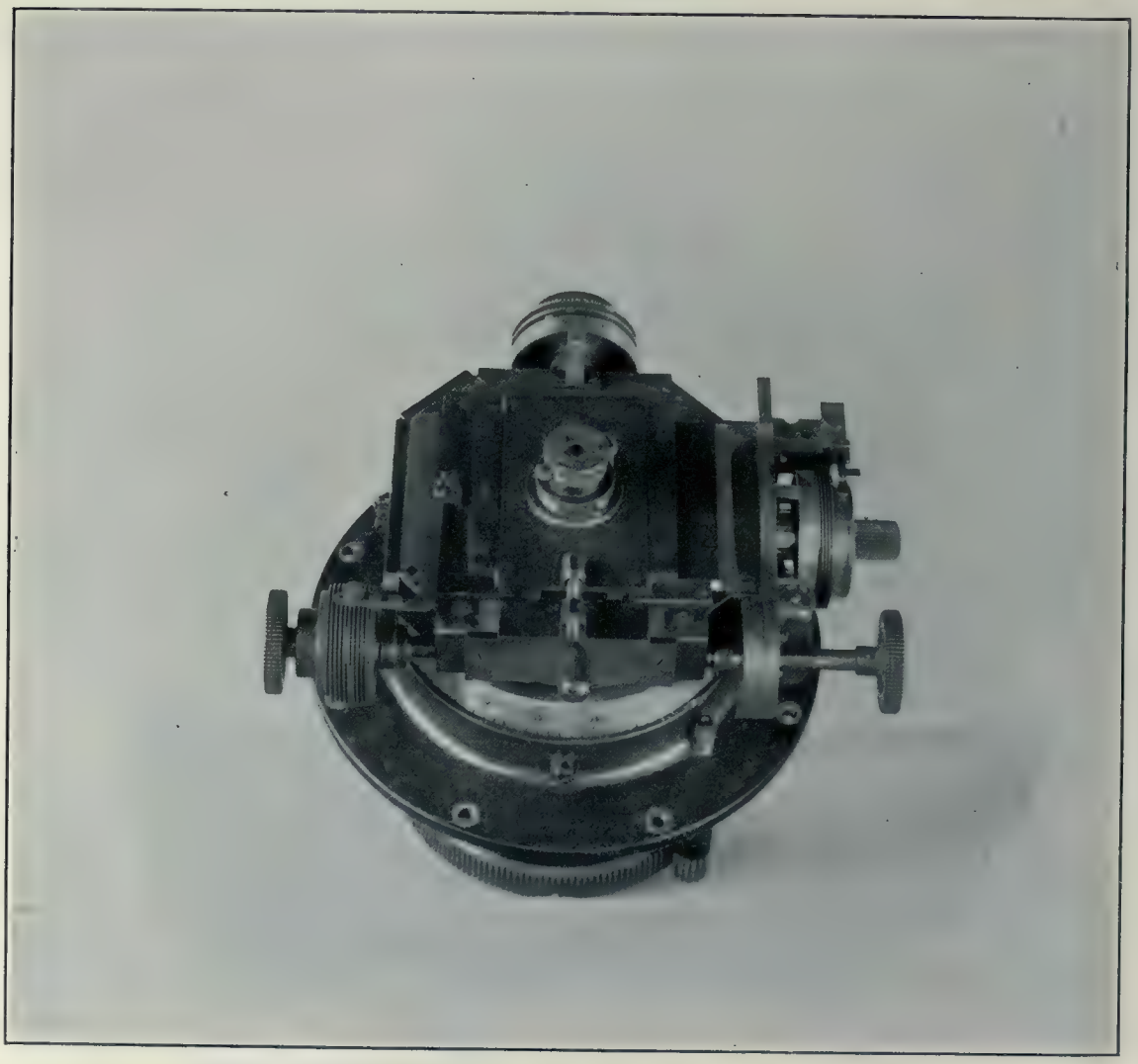
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THE 6-INCH TRANSIT CIRCLE HOUSE

[Viewed from the north]



THE SELF-REGISTERING MICROMETER OF THE 6-INCH TRANSIT CIRCLE

INTRODUCTION

The present volume contains the observations made with the six-inch transit circle from January 1, 1909, to August 16, 1918.

During the years 1909–1910, nearly 5,000 observations of standard stars were made, principally to test the performance of the instrument. In May, 1911, an extensive program was begun which included observations of (1) the Sun, (2) all stars in the American Ephemeris and in Boss's List of 1,059 Standard Stars culminating within 75° of the zenith, (3) all stars in the BACKLUND and HOUGH lists culminating within 70° of the zenith, and (4) certain other stars selected from NEWCOMB's Fundamental Catalogue [1] for the determination of a correction to the refraction. About 300 reflected observations in declination were to be made each year of stars culminating within 60° of the zenith, 80 of these observations to be of circumpolar stars for the determination of latitude. Mercury was added to the observing program in April, 1913, and Venus in September, 1914. The former was observed whenever possible; the latter when near inferior conjunction. This program, which called for at least eight observations of each standard star was completed in April, 1916. From this date until August, 1918, a list of 152 stars selected from the American Ephemeris and Boss's Preliminary General Catalogue was observed, in addition to the Sun, Mercury, and Venus, principally to determine the difference between day and night observations. Since May 15, 1911, this instrument has furnished the time service with the necessary observations for the determination of the time and in the course of the work about 100 miscellaneous stars have been observed by request of various astronomers.

Since certain changes were made in the instrument and in the method of observing after the completion of the 1909–1910 observations, the results of the latter are printed separately.

PERSONNEL

During the progress of the work, the instrument was under the supervision of the following astronomers:

Name	Designation	Period
Prof. MILTON UPDEGRAFF, U. S. N.	U	Jan. 1, 1909, to June 16, 1910.
Prof. F. B. LITTELL, U. S. N.	L	June 16, 1910, to Sept. 20, 1911.
Astronomer J. C. HAMMOND	Hd	Sept. 20, 1911, to Aug. 16, 1918.

[1] Astronomical Papers of the American Ephemeris, Volume VIII, Part II.

The following observers also participated in the work:

Name	Designation	Period
MATT FREDERICKSON	Fn	Oct. 28, 1909, to Aug. 16, 1918.
E. D. TILLYER	T	Jan. 1, 1909, to July 1, 1911.
R. M. PACKARD	Pk	Jan. 1, 1909, to June 30, 1909.
DAVID RINES	R	July 1, 1911, to Feb. 1, 1914.
C. C. WYLIE	Wy	Dec. 3, 1913, to Aug. 16, 1918.
RALPH ASTON	An	Apr. 21, 1914, to Sept. 24, 1915.

The reductions have been made under the supervision of J. C. HAMMOND, partly by the observers and partly by the computers under the direction of Miss ELEANOR A. LAMSON, who has been connected with the work from the beginning. The printer's copy of the Catalogue and of the Individual Results of Observations of Stars has been prepared and some of the comparisons with other catalogues have been made under her supervision. Miss LAMSON has also had charge of checking the printer's copy and of proof reading the entire volume. C. B. WATTS, who was detailed to the instrument on April 1, 1919, has participated in the final reductions and in the discussion of the results.

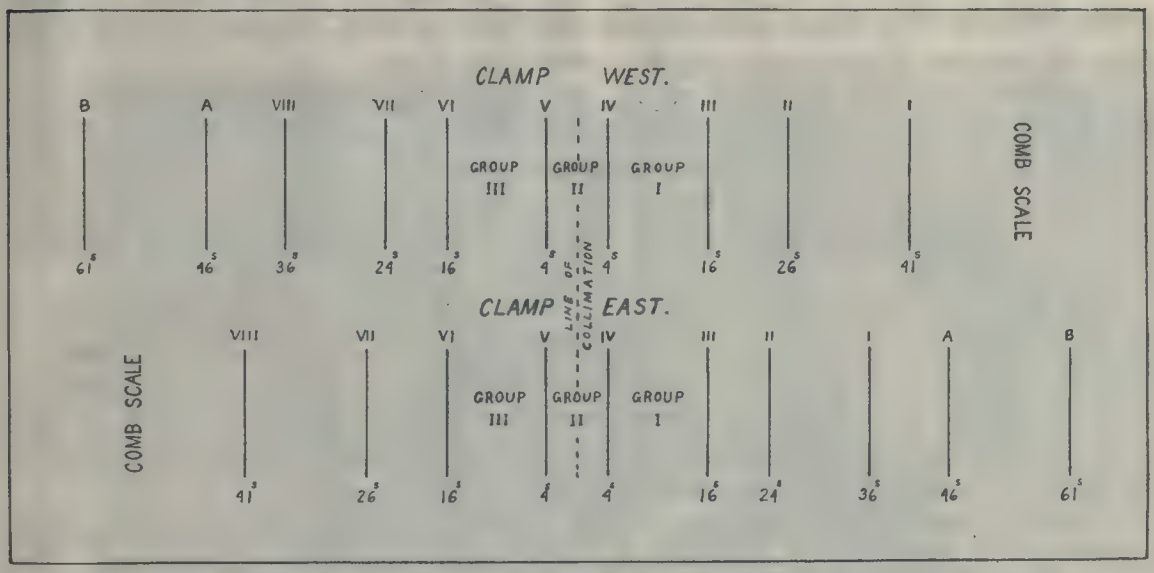
BUILDINGS, INSTRUMENT, AND ACCESSORIES

A description of the instrument, by Professor UPDEGRAFF, is given in Volume III, Part IV, Second Series of the Publications of the United States Naval Observatory. Some subsequent changes are described in Volume IV, Part III. The following additions and changes in the instrumental equipment have since been made.

Self-registering micrometer.—In 1906, the instrument was equipped with a hand-driven self-registering micrometer of the Repsold type, made by the Warner & Swasey Co. In 1908, the micrometer was returned to the makers for certain alterations to be made in the contact wheel and for the addition of a device for automatically suppressing all signals except 10, which were to be spaced symmetrically with respect to the line of collimation. The equatorial intervals between the signals were to be $0^s.76$ with a double interval in the center for purposes of identification. The micrometer was used in this form throughout the 1909–1910 work.

In 1910 a reversing prism, made by BRASHEAR, was attached in front of the eyepiece, and it was necessary to change the number and arrangement of the signals in order that all stars might be observed in two positions of the prism. The automatic cut-out was replaced by a new one, made by Mr. CLEVE, the instrument maker of the observatory. This consists of a wheel of hard rubber with a spiral groove in which are inserted three platinum wires. An auxiliary contact, carried on the eyepiece slide, travels in the spiral groove and signals are recorded only when this contact is on one of the wires. The latter are so placed that there are three groups of signals, arranged as in the following diagram:

FIGURE 1.—*Diagram Showing the Reticule and Arrangement of Contacts, 1911–1918*



Sunshade.—In 1907 a canvas sunshade was installed by Mr. J. E. HURLEY, of Washington. This shade is 4 feet wide and 43 feet long, and contains a hole 8 inches in diameter, through which the Sun is observed. It is mounted to run on two curved tracks, one on each side of, and parallel to, the meridian of the instrument, and protects the instrument and collimators, together with their piers, from the direct rays of the Sun. When not in use the shade is wound around a drum located near the south wall of the observing room.

South meridian mark.—The installation of a south meridian mark was completed in 1907. The lens for viewing the mark is $6\frac{1}{2}$ inches in aperture and about 200 feet in focal length. It is mounted on the pier of the south collimator and the line of sight to the mark passes under the collimator at an angle of depression of about 2° 22′. The mark, which is located at the focus of this lens, is mounted on a brick pier 10 feet high. The pier is sheltered by a house 12 feet 4 inches square constructed of wood with the upper part of louver work.

Clock vault.—The clock vault containing the three standard Riefler sidereal clocks, which has been a part of the division of the 6-inch transit circle since 1908, has been described in Volume IX, Part I, Second Series, Publications of the United States Naval Observatory. The temperature control, which was installed by Mr. E. D. TILLYER, has proved to be entirely satisfactory. With the exception of a few occasions, when relays have failed to operate, the temperature in the clock cases has been maintained practically constant at about 82° F. throughout the entire period of the observations.

Alterations and repairs to instrument.—In August, 1908, the instrument was sent to the Warner & Swasey Co. to have the pivots reground, the divided circles put in good condition, the holes in the pivots enlarged from 1 inch to $1\frac{1}{4}$ inches, and Circle B so fitted on its bearings that it could be easily rotated. The instrument was returned in January, 1909.

While the instrument was undergoing repairs, the brick piers were painted with asphalt varnish and covered with asbestos felt. They were then incased with cherry boards, dressed, tongued, and grooved, and seven-eighths of an inch thick.

This casing is supported by the piers themselves and is separated from the floor of the building by a space of about one-fourth of an inch, this space being closed with felt weather strips to prevent the circulation of air.

In 1909 two new eyepieces of 14 mm. and 9 mm. equivalent focal lengths, giving powers of 126 and 202 diameters, respectively, were purchased from STEINHEIL, Munich. Also a reversing prism was attached to the 9 mm. eyepiece of the instrument and another to the eyepiece of the north collimator. These prisms, with their holders, were made by BRASHEAR and were afterwards used regularly in all observations.

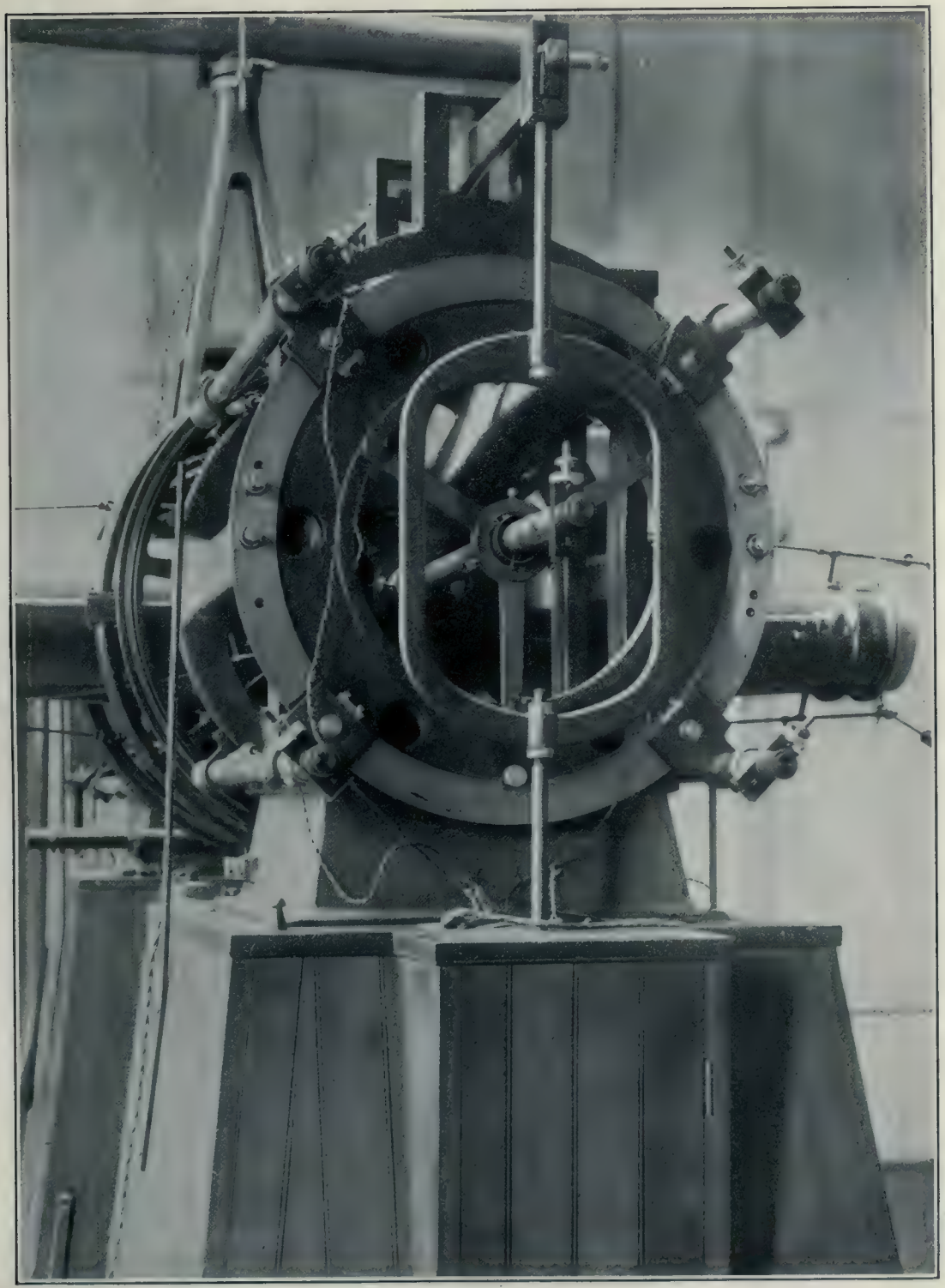
In 1911 two wire gauze screens were attached to the telescope for reducing the brightness of the stars when so desired. They are operated by the observer from the eye end of the telescope. The diminution in brightness produced by these screens is 3.1 magnitudes for Screen I, 4.9 magnitudes for Screen II, and 8.0 magnitudes for the two combined. These values were kindly determined by the Harvard College Observatory from photometric measures.

At this time the illumination of the microscopes was changed and greatly improved. A small 4-volt electric lamp was installed for each microscope. The circuit which supplies the current for these lamps is closed by a switch operated by the observer's foot when a microscope is being read. Also two small telescopes were mounted on the north collimator pier for conveniently reading two thermometers, one over the instrument and one in the shutter opening of the roof.

Personal equation machine.—In 1911 a personal equation machine, designed by Mr. TILLYER, was constructed by the instrument maker. The essential feature of this apparatus is a carriage which carries an artificial star alternately east and west across the line of sight of the telescope and which causes an automatic record to be registered on the chronograph. The speed of the artificial star can be varied to correspond to that of any star, and it is observed in the same manner as a real star. With this instrument the observer's absolute personal equation can be determined under conditions similar to those of actual observation. When in use, the machine is mounted on the pier of the south meridian mark. An artificial sun and artificial planets can be substituted for the star.

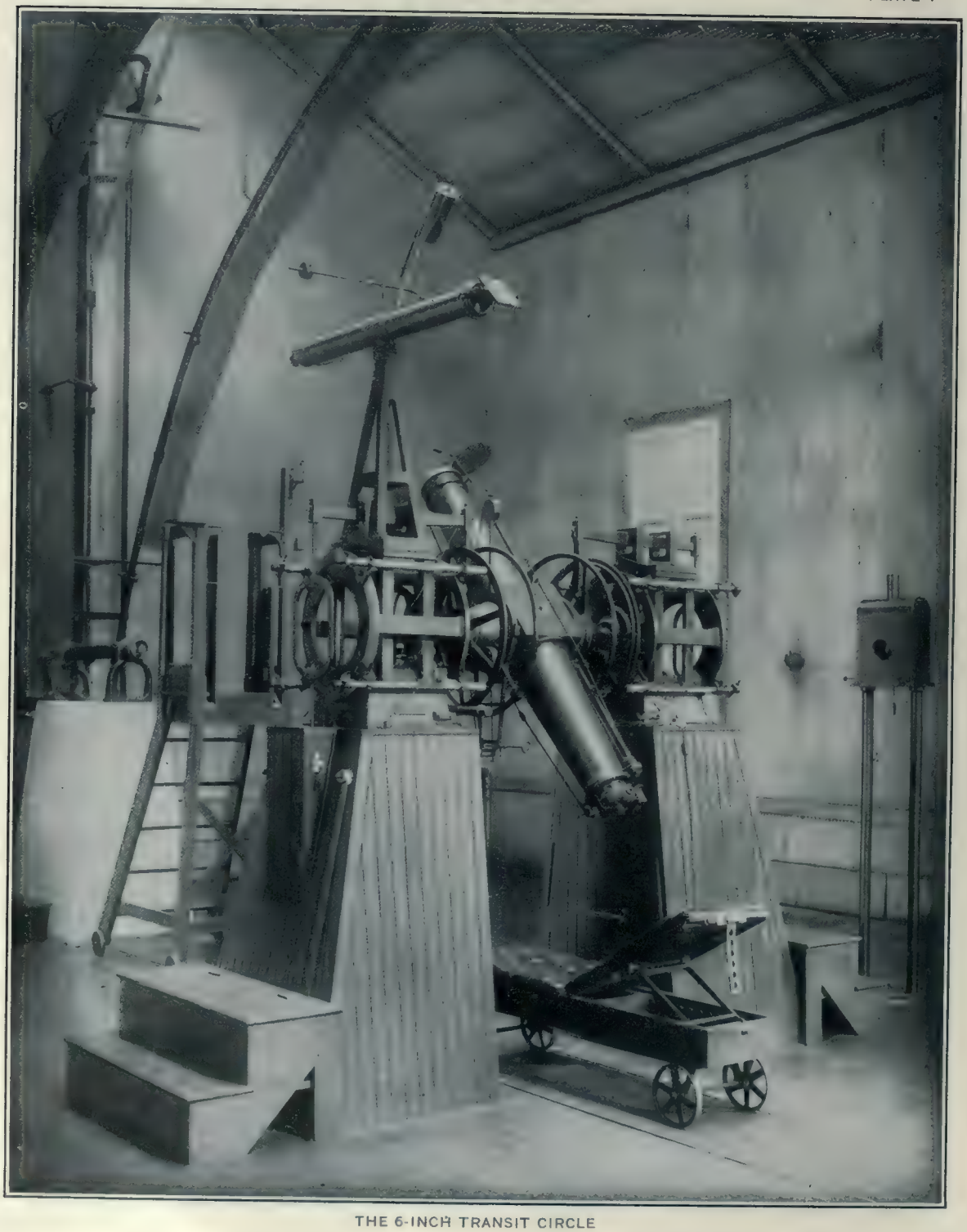
Axial microscope.—In 1911 the axial collimator was replaced by an axial microscope for measuring pivot irregularities. By the latter method, which was originated by Mr. C. W. FREDERICK, the observer views an artificial spot on the pivot with a microscope of high power, so that any irregularity in the motion of the spot as the telescope is rotated is easily detected. The best spot for this purpose is a globule of mercury vapor condensed on glass. The microscope consists of a brass tube about 18 inches in length with an objective belonging to the Stackpole comparator and a micrometer belonging to the transit instrument. The focal lengths of the objective and eyepiece are each about 1 inch, giving a magnifying power of approximately 250 diameters. When in use, the microscope is firmly supported in one of the microscope bearers of the instrument and measures are made on each pivot in both horizontal and vertical coördinates, giving the irregularities in the motion of the pivots in azimuth and level. The illumination of the spot was furnished by an electric lamp shining through the opposite pivot, with a ground glass screen to diffuse the light. Results of great accuracy can be obtained by this method.

Barometer and thermometers.—Barometer Green No. 2876 was used as the standard barometer throughout. A comparison made by Mr. PACKARD in 1909



THE AXIAL MICROSCOPE

[As used for measuring pivot irregularities]



THE 6-INCH TRANSIT CIRCLE

[Viewed from the northeast]

with a standard barometer at the United States Weather Bureau indicated that No. 2876 required no corrections. The thermometers in use were: (1) Green No. 9361, placed in the thermometer shelter on the north side of the building; (2) Green No. 8795, mounted a few feet over the instrument and a little east of the meridian; (3) Green No. 8793, mounted in the shutter opening of the roof; and (4) a wet-bulb thermometer, located in the shelter. The corrections to the first three thermometers, as determined by the United States Bureau of Standards, are as follows:

Thermometer Readings	Corrections			Thermometer Readings	Corrections		
	Green No. 9361	Green No. 8795	Green No. 8793		Green No. 9361	Green No. 8795	Green No. 8793
°	°	°	°	°	°	°	°
−30 C.	----	+0.05	+0.05	+20 C.	−0.10	−0.12	−0.10
−18	----	−0.05	−0.05	+30	−0.05	−0.08	−0.08
−11	----	−0.10	0.00	+40	----	−0.08	−0.06
0	0.00	−0.04	−0.06	+50	----	+0.02	−0.04
+10	−0.10	−0.14	−0.12				

In determining the temperature of the air for use in computing the refractions, Green No. 9361 was used during 1909 and 1910; Green No. 8795 from 1911 to 1918. The former is designated as the external thermometer, the latter as the instrument thermometer.

Spirit level.—Pessler level vial No. 37576 was used until November 11, 1909, when it was replaced by a new one, Pessler No. 323407, which was used until the end of the work. The adopted values of one division of the spirit level used in the reductions are as follows:

Level Vial	Value of 1 Division	Period Used
Pessler No. 37576	0.0595	From Jan. 28, 1909, to July 10, 1909.
Pessler No. 37576	0.0620	From Sept. 22, 1909, to Nov. 11, 1909.
Pessler No. 323407	0.0770 at 65° F. 0.0731 at 30° F. 0.0774 at 10° F.	From Dec. 5, 1909, to Nov. 26, 1910.
Pessler No. 323407	0.0730	From May 15, 1911, to end of the work.

DETAILS OF OBSERVING

Period 1909–1910.—All transits, except a few of Polaris, were observed over 10 contacts by following each star with a pair of double threads approximately 9″ apart. Before April 1, 1909, Polaris was observed by setting the micrometer on the middle of each contact and noting the time, by the eye and ear method, when the star passed each thread of the movable doubles. After April 1, 1909, Polaris was observed in the same manner as the other stars.

The pointings in declination were made by moving the telescope with the tangent screw until the star bisected the space between the two fixed horizontal threads approximately 8″.5 apart. When the observer had an assistant, one bisection in declination was made before the transit and Circle A was read by the assistant; after the transit, another bisection was made and Circle B was read by the observer. When there was no assistant, one bisection was made and Circle A only was read.

After the installation of a reversing prism on the instrument in April, 1910, observations were made with the prism in the direct and reverse positions on alternate nights.

Circle A was kept in a fixed position while Circle B was rotated by 11° 2′ after each night's observations. The micrometer and objective were interchanged in October, 1910.

A complete set of constants was determined at the beginning and end of each night's work and at intervening intervals of about three hours. This consisted of determining the collimation constant by means of the horizontal collimators, the level constant by means of the spirit level, and also by readings over the mercury, the azimuth constant by readings on the north and south marks, and the zenith point correction by readings over the mercury. The barometer and the wet-bulb thermometer were read about once an hour; the external thermometer at intervals of about 20 minutes.

Period 1911–1918.—All observations were made with the reversing prism in two positions—direct and reverse. Except for stars within a few degrees of the pole the transits were observed over two sets of contacts giving either 19 or 20 registrations on the chronograph. For the three close circumpolars, α Ursæ Minoris, λ Ursæ Minoris, and Groombridge 1119, the transits were observed by setting the movable double threads on the star and noting the time on the chronograph with a hand key. The transits of other stars near the pole were observed in the regular manner, but over only one group of contacts, reversing the prism in the middle of the set.

Two bisections in declination were made with the movable zenith distance micrometer threads approximately 5″.8 apart. Circle A only was used and, except in observations of the Sun, each microscope was set on two adjacent divisions of the circle, using two pairs of threads distant two and one-half revolutions from each other.

The level and zenith point corrections were determined every three hours from readings over the mercury, the azimuth correction every three hours from readings on the marks, and the collimation constant every six hours from readings on the horizontal collimators. Spirit-level determinations, though not used in the reductions, were made twice a day.

During the winter months, 1911–1916, the instrument was in continuous use throughout the day, in clear weather, with the exception of the afternoon. The work on each day was divided between two observers. During the summer months a single observer made all the observations on each day, which covered the forenoon and about seven hours at night, and in addition, Polaris was observed at both culminations. In observing the Sun, an assistant was required to read the microscopes and the circle was read on only one set of divisions. For other observations there was no assistant. During the last two years observations were made in the afternoon as well as in the forenoon. No observations, however, were made between midnight and 8 o'clock in the morning except such as were necessary for the determination of the azimuth.

When necessary, screens were used on stars to keep the apparent magnitudes between the limits 5.0 and 8.0.

The barometer and the thermometer in the slit of the roof were read every hour; the external thermometer and the instrument thermometer were read every 15 or 20 minutes. The instrument was reversed at frequent intervals, usually twice a month.

The pivot irregularities were measured with the axial microscope every two years; the horizontal flexure was determined every two months and the vertical flexure every six months. During each year a selected list of stars, from 60° zenith distance north to 60° zenith distance south, was observed direct and reflected in declination, and, in addition, about 100 reflected observations in declination were made of circumpolar stars for a determination of the latitude.

The micrometer and objective were interchanged and Circle A shifted twice, once in October, 1913, and again in June, 1917. The instrument is said to be in Position I from February 6, 1909, to October 11, 1910; in Position II from October 11, 1910, to October 6, 1913; in Position I from October 6, 1913, to June 11, 1917; and in Position II from June 11, 1917, to August 16, 1918.

The two limbs of the Sun were observed in right ascension and the two in declination. The center of the illuminated disk of Mercury and the bright limb of Venus were usually observed.

RIGHT ASCENSIONS

The value of one revolution of the right ascension micrometer screw, used in reducing the instrumental constants and in determining the time of transit of very close circumpolars, was determined in June, 1909, from observations of α Ursæ Minoris and certain other stars of declinations greater than 50°. The adopted value is:

1 revolution = 3ˢ.802

The periodic and progressive errors of this screw were measured with the Stackpole comparator in February and March, 1911; again in September and October, 1913; and again in June, 1917. Designating the middle of the field as 10 revolutions, the results of these measures are:

Progressive Errors of the Right Ascension Micrometer Screw

Year \ Rev.	3–4	4–5	5–6	6–7	7–8	8–9	9–10
	s	s	s	■	s	s	■
1911	0. 000	0. 000	+0. 001	0. 000	+0. 002	+0. 001	0. 000
1913	0. 000	+0. 002	0. 000	−0. 001	−0. 004	+0. 002	+0. 002
1917	----	----	----	+0. 004	+0. 002	+0. 001	0. 000

Year \ Rev.	10–11	11–12	12–13	13–14	14–15	15–16
	■	s	■	s	s	s
1911	0. 000	0. 000	0. 000	−0. 001	−0. 001	−0. 001
1913	0. 000	0. 000	−0. 002	−0. 002	−0. 002	+0. 002
1917	+0. 004	−0. 004	−0. 004	−0. 002	----	----

Periodic Errors of the Right Ascension Micrometer Screw

$$\Delta = -0^s.0002 \cos u - 0^s.0003 \sin u + 0^s.0002 \cos 2u + 0^s.0000 \sin 2u \quad (1911)$$
$$= -0^s.0003 \cos u - 0^s.0012 \sin u + 0^s.0000 \cos 2u + 0^s.0001 \sin 2u \quad (1913)$$
$$= +0^s.0008 \cos u - 0^s.0007 \sin u + 0^s.0000 \cos 2u + 0^s.0003 \sin 2u \quad (1917)$$

In the above expressions, u is the decimal of a revolution in angular measure. No corrections have been applied to the reductions for either progressive or periodic errors of this screw.

Reduction to the middle of the contacts.—The readings of the micrometer which correspond to the beginning and ending of each of the five platinum contacts have been determined at frequent intervals by slowly turning the micrometer screw until a signal is made and then interrupted. The readings of the head were noted and were found to remain practically constant. The collimation constant and the observed transits have all been referred to a line of collimation defined by an imaginary thread at the center of the field and corresponding to a micrometer reading of 10.001 revolutions. This value is the mean of the beginning and ending of the 20 signals which are usually recorded in observing the transit of a star. Since the beginnings of the signals are read from the chronograph sheet, a correction $+0^s.032 \sec \delta$ has been applied to each transit to reduce to the middle of the signals. Except for a short time at the beginning of the work, this correction has been applied with the collimation constant.

THE INEQUALITY AND IRREGULARITIES OF THE PIVOTS

Spherometer caliper measures.—In the latter part of 1908 a series of measures of the new pivots was made with a spherometer caliper. Measurements were made along eight diameters of each pivot at intervals of $22\frac{1}{2}°$. The difference between the readings along corresponding diameters of the two pivots multiplied by $\frac{\sin v}{1+\sin v}$, where v is one-half the angle of the V's of the caliper, is a measure of the difference between the radii of the pivots, assuming that the latter are true cylinders. Since measures were made at both ends of each diameter, 16 different radii in all were compared. The results are given in the following table:

Differences Between the Caliper Measures of the Pivots, in the Sense Clamp Pivot Minus Pivot Opposite the Clamp

[The unit is a millionth of an inch]

Position of Axis	Observer				Mean
	Updegraff	Hammond	Tillyer	Packard	
1	+ 2	+ 8	− 2	+20	+ 7
2	--	--	− 7	−30	−18
3	+ 8	+ 4	0	+ 4	+ 4
4	--	--	− 9	+ 9	0
5	0	+ 5	+ 4	+ 3	+ 3
6	--	--	−16	+17	0
7	+ 9	− 4	− 7	+34	+ 8
8	--	--	− 8	−16	−12
9	+31	+20	+10	+32	+23
10	--	--	+ 6	+18	+12
11	+ 7	− 2	− 4	−43	−10
12	--	--	0	− 2	− 1
13	+ 1	− 9	− 9	0	− 4
14	--	--	− 5	+2	− 2
15	+ 4	− 5	+ 9	−10	0
16	--	--	− 8	− 1	− 4
Mean	+ 8	+ 2	− 3	+ 2	--

The mean of all the 48 measures is $+0^{in}.0000015$.

If r=radius of the clamp pivot,
r'=radius of the pivot opposite the clamp,
we have, since $2v=90°$ approximately,
$r-r'=+0^{in}.000001$.

During the 1911–1916 work the level of the instrument was determined before and after each reversal. These measures afford an accurate means of deriving the difference in radii of the pivots.

If B, B'=the inclinations of the axis as derived with the spirit level for clamp west and clamp east, respectively,
p=the correction to the measured inclination, positive clamp west
$2i$=the angle of the V's of the level frame=90° approximately,
L=the distance between the V's of the level frame=$34^{in}.6$,

then $$p=\frac{B'-B}{4}$$

and $r'-r=L \sin i \sin p$.

Ninety reversals of the instrument give $B'-B=-0^{s}.037$.

Hence $p=-0^{s}.009$

and $r-r'=+0^{in}.000016$.

Axial collimator measures.—The following table gives the results of two series of measures with the axial collimator in April, 1909, and in March, 1910. The instrument was in Position I and the argument in the first column is the zenith distance south of the objective for Position I.

Corrections to the Azimuth and Level Constants, Clamp East, for Irregularities of the Pivots

[From measures with the axial collimator]

Z. D. S. of Objective for Position I	Azimuth		Level		Z. D. S. of Objective for Position I	Azimuth		Level	
	1909	1910	1909	1910		1909	1910	1909	1910
°	s	s	s	s	°	s	s	s	s
0	+0.004	0.000	0.000	−0.002	190	0.000	+0.002	−0.001	0.000
10	+.002	−.005	+.003	−.002	200	+.002	+.005	+.002	.000
20	+.003	−.003	+.004	−.002	210	+.003	+.005	−.002	−.007
30	+.001	+.009	+.002	+.004	220	+.002	−.002	.000	−.007
40	.000	+.009	+.002	+.003	230	+.002	−.006	.000	−.002
50	−.004	+.005	−.002	+.004	240	−.002	−.004	−.004	−.003
60	−.004	−.002	−.004	+.003	250	−.004	−.002	−.001	+.002
70	−.002	.000	−.003	−.001	260	.000	+.001	−.004	+.001
80	.000	−.002	−.003	−.001	270	−.002	.000	+.004	+.004
90	−.003	−.002	−.002	.000	280	.000	+.001	+.002	+.005
100	−.002	−.006	−.004	−.001	290	−.001	+.001	+.002	+.006
110	−.002	−.006	.000	+.001	300	−.001	+.001	−.003	+.003
120	+.002	−.005	+.004	−.004	310	−.002	−.002	−.004	.000
130	.000	−.004	+.004	+.003	320	−.002	−.003	−.002	−.002
140	.000	−.002	+.002	+.002	330	.000	−.005	+.002	−.003
150	+.003	+.003	+.002	+.001	340	+.005	.000	+.001	−.003
160	+.001	+.006	−.001	−.005	350	+.002	+.001	+.001	−.003
170	+.002	+.004	+.001	+.003	0	+.004	.000	.000	−.002
180	+.002	+.003	+.002	+.006					

Axial microscope measures.—The results of four series of measures of the pivots with the axial microscope in 1911, 1912, 1913, and 1916 are given in the following table. The instrument was in Position II for the first three series of measures and in Position I for the last series. The argument in the first column is the same as in the preceding table, so that the corrections for any argument correspond to the same position of the axis and are directly comparable.

Corrections to the Azimuth and Level Constants, Clamp East, for Irregularities of the Pivots

[From measures with the axial microscope]

Z. D. S. of Objective for Position I	Azimuth				Level			
	1911	1912	1913	1916	1911	1912	1913	1916
°	s	s	s	s	s	s	s	s
0	−0.002	+0.001	+0.002	−0.001	−0.001	−0.002	0.000	0.000
10	−.004	−.002	−.002	−.004	.000	−.001	+.001	+.001
20	−.003	−.002	−.002	−.004	+.002	+.002	+.002	+.001
30	−.003	−.004	−.003	−.004	+.003	+.006	+.003	+.003
40	−.003	−.005	−.005	−.005	+.001	+.002	+.002	+.003
50	−.002	−.002	−.003	−.002	.000	−.001	.000	.000
60	.000	+.001	.000	−.001	−.003	−.003	−.003	−.003
70	+.002	+.002	.000	+.001	−.002	−.002	−.002	−.002
80	−.001	.000	.000	.000	−.002	−.002	−.002	−.002
90	.000	−.001	.000	+.001	−.001	−.001	+.001	.000
100	+.004	+.004	+.004	+.004	.000	−.002	.000	.000
110	+.002	+.003	+.003	+.005	+.002	+.002	+.001	+.001
120	+.004	+.004	+.004	+.004	+.003	+.005	+.004	+.003
130	+.002	+.005	+.004	+.003	+.002	+.004	+.004	+.004
140	+.001	+.001	+.001	+.002	.000	.000	.000	.000
150	.000	.000	.000	+.001	−.001	−.004	−.003	−.002
160	−.002	−.003	−.002	.000	−.002	−.001	−.003	−.002
170	.000	−.002	−.002	−.002	.000	−.002	−.002	.000
180	−.002	.000	−.002	−.004	.000	−.001	+.002	.000
190	−.003	−.003	−.003	−.004	.000	.000	−.001	−.001
200	−.002	−.002	.000	−.005	+.001	.000	.000	.000
210	−.001	−.001	−.001	−.003	+.001	+.002	−.001	+.002
220	.000	+.002	+.002	.000	.000	+.001	.000	.000
230	.000	.000	.000	.000	.000	.000	.000	−.001
240	−.001	−.001	−.001	−.001	.000	−.002	−.002	.000
250	−.002	−.001	−.002	−.001	+.002	+.002	+.001	.000
260	+.001	.000	−.001	+.001	−.002	−.001	−.001	.000
270	.000	+.002	.000	+.002	−.003	−.001	+.004	+.002
280	+.003	+.003	+.001	+.004	−.001	+.001	+.002	.000
290	+.002	+.002	+.002	+.004	+.001	.000	+.001	.000
300	+.001	.000	+.001	+.002	+.002	+.002	+.002	+.001
310	+.002	+.001	+.003	+.001	+.001	.000	−.001	−.002
320	+.001	.000	+.001	+.001	.000	−.002	−.002	−.002
330	+.002	+.001	+.003	+.002	+.001	−.001	−.003	−.001
340	+.001	.000	+.001	+.002	+.001	+.003	+.001	.000
350	+.001	+.001	+.001	+.001	−.003	−.002	−.002	.000
0	−.002	+.001	+.002	−.001	−.001	−.002	.000	.000

These measures show that any errors introduced in the right ascensions by irregularities of the pivots would be inappreciable and no corrections for them have been applied.

The axial microscope affords a method of measuring the difference between the radii of the pivots. If the micrometer of the microscope be placed at an angle of 45° to the vertical, its screw will be perpendicular to the plane of one of the wyes of the instrument and parallel to the plane of the other. By making measures on a spot in one of the pivots, we can determine the micrometer reading of the

center of that pivot on the assumption that it is a true cylinder. Then if we reverse the instrument and make similar measures on the other pivot, without disturbing the microscope, we will derive the micrometer reading of the center of this pivot, referred to the same origin. The difference between the two readings will give the difference between the radii of the two pivots in revolutions of the screw. Such a determination, made in 1911, gave

$$r-r'=+0^{\text{in}}.000011$$

INSTRUMENTAL CONSTANTS

The observations in right ascension have been reduced by MAYER'S formula

$$\alpha=T+\Delta T+a \sin(\varphi-\delta) \sec\delta+b \cos(\varphi-\delta) \sec\delta+c' \sec\delta$$

where φ is the latitude of the instrument, a and b the azimuth and level constants, and c' the collimation constant plus certain corrections explained below.

Collimation constant.—The collimation constant has been determined in the usual way, by means of the horizontal collimators, at intervals of six or seven hours during any tour of observing. In the period 1911–1916, the collimation was also determined before and after each reversal. The values of the collimation determined by reversal on each collimator have been found to agree in general with those found from the collimators without reversal.

As previously stated, the collimation constant, c, has been derived for an imaginary mean thread corresponding to a micrometer reading of 10.001 revolutions which is the mean of the readings of the beginning and ending of the signals usually recorded. The value of c' which was used is

$$c'=c-0^{\text{s}}.016\pm0^{\text{s}}.032$$

where $0^{\text{s}}.016$ $(=0^{\text{s}}.021 \cos\varphi)$ is the correction for diurnal aberration and $0^{\text{s}}.032$ is the correction to reduce to the middle of the signals. The positive sign is for stars at upper culmination and the negative sign for stars at lower.

Level constant.—In the period 1911–1918, the adopted value of the level constant is always that resulting from observations over the mercury. These nadir levels were taken at intervals of three hours during a tour of observing. Spirit-level determinations were made twice only on each observing day and during reversals of the instrument.

In the earlier work, 1909–1910, both spirit and nadir levels were observed regularly at intervals of three hours during the observing tours. In order to make the earlier and later work homogeneous, the former has also been reduced on the basis of the nadir level by applying corrections to the spirit-level determinations to reduce to the nadir levels and then combining the two sets.

The corrections applied to the spirit levels are the ones actually deduced from a discussion of all the nadir and spirit levels taken during 1909–1910. The following table gives these corrections:

Corrections to the Spirit Levels to Reduce to the System of Nadir Levels

Period	Clamp		Pos. of Inst.	Value of 1 Division of Spirit Level
	East	West		
	s	s		s
From 1909, Jan. 31, to 1909, May 29	+0.006	+0.020	I	0.0595.
From 1909, Sept. 22, to 1909, Nov. 11	−0.010	+0.001	I	0.0620.
From 1909, Nov. 27, to 1910, Oct. 10	−0.017	0.000	I	Varying from 0s.0770 to 0s.0730 depending on the temperature.
From 1910, Oct. 10, to 1910, Nov. 26	−0.011	+0.006	II	Varying from 0s.0770 to 0s.0730 depending on the temperature.

Azimuth constant.—The azimuth constant, a, has been determined from readings on the north and south marks at intervals of three hours during observations. The mean of the two values of a, derived from simultaneous readings on the two marks, has been adopted as the azimuth constant for that time.

VARIATIONS OF THE INSTRUMENTAL CONSTANTS WITH CHANGES OF TEMPERATURE

The annual variations in the level and azimuth constants depending upon changes in temperature are shown in the accompanying diagram for the years 1911 to 1916. (Fig. 2.) In constructing the diagram, the means of the values of the two constants from night observations only were formed for each month, together with the corresponding mean of the temperatures. Corrections were applied to the values as determined clamp east to reduce them to the basis clamp west. These corrections were—

Position	(W−E)	
	Level	Azimuth
	s	s
II	+0.040	+0.053
I	+0.072	+0.135

The frequent adjustments of the stellar focus produced changes in the collimation which prevented an accurate determination of the annual variation of this constant.

The diagram shows an annual variation in the level constant amounting to 0s.3 or 0s.4, with a progressive change of about 0s.15 during the five years. The maximum and minimum values follow about three months after the temperature has passed through such a phase. The curve is, in general, somewhat steeper when passing from a maximum to a minimum, indicating that the change in the level constant is more rapid in the winter than in the summer.

The azimuth constant has an annual variation of $0^s.1$ or $0^s.2$, with a progressive change of about $0^s.35$ in the five years. The curve is steeper from minimum

FIGURE 2.—*Diagram Showing Annual Variation of the Level and Azimuth Constants with Change of Temperature, 1911–1916*

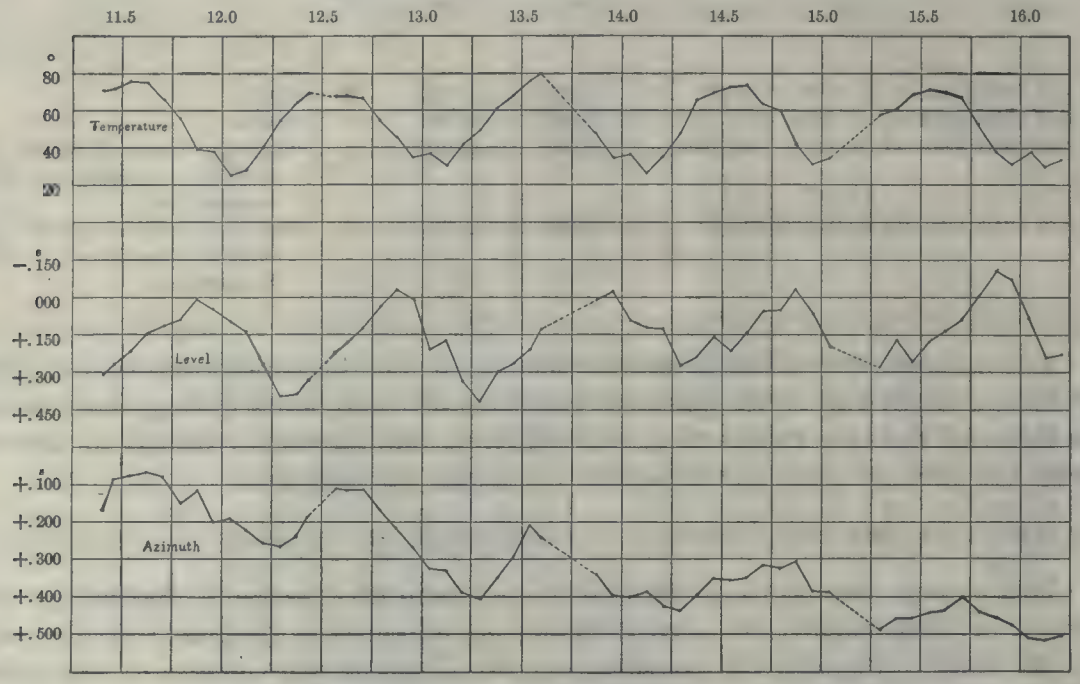
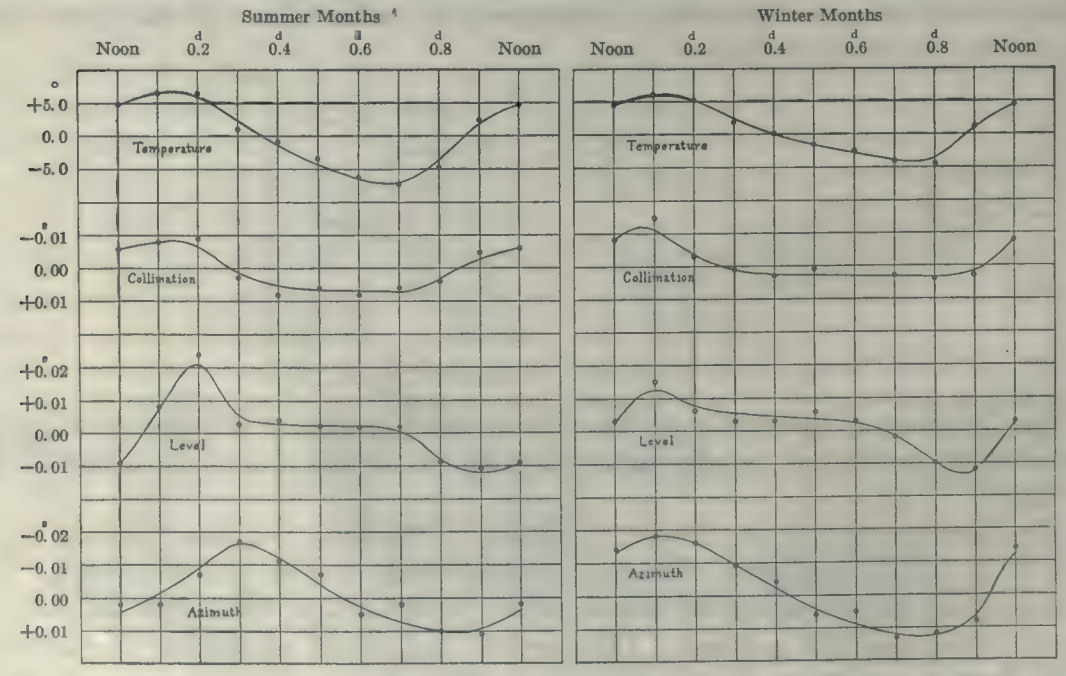


FIGURE 3.—*Average Daily Variation of the Collimation, Level, and Azimuth Constants with Change of Temperature*



to maximum, indicating a more rapid change in the azimuth constant in the summer. The maximum is reached perhaps a month after the temperature maximum, while the minimum lags about three months behind the temperature.

The average daily variations of the collimation, level, and azimuth constants were derived in both summer and winter by selecting a number of days in each season when the constants were determined at frequent intervals covering a period of 24 hours. (Fig. 3.) The mean of the determinations of each constant for a day was subtracted from the individual values, the temperature being treated in the same manner.

The collimation constant varies less than $0^s.02$ in a day. The curve follows the temperature curve closely in the daylight hours but remains practically constant during the night.

The daily variation in the level constant is about $0^s.03$. This curve reaches a maximum in the middle of the afternoon about an hour after the maximum temperature, drops rapidly until sunset, and remains practically constant during the night. Near sunrise it drops again, reaching a minimum three or four hours after the minimum temperature. It then rises uniformly to the maximum in the afternoon.

The azimuth constant varies about $0^s.03$ in a day. The curve in general follows the temperature curve, with a lag of about four hours in the summer and one hour in the winter.

Since the instrument has been mounted on brick piers which are incased in wood, its stability in level and azimuth has been highly satisfactory.

THE AZIMUTHS OF THE MARKS

The azimuths of the marks were determined from observations of the close circumpolar stars whose daily ephemerides are given in the American Ephemeris. During 1909–1910 the azimuth stars were not generally observed at successive upper and lower culminations. For this period the azimuths of the marks were deduced from observations at one culmination by applying corrections to the right ascensions of the azimuth stars deduced from the 1911–1918 work. During the period 1911–1918 these azimuth stars were observed at successive upper and lower culminations when possible, and the adopted azimuths of the marks used in the reductions were derived by balancing the observations, for short periods of about one month, above and below pole for each observer. In the months from September to April, inclusive, two such azimuth stars were observed between 5 and 7 a. m. and again between 5 and 7 p. m. In the months from May to August, inclusive, the azimuths of the marks depend on the observations of α Ursæ Minoris made whenever possible at upper and lower culminations.

The north mark remained practically constant for periods of one month or even longer, but the south mark showed rapid and progressive changes.

The adopted azimuths of the marks, deduced in the manner just described and used in the determination of the azimuth constants, are printed in Table V under the headings A_N and A_S. In the period 1911–1918 the method of balancing the observations above and below pole for the different observers did not allow the assignment of equal weights to the individual observations. After corrections to the right ascensions of the Ephemeris stars had been derived from the observations, the azimuths of the marks were recomputed with these corrections applied to the positions of the clock and azimuth stars. New means were then formed for each period with equal weight assigned to each observation. These means are given in Table V under the headings A'_N and A'_S.

The latter values differ by only small amounts from the ones first derived and it was considered unnecessary to make any changes in the values of the azimuth constants derived from A_N and A_S and used in all the reductions.

In order to investigate the variation of the marks during the day, the adopted values of the azimuth of the marks for each period were subtracted from the individual values and the results for the morning and for the evening were collected separately. The means were taken for each month and the differences, morning minus evening, were formed. These differences for the months September to April, when azimuth stars were observed in the morning and evening, are given in the following table:

Differences Between Observed Azimuths of Marks in the Sense Morning Minus Evening

[From observations made between 5^h–7^h a. m. and 5^h–7^h p. m.]

Month	North Mark	South Mark	Month	North Mark	South Mark
	s	s		s	s
January	−0. 005	+0. 003	September	+0. 008	+0. 006
February	+0. 004	+0. 006	October	−0. 001	−0. 006
March	−0. 012	−0. 007	November	0. 000	+0. 002
April	−0. 012	−0. 001	December	−0. 003	−0. 011

Similar differences were formed for Polaris, which was observed throughout the year, and these differences were taken in the sense day minus night from March to November. The observations of Polaris were included in the means with the other azimuth stars in December, January, and February. The results follow:

Differences Between the Azimuths of the Marks from Observations of Polaris in the Sense Day Minus Night

Month	North Mark	South Mark	Day Culmination	Month	North Mark	South Mark	Day Culmination
	s	s			s	s	
Mar	+0. 006	+0. 012	In Afternoon.	Aug	−0. 026	−0. 019	In Afternoon.
Apr	+0. 014	0. 000	Near Noon.	Sept	−0. 024	−0. 030	In Afternoon.
May	+0. 014	+0. 006	In Morning.	Oct	−0. 029	−0. 019	Near Noon.
June	[1]+0. 024	[1]+0. 017	Both in Daylight.	Nov	−0. 003	−0. 016	In Morning.
July	[1]+0. 024	[1]+0. 010	Both in Daylight.				

[1] Differences taken in the sense morning minus evening.

Apart from the progressive change in the azimuth of the south mark, which has been taken account of, there is little evidence of an appreciable diurnal variation of the marks.

PERSONAL EQUATION IN RIGHT ASCENSION

Results with the personal equation machine.—The absolute personal equations of the five observers who took part in the work after July, 1911, were determined with the personal equation machine. The results obtained for different declinations are given in the following table, the signs being such as to make them applicable to observed transits:

Corrections to the Observed Transit of a Star for Absolute Personal Equation

Decln. \ Observer	Hammond	Frederick-son	Rines	Wylie	Aston
°	s	s	s	s	s
0	−0. 018	−0. 026	−0. 012	−0. 011	−0. 021
40	−0. 012	−0. 023	−0. 011	−0. 006	−0. 013
60	−0. 011	−0. 021	−0. 008	−0. 001	−0. 007
80	−0. 02	−0. 01	0. 00	+0. 02	+0. 02
85	−0. 02	+0. 01	+0. 02	+0. 05	+0. 06
89	−0. 30	−0. 25	−0. 35	−0. 05	−0. 65

The observations for declination 89° were made by reading on the artificial star with the micrometer and noting the time on the chronograph with a key. The results are therefore not comparable with the others. For declinations 0° to 60°, each observer was a little late in observing the transit of a star, the amount not varying much for the different observers. For declinations 80° and greater, there is evidence of a tendency on the part of some observers to get ahead of the star. The evidence on this point is not conclusive, as the personal equations for these large declinations are not as well determined as the others.

The absolute personal equations in observing the Sun were determined for four observers by attaching a brightly illuminated disk, representing the Sun, to the carriage of the personal equation machine in place of the star. The results follow:

Corrections to the Observed Transits of the Sun for Absolute Personal Equation

Hammond	Frederick-son	Wylie	Aston
s	s	s	s
−0. 016	−0. 037	−0. 031	−0. 023

These corrections are about of the same magnitude as those for stars of the same declination.

Relative personal equation from observations of clock stars.—The relative personal equations of the various observers were derived from observations of the clock stars by taking the clock correction of one observer and carrying it forward by means of the clock rate to the clock correction as determined by some other observer. In no case was this done where the interval exceeded 24 hours, so that any small error in the adopted rate will not affect the result appreciably.

Corrections to the Observed Times of Transit of Clock Stars for Relative Personal Equation to Reduce to the System Hammond

1909–1910		1911–1918			
Updegraff	Tillyer	Frederick-son	Rines	Wylie	Aston
s	s	s	s	s	s
−0. 037	−0. 041	−0. 007	−0. 021	+0. 005	+0. 005

There was no evidence of change in the relative personal equations of the various observers in different years. In 1909–1910 there was no reversing prism in use, and the observations are affected by bisection errors in estimating the center of the double threads.

The resulting values of relative personality with respect to HAMMOND, as derived from observations with the personal equation machine for stars of 10° declination, corresponding to the mean declination of the clock stars, are:

$$\begin{aligned} T_{Hd} - T_{Fn} &= -0^s.009 \\ T_{Hd} - T_{R} &= +0^s.004 \\ T_{Hd} - T_{Wy} &= +0^s.006 \\ T_{Hd} - T_{An} &= -0^s.003 \end{aligned}$$

The agreement is good except in the case of RINES, whose absolute personal equation is based on but few determinations. It should be noted that the relative personal equations, as derived from clock corrections, are affected by peculiarities in the determination of the instrumental constants.

Magnitude equation.—In the 1909–1910 work, screens were not used in the regular observing and the instrument was not equipped with a reversing prism. Since the bisection error would be different for a bright star than for a faint one, it follows that the magnitude equation for this period would be quite different from that in later years. There is not sufficient material available to determine the magnitude equations of the observers for this period.

Since 1911 the instrument has been equipped with a reversing prism and also with two screens by which the magnitude of every star observed was reduced to some magnitude between 5.0 and 8.0. It was only necessary, therefore, to determine the magnitude equation for a range of three magnitudes between these limits. This was done with considerable accuracy for three observers, with the following results:

Magnitude Equation for a Range of Three Magnitudes Between 5.0 and 8.0 in the Sense Bright Minus Faint

Hammond	Frederick-son	Wylie
$0^s.000$	$0^s.000$	$-0^s.001$

It may be safely said that the magnitude equation with a self-registering micrometer equipped with a reversing prism, used direct and reverse on every transit, is negligible between the fifth and eighth magnitudes for any observer. No corrections therefore have been applied for magnitude equation.

Relative personal equation derived from a comparison of observations of the standard stars.—All the observations of the standard stars, made by any observer, were in general reduced with clock corrections and constants determined by himself. From these observations the differences between the various observers were deduced. In doing this, the two positions of the clamp were kept separate and the comparisons were made in zones 10° wide in declination. These differences, which are small, must be due to peculiarities in the determination of the instrumental constants, combined perhaps with a variation in absolute personal equation with the declination.

From these differences corrections were derived to reduce the results of each observer to the system HAMMOND. These corrections were negligible for all observers except WYLIE and ASTON. Table II gives the corrections which were applied to the observed right ascensions of WYLIE and ASTON. All observations made by ASTON of stars north of 85° declination, except those made by setting the micrometer, were discarded on account of lack of material from which to determine these corrections.

CLOCK CORRECTIONS AND RATES

In reducing the observations made from 1909 to 1918, 129 clock stars were used. Of these, 54 were used in 1909 and 1910, 97 in the period 1911 to 1916, and 73 in the period 1916 to 1918.

Preliminary clock corrections.—In deriving the preliminary clock corrections, NEWCOMB's positions of the clock stars were used with certain corrections. The corrections for the period 1911 to 1918 were those determined with the 9-inch transit circle 1903 to 1911, Volume IX, Part I, Publications of the United States Naval Observatory, Second Series. In the 1909–1910 work, the corrections were derived from the results of the 1911–1918 program. The means of the day and night clock corrections were taken separately, the dividing lines between day and night being 20 minutes before sunrise and 20 minutes after sunset.

Preliminary clock rates.—In general, preliminary rates were derived from observations of the same observer at night, separated by an interval of from two to nine days, the usual interval being three days. In a few cases in the 1916–1918 work preliminary rates were based on observations of different observers uncorrected for relative personal equation.

Relative personal equation affecting clock corrections.—In the following discussion, whenever it was necessary to combine clock corrections determined by different observers, corrections were applied for relative personal equation. These corrections are based upon a discussion of the clock corrections as previously described, combined with results obtained with the personal equation machine.

Corrections for Relative Personal Equation Applicable to Clock Corrections to Reduce to the System Hammond

1909–1910		1911–1918				
Updegraff	Tillyer	Tillyer	Frederick-son	Rines	Wylie	Aston
s +0. 037	s +0. 041	s −0. 013	s +0. 008	s +0. 013	s −0. 006	s −0. 002

The rather large values for UPDEGRAFF and TILLYER in 1909–1910 are due to the fact that no reversing prism was used at that time.

Variation of clock corrections with the declination.—The variation with the declination was determined by comparing the clock corrections derived from the individual stars with a mean clock correction derived from certain reference stars between 0° and +10° declination. The means of the resulting corrections for the various stars were formed, arranged in order of declination, and plotted. The adopted values were scaled from these curves. The work was divided into periods during which the micrometer and objective were not interchanged. In addition to the interchange of ends, on several occasions the micrometer was removed for

various purposes and replaced in the same position. An investigation was made to determine if there was any change in the variation at such times. No appreciable change was found except at the removal of the micrometer on March 10, 1915. The period October 6, 1913, to May 18, 1916, the latter date being the end of the 1911–1916 program, was therefore broken at March 10, 1915. The results are given in the following table:

Corrections to the Clock Corrections for the Variation with the Declination. Signs are for Clamp East

δ	Feb. 6, 1909, to Jan. 16, 1910, Position I	May 15, 1911, to Oct. 6, 1913, Position II	Oct. 6, 1913, to Mar. 10, 1915, Position I	Mar. 10, 1915, to May 18, 1916, Position I	May 18, 1916, to June 11, 1917, Position I	June 11, 1917, to Aug. 16, 1918, Position II
°	s	s	s	s	s	s
+40	+0.015	+0.018	+0.058	+0.073	+0.050	+0.051
+35	+0.013	+0.017	+0.054	+0.068	+0.048	+0.049
+30	+0.010	+0.015	+0.044	+0.058	+0.044	+0.044
+25	+0.008	+0.012	+0.035	+0.046	+0.037	+0.038
+20	+0.005	+0.009	+0.025	+0.034	+0.029	+0.030
+15	+0.003	+0.005	+0.016	+0.022	+0.018	+0.020
+10	0.000	+0.001	+0.006	+0.010	+0.007	+0.009
+ 5	−0.002	−0.002	−0.002	0.000	−0.003	0.000
0	−0.005	−0.006	−0.011	−0.011	−0.012	−0.009
− 5	−0.007	−0.010	−0.019	−0.020	−0.020	−0.016
−10	−0.010	−0.013	−0.025	−0.029	−0.028	−0.023
−15	−0.012	−0.016	−0.030	−0.036	−0.034	−0.028
−20	−0.015	−0.018	−0.033	−0.042	−0.040	−0.032
−25	−0.018	−0.020	−0.036	−0.046	−0.045	−0.036
−30	-----	−0.022	−0.038	−0.049	−0.049	−0.037

Effect of reversal on clock corrections.—All reversals were selected where clock corrections were determined shortly before and after reversal. Corrections for relative personal equation and for variation of clock correction with the declination were applied, and the preliminary clock rates were used. There was insufficient material in the 1909–1910 and 1917–1918 periods for this investigation.

Corrections to be Applied to Clock Corrections in One Position of the Clamp to Reduce Them to the Mean of Both

Period	Position	Clamp East	Clamp West
		s	s
May 15, 1911–July 15, 1913	II	−0.006	+0.006
Nov. 3, 1913–June 5, 1917	I	−0.054	+0.054

Adopted clock rates.—The final values of the observed clock rates were computed after the clock corrections had been corrected for the variation with the declination. Clock corrections separated by an interval of three or four days were generally used. When the rate was deduced from clock corrections by different observers, a correction for relative personal equation was applied; and when there was a change of clamp, the corrections given in the above table were used.

As the standard clock was frequently compared with the other two clocks in the vault, it was possible to deduce the rates of the latter clocks. The observed hourly rates of all three clocks are given in the following table:

The Observed Hourly Rates of the Riefler Sidereal Clocks

Date	Sidereal Interval	Hourly Rates		
		No. 60	No. 70	No. 151
No. 70 Standard				
1909	d	s	s	s
Feb. 7.3	2.0		+0.0042	+0.0021
9.8	3.0		.0048	.0017
13.8	5.0		.0035	.0016
17.3	2.0		.0039	.0017
22.8	5.0		.0029	.0016
26.8	3.0		.0016	+ .0007
Mar. 2.8	5.0		.0025	− .0005
7.3	4.0		.0016	
9.3	4.0		.0019	
13.3	4.2		.0017	
16.8	3.0		.0018	
20.3	4.0		.0011	
24.9	3.0	(1)	.0014	(2)
25.9	5.0		.0012	
28.4	4.0		.0004	
29.9	3.0		.0006	
Apr. 1.4	4.0		.0014	
May 7.4	4.0		.0031	
11.4	4.0		.0033	
15.9	3.0		.0032	
20.9	5.0		.0024	
Sept. 26.4	4.0		.0060	
30.0	3.0		.0058	− .0184
Oct. 2.0	2.8		.0069	.0178
6.0	3.0		.0056	.0194
10.4	4.1		.0077	− .0179
14.4	4.0		.0074	(3)
18.0	3.0	+0.0011	.0080	− .0097
21.5	2.0	+ .0027	.0068	− .0113
Dec. 7.0	2.9		.0066	
11.5	6.0		.0095	
17.0	3.3	− .0041	.0068	− .0037
19.0	2.9	.0057	.0073	.0070
22.0	3.1	.0069	.0072	− .0047
1910				
Jan. 2.0	5.0	.0108	.0084	+ .0016
6.0	3.2	.0116	.0092	.0033
8.0	3.0	.0139	.0090	.0062
13.0	4.7	.0175	.0091	.0101
16.0	1.3	− .0126	+ .0077	+ .0087
No. 151 Standard				
Sept. 8.5	2.0	+ .0248	+ .0302	− .0294
14.0	3.0	.0246	.0300	.0291
17.0	1.0	.0247	.0309	.0301
21.0	1.0	.0241	.0303	.0277
25.0	5.0	.0249	.0314	.0294
26.0	1.0	.0254	.0307	.0294
29.9	3.0	+ .0250	+ .0324	− .0294

Date	Sidereal Interval	Hourly Rates		
		No. 60	No. 70	No. 151
No. 151 Standard—Continued				
1910	d	s	s	s
Oct. 3.4	2.0	+0.0243	+0.0321	−0.0290
14.4	4.0	.0236	.0307	.0301
14.9	1.0	.0254	.0258	.0275
19.4	2.0	.0267	.0311	.0289
19.4	6.0	.0258	.0300	.0303
28.9	7.0	.0228	.0281	.0277
Nov. 4.4	8.0	.0224	.0291	.0273
23.3	6.0	+ .0215	+ .0308	− .0277
No. 60 Standard				
1911				
May 16.4	2.0	− .0118	+ .0161	
18.9	3.0	.0093	.0122	− .0143
21.4	2.0	.0105	.0150	.0152
23.9	3.0	.0095	.0167	.0147
27.4	4.0	.0107	.0178	.0166
31.4	4.0	.0102	.0165	.0167
June 4.9	5.0	.0116	.0149	.0183
8.4	2.0	.0119	.0145	.0192
10.4	2.0	.0126	.0164	.0193
12.9	3.0	.0118	.0204	.0191
15.4	2.0	.0123	.0184	.0197
18.4	4.0	.0120	.0186	.0193
21.9	3.1	.0126	.0146	.0207
24.9	3.0	.0129	.0135	.0189
27.9	3.0	.0135	.0179	.0222
30.4	2.0	.0121	.0179	.0192
July 2.4	2.0	.0136	.0088	.0217
4.9	3.0	.0125	.0153	.0201
8.4	4.0	.0145	.0074	.0225
12.4	4.0	.0137	.0097	.0211
15.9	3.0	.0146	.0088	.0225
18.9	3.0	.0149	.0105	.0233
22.4	4.0	.0151	.0138	.0225
26.4	4.0	.0158	.0086	.0240
30.4	4.0	.0160	.0088	.0238
Aug. 3.9	5.0	.0163	.0100	.0234
8.4	4.1	.0159	.0103	.0234
12.9	5.0	.0163	.0138	.0243
16.9	3.0	.0148	.0129	.0237
20.4	4.0	.0161	.0069	.0255
27.4	10.0	.0164	.0056	.0255
Sept. 3.9	5.0	.0168	.0126	.0255
8.9	5.0	.0170	.0120	.0255
12.4	2.0	.0186	.0075	.0269
15.9	5.0	.0167	.0113	.0258
20.4	3.9	.0177	.0099	.0269
24.4	4.1	.0175	.0085	.0270
28.4	4.0	− .0177	+ .0111	− .0266

[1] No. 60 not in use.

[2] No. 151 stopped for cleaning.

[3] Pressure in case of No. 151 increased.

The Observed Hourly Rates of the Riefler Sidereal Clocks—Continued

Date	Sidereal Interval	Hourly Rates		
		No. 60	No. 70	No. 151
		No. 60 Standard—Continued		
1911	d	s	s	s
Oct. 2.4	4.0	−0.0174	+0.0154	−0.0270
5.3	2.0	.0187	.0134	.0244
8.8	5.0	.0173	.0142	.0263
12.3	2.0	.0172	.0161	.0268
14.8	3.1	.0171	.0137	.0268
17.4	1.9	.0175	.0108	.0255
20.8	5.0	.0173	.0095	.0267
24.8	3.0	.0162	.0172	.0265
28.3	4.0	.0160	.0222	.0267
Nov. 1.3	4.0	.0161	.0224	.0270
5.3	4.1	.0153	.0107	.0272
8.8	3.0	.0154	.0096	.0271
11.8	3.0	.0153	.0112	.0275
14.8	3.0	.0156	.0159	.0274
17.8	3.1	.0163	+.0169	.0276
20.9	3.0	.0161		.0274
23.9	3.0	.0164		.0281
27.9	5.0	.0167		.0279
Dec. 2.4	3.9	.0168		.0272
5.9	3.1	.0163	[1]	.0264
9.4	3.8	.0159		.0273
14.4	6.2	.0165		.0276
18.8	2.9	.0170	−.0039	.0279
22.8	5.0	.0167	.0036	.0274
26.8	2.9	.0177	.0043	.0281
31.8	7.2	.0157	.0028	.0275
1912				
Jan. 6.8	5.0	.0162	.0024	.0277
11.3	3.9	.0165	.0039	.0278
14.8	3.1	.0163	.0034	.0247
17.8	3.0	.0146	.0036	.0246
20.8	3.0	.0160	.0031	.0256
23.4	2.1	.0147	.0034	.0245
25.9	3.1	.0169	.0029	.0262
29.9	5.0	.0169	.0036	.0254
Feb. 2.8	3.0	.0171	.0032	.0261
6.3	4.0	.0169	.0024	.0246
9.3	2.0	.0177	.0031	.0246
11.8	3.0	.0176	.0025	.0245
15.4	4.0	.0183	.0026	.0242
19.8	5.0	.0174	.0007	.0243
24.8	5.0	.0173	.0011	.0235
29.3	4.0	.0183	.0006	.0241
Mar. 4.8	5.0	.0183	.0012	.0232
8.8	3.0	.0183	.0004	.0219
11.8	3.0	.0183	.0001	.0219
14.8	3.0	.0186	−.0007	.0223
17.8	3.0	.0189	+.0001	.0221
20.8	3.0	.0181	.0004	.0207
24.3	4.0	.0189	.0010	.0217
28.3	4.0	−.0190	+.0007	−.0206

Date	Sidereal Interval	Hourly Rates		
		No. 60	No. 70	No. 151
		No. 60 Standard—Continued		
1912	d	s	s	s
Apr. 1.4	4.0	−0.0188	+0.0009	−0.0211
4.9	3.0	.0196	.0015	.0216
7.8	3.0	.0186	.0011	.0205
10.4	2.0	.0199	.0014	.0214
13.9	5.0	.0198	.0013	.0206
17.9	3.0	.0196	.0015	.0201
21.4	4.0	.0195	.0024	.0196
25.4	4.1	.0204	.0009	.0198
29.4	4.0	.0203	.0019	.0188
May 2.9	3.0	.0204	.0011	.0186
6.9	5.0	.0208	.0024	[2]
11.4	4.0	.0213	.0019	.0272
15.9	5.0	.0215	.0010	.0267
19.9	3.0	.0210	.0015	.0272
22.9	3.0	.0212	.0010	.0267
25.9	3.0	.0216	.0015	.0271
28.9	3.0	.0217	.0015	.0266
June 1.4	4.0	.0217	.0011	.0272
4.4	2.0	.0224	.0004	.0278
6.9	3.0	.0215	.0007	.0278
July 26.4	2.0	.0198	.0019	.0276
29.0	3.2	.0192	.0026	.0266
Aug. 1.6	4.0	.0197	.0026	.0267
5.0	3.0	.0203	.0026	.0278
8.6	3.9	.0196	.0022	.0269
11.4	1.9	.0199	.0031	.0271
14.0	3.1	.0202	.0024	.0275
18.0	5.1	.0203	.0028	.0274
22.5	4.0	.0201	.0027	.0268
26.0	3.0	.0207	.0023	.0275
29.5	3.9	.0209	.0030	.0273
Sept. 2.4	3.9	.0218	.0015	.0284
5.4	2.0	.0210	.0029	.0272
7.9	3.0	.0220	.0018	.0285
10.9	3.0	.0217	.0025	.0278
13.4	2.0	.0221	.0027	.0290
15.9	3.0	.0224	.0014	.0280
19.4	3.9	.0221	.0018	.0277
24.3	6.0	.0227	.0017	.0283
28.8	3.1	.0230	.0008	.0286
Oct. 1.8	2.9	.0223	.0023	.0282
5.4	4.2	.0216	.0025	.0276
9.0	2.9	.0220	.0013	.0284
12.4	4.0	.0217	.0025	.0278
15.4	1.9	.0233	.0020	.0290
17.4	2.0	.0210	.0029	.0271
22.0	7.2	.0224	.0027	.0277
26.4	1.8	.0232	.0002	.0297
28.4	2.2	.0210	.0031	.0268
31.0	3.0	.0224	.0010	.0285
Nov. 3.0	3.1	.0213	.0029	.0278
5.4	1.9	−.0218	+.0020	−.0284

[1] No. 70 stopped for cleaning.

[2] No. 151 unsealed to adjust contacts.

The Observed Hourly Rates of the Riefler Sidereal Clocks—Continued

Date	Sidereal Interval	Hourly Rates		
		No. 60	No. 70	No. 151
		No. 60 Standard—Continued		
1912	d	s	s	s
Nov. 7. 9	3. 0	−0. 0214	+0. 0031	−0. 0282
11. 0	3. 1	. 0208	. 0020	. 0271
14. 5	4. 0	. 0213	. 0025	. 0282
18. 0	2. 9	. 0217	. 0028	. 0285
20. 9	3. 0	. 0205	. 0029	. 0272
24. 4	4. 0	. 0219	. 0021	. 0282
27. 9	3. 0	. 0214	. 0029	. 0271
Dec. 1. 4	4. 1	. 0221	. 0030	. 0281
4. 9	3. 0	. 0219	. 0032	. 0272
7. 9	3. 0	. 0220	. 0039	. 0279
11. 0	3. 1	. 0218	. 0031	. 0274
13. 4	1. 9	. 0216	. 0047	. 0276
15. 4	2. 2	. 0214	. 0039	. 0273
18. 0	3. 0	. 0215	. 0041	. 0275
21. 0	3. 1	. 0216	. 0040	. 0282
25. 0	4. 8	. 0208	. 0043	. 0284
28. 9	3. 0	. 0201	. 0049	. 0278
1913				
Jan. 1. 9	5. 0	. 0205	. 0036	. 0289
6. 4	4. 0	. 0203	. 0035	. 0300
8. 9	1. 0	. 0200	. 0033	. 0286
11. 9	5. 0	. 0199	. 0029	. 0291
16. 4	4. 1	. 0194	. 0045	. 0283
20. 0	3. 0	. 0185	. 0042	. 0275
23. 5	4. 0	. 0196	. 0025	. 0282
27. 0	2. 9	. 0191	. 0020	. 0281
29. 4	2. 1	. 0183	. 0050	. 0287
31. 4	1. 9	. 0186	. 0024	. 0291
Feb. 2. 9	3. 2	. 0184	. 0033	. 0286
6. 0	2. 9	. 0189	. 0033	. 0280
8. 9	3. 0	. 0188	. 0035	. 0273
11. 9	3. 1	. 0189	. 0020	. 0271
15. 4	3. 9	. 0186	. 0039	. 0265
19. 4	4. 0	. 0196	. 0025	. 0274
23. 4	4. 2	. 0192	. 0028	. 0272
27. 0	2. 9	. 0205	. 0024	. 0277
Mar. 1. 9	3. 0	. 0196	. 0038	. 0263
5. 4	4. 0	. 0203	. 0022	. 0278
9. 4	4. 1	. 0198	. 0027	. 0279
12. 0	0. 9	. 0181	. 0029	. 0274
14. 9	5. 0	. 0201	. 0023	. 0276
18. 9	3. 0	. 0197	. 0030	. 0277
21. 4	2. 1	. 0193	. 0016	. 0276
23. 4	1. 9	. 0175	. 0040	. 0262
26. 0	3. 1	. 0187	. 0008	. 0286
29. 5	4. 0	. 0182	. 0015	. 0280
Apr. 2. 0	3. 1	. 0180	. 0026	. 0280
5. 0	3. 0	. 0183	. 0018	. 0278
7. 5	2. 0	. 0176	. 0037	. 0285
12. 4	7. 9	. 0180	. 0030	. 0303
18. 0	3. 1	− . 0187	+ . 0032	− . 0309

Date	Sidereal Interval	Hourly Rates		
		No. 60	No. 70	No. 151
		No. 60 Standard—Continued		
1913	d	s	s	s
Apr. 21. 0	2. 9	−0. 0184	+0. 0024	−0. 0305
23. 9	3. 0	. 0190	. 0029	. 0309
27. 4	4. 1	. 0188	. 0023	. 0295
May 1. 0	2. 9	. 0190	. 0037	. 0288
3. 9	3. 0	. 0198	. 0019	. 0294
6. 9	3. 0	. 0196	. 0031	. 0286
9. 4	2. 0	. 0211	. 0025	. 0304
11. 4	1. 9	. 0196	. 0017	. 0302
13. 9	3. 0	. 0202	. 0025	. 0293
17. 4	4. 0	. 0203	. 0025	. 0292
22. 0	5. 1	. 0202	. 0031	. 0286
26. 5	4. 0	. 0206	. 0029	. 0282
30. 0	2. 9	. 0210	. 0020	. 0287
June 1. 5	2. 0	. 0211	. 0017	. 0283
3. 9	3. 0	. 0204	. 0026	. 0278
7. 4	4. 0	. 0207	. 0020	. 0311
11. 4	4. 0	. 0198	. 0030	. 0319
15. 4	4. 0	. 0208	. 0014	. 0326
19. 4	4. 1	. 0203	. 0019	. 0313
23. 0	3. 0	. 0207	. 0021	. 0304
25. 4	1. 9	. 0203	. 0009	. 0307
28. 4	4. 0	. 0210	. 0014	. 0306
July 2. 4	4. 0	. 0210	. 0016	. 0303
5. 9	2. 9	. 0210	. 0018	. 0296
8. 9	3. 1	. 0211	. 0011	. 0292
12. 4	4. 0	. 0214	. 0015	. 0300
Nov. 4. 9	3. 0	. 0220	. 0006	. 0299
8. 4	4. 1	. 0211	. 0030	. 0286
12. 0	2. 9	. 0216	. 0026	. 0294
15. 4	4. 1	. 0220	. 0014	. 0295
19. 0	3. 0	. 0221	. 0017	. 0293
21. 5	2. 0	. 0224	. 0010	. 0295
23. 4	1. 9	. 0227	+ . 0011	. 0293
24. 8	1. 0	. 0247	− . 0009	. 0320
29. 4	8. 2	. 0221	+ . 0025	. 0302
Dec. 4. 4	2. 0	. 0225	. 0025	. 0289
7. 0	3. 1	. 0232	. 0015	. 0302
10. 0	2. 9	. 0218	. 0034	. 0284
12. 5	2. 0	. 0228	. 0021	. 0301
14. 5	2. 0	. 0215	. 0039	. 0282
17. 0	3. 0	. 0217	. 0032	. 0288
19. 4	2. 0	. 0226	. 0038	. 0292
21. 4	1. 9	. 0223	. 0029	. 0290
24. 4	4. 2	. 0230	. 0031	. 0291
28. 5	4. 0	. 0233	. 0034	. 0302
31. 9	2. 8	. 0222	. 0028	. 0294
1914				
Jan. 3. 8	3. 2	. 0227	. 0017	. 0308
6. 9	3. 0	. 0217	. 0033	. 0290
10. 4	3. 9	. 0221	. 0038	. 0307
13. 9	3. 2	− . 0212	+ . 0051	− . 0290

The Observed Hourly Rates of the Riefler Sidereal Clocks—Continued

Date	Sidereal Interval	Hourly Rates		
		No. 60	No. 70	No. 151
		No. 60 Standard—Continued		
1914	d	s	s	s
Jan. 16.6	2.0	−0.0205	+0.0047	−0.0283
19.4	3.8	.0217	.0050	.0292
23.3	4.0	.0215	.0046	.0295
26.9	3.2	.0204	.0046	.0292
30.0	3.0	.0194	.0045	.0291
Feb. 2.0	3.0	.0191	.0049	.0294
5.5	4.0	.0183	.0040	.0289
9.4	3.8	.0173	.0053	.0286
13.4	4.0	.0177	.0050	.0286
16.4	2.1	.0185	.0034	.0305
19.4	4.0	.0182	.0044	.0294
23.4	3.9	.0180	.0046	.0292
26.4	2.2	.0179	.0050	.0291
Mar. 1.5	4.0	.0176	.0044	.0297
5.5	4.0	.0175	.0065	−.0283
8.9	2.9	.0181	.0054	
11.9	3.2	.0170	.0054	
15.0	2.8	.0174	.0054	
18.4	4.2	.0186	.0044	(1)
22.0	3.0	.0177	.0064	
25.0	3.0	.0185	.0054	
29.6	6.2	.0185	.0053	
Apr. 3.0	2.7	.0182	.0060	
5.4	2.0	.0189	.0061	
7.9	3.0	.0200	.0037	
11.4	4.0	.0195	.0051	−.0028
15.4	4.1	.0192	.0050	.0044
19.4	4.0	.0203	.0045	.0037
22.4	2.1	.0199	.0052	.0036
24.9	2.9	−.0199	+.0050	−.0040
		No. 151 Standard		
29.0	3.0	−.0204	+.0047	−.0046
May 1.4	2.0	−.0204	.0046	.0048
4.4	4.0		.0045	.0058
8.0	3.1		.0034	.0067
10.4	1.9		.0045	.0064
13.4	4.0		.0046	.0070
17.0	3.1	(2)	.0051	.0072
20.0	3.0		.0053	.0071
23.4	4.0		.0048	.0082
27.4	4.0		.0050	.0084
31.4	4.0		.0043	.0089
June 3.9	3.0		.0047	.0095
6.9	3.0		.0063	.0090
9.9	3.0		.0059	.0095
13.4	4.0		.0055	.0097
16.4	2.0	+.0060	.0058	.0080
18.9	3.0	.0027	.0043	.0113
21.9	3.0	.0043	.0061	.0099
25.4	4.1	.0028	.0047	.0109
28.9	3.0	+.0023	+.0044	−.0113

Date	Sidereal Interval	Hourly Rates		
		No. 60	No. 70	No. 151
		No. 151 Standard—Continued		
1914	d	s	s	s
July 1.9	3.0	+0.0026	+0.0045	−0.0112
5.9	5.0	.0014	.0044	.0114
9.9	3.0	.0008	.0036	.0128
13.4	4.0	+.0023	.0044	.0120
16.9	3.0	(3)	.0046	.0124
20.4	4.1	−.0052	.0033	.0127
24.9	5.0	.0047	.0046	.0128
29.4	4.0	.0054	.0032	.0135
Aug. 2.4	4.1	.0048	.0041	.0138
6.4	4.0	.0053	.0036	.0142
11.0	4.9	.0054	.0037	.0142
15.4	4.0	.0057	.0036	.0138
18.9	3.0	.0061	.0033	.0143
21.4	2.0	.0075	.0029	.0156
26.4	8.0	.0061	.0037	.0149
31.9	3.0	.0068	.0037	.0156
Sept. 3.9	3.0	.0067	.0040	.0158
7.4	4.0	.0073	.0031	.0167
11.4	4.0	.0072	.0040	.0165
15.4	4.1	.0066	.0039	.0169
19.4	3.9	.0073	.0030	.0170
23.4	4.0	.0067	.0038	.0171
27.4	4.0	.0069	.0040	.0177
30.4	2.0	.0064	.0039	.0174
Oct. 3.4	4.0	.0075	.0039	.0184
7.4	4.0	.0067	.0038	.0181
10.9	3.0	.0072	.0040	.0190
14.8	4.9	.0071	.0036	.0189
18.8	3.0	.0069	.0040	.0196
21.8	3.0	.0076	.0035	.0198
25.9	5.0	.0068	.0043	.0190
29.9	3.0	.0061	.0057	.0193
Nov. 2.4	4.0	.0069	.0046	.0202
5.9	3.0	.0056	.0054	.0196
8.9	3.0	.0060	.0063	.0199
11.9	3.0	.0068	.0036	.0214
14.8	2.9	.0054	.0055	.0207
17.8	3.0	.0066	.0058	.0209
21.4	4.1	.0056	.0057	.0204
25.0	2.9	.0064	.0048	.0210
27.4	2.0	.0090	.0067	.0202
30.9	5.0	.0064	.0046	.0226
Dec. 7.8	9.0	.0055	.0055	.0222
14.8	5.0	.0051	.0059	.0223
19.4	4.0	.0044	.0067	.0213
22.3	2.0	.0050	.0067	.0209
26.8	7.0	.0046	.0071	.0207
1915				
Jan. 1.8	5.0	.0050	.0071	.0204
5.8	3.0	.0054	.0060	.0209
8.8	3.0	−.0063	+.0056	−.0213

[1] No. 151 stopped for cleaning. [2] No. 60 stopped for cleaning. [3] Pressure in case of No. 60 reduced.

The Observed Hourly Rates of the Riefler Sidereal Clocks—Continued

Date	Sidereal Interval	Hourly Rates		
		No. 60	No. 70	No. 151
No. 151 Standard—Continued				
1915	d	s	s	s
Jan. 11. 8	3. 0	−0. 0051	+0. 0064	−0. 0206
14. 8	3. 1	. 0051	. 0082	. 0200
18. 8	4. 9	. 0058	. 0058	. 0201
23. 4	4. 1	. 0068	. 0050	. 0210
27. 4	3. 9	− . 0057	+ . 0069	− . 0198
No. 60 Standard				
Mar. 30. 9	2. 9	+ . 0005	+ . 0053	− . 0241
Apr. 4. 0	5. 1	. 0003		. 0239
8. 4	3. 9	+ . 0002		. 0237
11. 9	3. 0	− . 0007	(1)	. 0257
15. 4	4. 0	. 0000		. 0242
19. 4	4. 0	+ . 0004		. 0242
22. 9	3. 0	. 0008		. 0228
25. 4	2. 2	. 0010	+ . 0025	. 0239
28. 4	3. 9	. 0015	. 0017	− . 0235
May 2. 4	4. 1	. 0014	. 0036	(2)
6. 4	3. 9	. 0005	. 0054	
9. 9	3. 0	. 0002	. 0036	
12. 9	3. 0	. 0009	. 0062	− . 0023
15. 9	3. 0	. 0011	. 0051	. 0018
18. 4	2. 0	. 0003	. 0016	. 0039
20. 4	2. 0	. 0006	. 0036	. 0032
23. 4	4. 0	. 0005	. 0022	. 0028
26. 4	2. 0	. 0006	. 0043	− . 0027
29. 4	4. 1	. 0002	. 0036	
June 2. 4	4. 0	. 0007	. 0016	(3)
6. 4	3. 9	. 0007	. 0013	− . 0012
9. 4	2. 0	+ . 0012	. 0008	. 0004
11. 4	2. 0	− . 0001	. 0017	. 0017
14. 9	5. 0	+ . 0002	. 0027	. 0012
18. 4	2. 0	. 0009	. 0010	. 0004
20. 9	3. 0	. 0002	. 0077	. 0019
23. 9	3. 0	+ . 0008	. 0077	. 0011
26. 9	3. 0	− . 0003	. 0052	. 0026
30. 4	4. 0	. 0006	. 0077	. 0027
July 3. 9	2. 9	. 0006	. 0080	. 0020
7. 4	4. 1	. 0003	. 0067	. 0017
11. 4	4. 0	. 0005	. 0090	. 0029
14. 9	3. 0	. 0013	. 0075	. 0031
18. 4	4. 1	. 0008	. 0109	. 0024
22. 0	2. 9	. 0012	. 0109	. 0034
25. 4	4. 0	. 0013	. 0095	. 0032
29. 4	4. 1	. 0004	. 0067	. 0024
Aug. 3. 0	5. 0	. 0017	. 0122	. 0039
7. 4	4. 1	. 0000	. 0138	. 0025
11. 0	3. 0	. 0007	. 0174	. 0024
14. 5	4. 0	. 0011	. 0142	. 0034
18. 0	3. 0	. 0005	. 0130	. 0029
21. 5	4. 1	. 0010	. 0138	. 0038
25. 0	2. 9	. 0015	. 0117	. 0036
29. 0	5. 1	− . 0008	+ . 0135	− . 0036

Date	Sidereal Interval	Hourly Rates		
		No. 60	No. 70	No. 151
No. 60 Standard—Continued				
1915	d	s	s	s
Sept. 2. 0	2. 9	−0. 0009	+0. 0168	−0. 0037
5. 4	4. 1	. 0014	. 0152	. 0035
9. 0	2. 9	. 0009	. 0160	. 0033
12. 0	3. 0	. 0014	. 0174	. 0035
15. 0	3. 0	. 0017	. 0167	. 0037
18. 4	4. 0	. 0013	. 0171	. 0039
22. 0	3. 0	. 0015	. 0170	. 0051
25. 4	4. 1	. 0017	. 0159	. 0050
28. 5	2. 2	. 0007	. 0139	. 0039
Oct. 2. 0	4. 7	. 0012	. 0125	. 0050
6. 3	4. 1	. 0014	. 0135	. 0049
9. 9	3. 1	. 0014	. 0118	. 0054
12. 4	1. 9	. 0010	. 0138	. 0055
17. 4	8. 1	. 0020	. 0139	. 0056
23. 4	4. 0	. 0022	. 0134	. 0056
26. 5	2. 0	. 0020	. 0120	. 0052
29. 0	3. 0	. 0015	. 0145	. 0053
Nov. 1. 5	3. 9	. 0023	. 0131	. 0063
5. 6	4. 1	. 0021	. 0133	. 0058
9. 0	2. 9	. 0021	. 0144	. 0054
11. 9	2. 8	. 0019	. 0133	. 0048
14. 9	3. 1	. 0020	. 0141	. 0049
18. 0	2. 9	. 0015	. 0154	. 0043
20. 9	3. 1	. 0019	. 0127	. 0054
23. 4	2. 1	. 0019	. 0129	. 0042
26. 0	3. 1	. 0019	. 0117	. 0047
29. 0	2. 9	. 0025	. 0112	. 0053
Dec. 2. 5	4. 1	. 0014	. 0121	. 0043
5. 5	1. 9	. 0026	. 0130	. 0037
8. 5	4. 0	. 0021	. 0121	. 0045
13. 0	4. 9	. 0017	. 0141	. 0039
18. 4	6. 1	. 0023	. 0153	. 0050
22. 5	2. 1	. 0015	. 0139	. 0042
25. 4	3. 8	. 0024	. 0124	. 0047
30. 9	7. 2	. 0017	. 0127	. 0043
1916				
Jan. 6. 0	5. 0	. 0017	. 0126	. 0042
11. 5	6. 0	. 0020	. 0128	. 0046
17. 0	4. 9	. 0016	. 0138	. 0043
21. 4	4. 2	. 0020	. 0134	. 0046
24. 5	1. 9	. 0027	. 0150	. 0037
26. 4	1. 9	. 0017	. 0142	. 0033
30. 9	7. 2	. 0023	. 0147	. 0050
Feb. 5. 5	4. 0	. 0008	. 0156	. 0048
9. 5	4. 0	. 0011	. 0140	. 0056
13. 5	4. 0	. 0005	. 0166	. 0055
18. 4	5. 8	. 0004	. 0165	. 0056
24. 2	7. 0	. 0005	. 0181	. 0058
25. 4	8. 2	. 0008	. 0176	. 0062
Mar. 2. 1	3. 0	− . 0010	. 0167	. 0056
4. 5	1. 9	+ . 0008	+ . 0167	− . 0049

[1] No. 70 stopped for cleaning. [2] Pressure in case of No. 151 increased. [3] No. 151 stopped.

The Observed Hourly Rates of the Riefler Sidereal Clocks—Continued

Date	Sidereal Interval	Hourly Rates		
		No. 60	No. 70	No. 151
		No. 60 Standard—Continued		
1916	d	s	s	s
Mar. 7.4	4.0	−0.0008	+0.0178	−0.0063
10.4	2.0	.0010	+ .0140	.0043
June 1.7	1.0	.0014	− .0042	.0025
3.8	3.1	.0005	− .0015	.0009
8.8	7.0	.0000	+ .0008	.0012
12.9	1.0	.0014	− .0033	.0029
15.4	4.0	.0000	+ .0014	.0018
19.9	5.0	.0002	.0011	.0022
24.4	4.0	.0009	.0021	.0023
27.9	3.0	.0006	.0035	.0022
July 1.4	4.0	.0009	.0081	.0022
5.4	4.0	.0015	.0066	.0030
9.4	4.0	.0017	.0081	.0028
12.9	3.0	.0007	.0071	.0019
16.4	4.0	.0012	.0076	.0027
19.4	2.0	.0016	.0095	.0025
23.9	7.0	.0021	.0065	.0033
29.4	4.0	.0046	.0086	.0035
Aug. 2.4	4.0	− .0037	+ .0088	− .0028
		No. 70 Standard		
6.9	1.0		+ .0079	− .0039
7.9	1.1		.0073	.0043
11.4	6.0	[1]	.0087	.0035
16.4	4.0		.0084	.0029
20.4	4.1		.0074	.0038
23.4	2.0		.0086	.0029
26.4	4.0		.0081	.0035
30.4	4.0		.0075	.0043
Sept. 3.4	4.0		.0079	.0037
6.4	2.0		.0081	.0031
9.4	4.0		.0098	.0044
15.4	8.0		.0103	.0052
20.8	2.9		.0128	.0044
24.4	4.1		.0125	.0052
27.4	2.0		.0131	.0048
Oct. 2.3	8.0		.0125	.0051
8.3	4.0		.0116	.0048
11.3	2.0		.0133	.0046
14.8	5.0		.0120	.0050
20.4	6.1		.0125	.0054
23.9	1.0		.0121	.0021
25.4	2.0		.0116	.0054
26.8	1.0		.0130	.0064
30.3	6.1		.0133	.0055
Nov. 2.8	1.0	.0000	.0141	.0044
5.3	4.0	− .0013	+ .0130	− .0048
		No. 60 Standard		
9.8	1.1	− .0021		− .0047
13.2	5.9	.0015	[2]	.0046
18.2	4.1	− .0006	+ .0036	− .0040

Date	Sidereal Interval	Hourly Rates		
		No. 60	No. 70	No. 151
		No. 60 Standard—Continued		
1916	d	s	s	s
Nov. 22.3	4.1	−0.0019	+0.0014	−0.0050
25.8	3.0	.0020	.0005	.0044
Dec. 2.4	10.1	.0020	+ .0018	.0045
10.8	7.0	.0019	− .0016	− .0045
16.8	5.0	.0015	.0012	[3]
22.8	7.0	.0021	.0015	− .0007
27.8	3.1	.0024	.0019	.0005
31.4	4.0	.0024	.0030	.0012
1917				
Jan. 5.4	6.0	.0025	.0037	.0011
9.8	3.1	.0031	.0025	.0017
14.8	6.9	.0028	− .0013	.0016
18.8	1.1	.0020	+ .0016	.0012
23.9	9.0	.0029	− .0022	.0021
Feb. 28.2	11.0	.0039	.0007	.0033
Mar. 7.8	3.0	.0043	.0011	.0038
10.8	3.0	.0042	− .0008	.0033
13.8	3.0	.0047	+ .0001	.0030
17.4	4.0	.0044	.0014	.0036
20.8	3.0	.0038	+ .0016	.0030
23.8	3.0	.0041	− .0005	.0041
26.8	3.0	.0051	− .0001	.0045
29.3	2.0	.0036	+ .0019	.0027
Apr. 1.3	4.0	.0055	.0007	.0050
6.4	6.1	.0048	+ .0001	.0047
9.9	1.0	.0021	− .0004	.0025
13.4	6.0	.0048	− .0006	.0049
17.9	3.1	.0049	+ .0015	.0048
21.4	3.9	.0050	+ .0017	.0051
24.9	4.0	.0046	− .0007	.0044
26.8	7.0	.0045	.0008	.0044
28.4	3.0	.0053	.0014	.0051
May 2.0	3.0	.0056	− .0001	.0045
6.9	7.0	.0051	+ .0014	.0044
12.4	4.0	.0055	.0014	.0050
14.9	1.0	.0059	.0021	.0059
16.6	3.0	.0061	.0015	.0055
18.9	7.0	.0057	+ .0003	.0054
23.9	3.0	.0057	− .0025	.0060
30.4	10.0	.0064	+ .0002	.0067
June 20.9	3.0	.0071	− .0001	.0079
24.4	4.0	.0068	+ .0020	.0078
29.8	4.0	.0078	.0003	.0089
July 3.3	2.9	.0076	.0017	.0087
9.4	6.0	.0076	.0007	.0098
10.8	12.1	.0073	.0010	.0098
19.9	15.0	.0074	.0005	.0101
28.9	3.0	.0069	.0011	.0095
Aug. 5.4	4.1	.0075	+ .0007	.0107
8.9	3.0	− .0087	− .0014	− .0109

[1] No. 60 stopped.

[2] Pressure in case of No. 70 reduced.

[3] Pressure in case of No. 151 increased.

The Observed Hourly Rates of the Riefler Sidereal Clocks—Continued

Date	Sidereal Interval	Hourly Rates		
		No. 60	No. 70	No. 151
No. 60 Standard—Continued				
1917	d	s	s	s
Aug. 11. 9	3. 0	−0. 0080	−0. 0001	−0. 0108
15. 4	4. 0	. 0082	+ . 0011	. 0112
19. 4	4. 0	. 0086	− . 0012	. 0113
30. 4	10. 0	. 0089	+ . 0004	. 0115
Sept. 7. 9	7. 0	. 0086	− . 0005	. 0122
12. 4	2. 0	. 0073	+ . 0012	− . 0114
15. 9	5. 0	. 0080	+ . 0001	(1)
23. 7	7. 0	. 0081	. 0000	− . 0032
26. 3	12. 0	. 0083	− . 0002	. 0027
29. 6	5. 1	. 0087	− . 0004	. 0022
Oct. 3. 3	2. 0	. 0077	+ . 0008	. 0023
13. 4	4. 1	. 0081	− . 0001	. 0023
15. 9	1. 0	. 0066	+ . 0021	. 0012
19. 4	6. 0	. 0071	. 0000	. 0019
23. 9	3. 0	. 0072	+ . 0003	. 0021
25. 9	1. 0	. 0067	+ . 0004	. 0004
29. 9	7. 0	. 0067	− . 0006	. 0020
Nov. 16. 4	8. 0	. 0075	. 0010	. 0010
22. 9	6. 0	. 0058	. 0017	. 0002
26. 4	1. 0	. 0079	. 0033	− . 0008
28. 4	16. 1	. 0063	. 0023	+ . 0004
Dec. 8. 4	4. 0	. 0074	. 0015	+ . 0009
22. 3	3. 0	. 0082	. 0052	. 0000
23. 8	7. 0	. 0076	. 0031	+ . 0006
25. 3	3. 0	. 0071	− . 0015	. 0013
1918				
Jan. 1. 8	12. 1	. 0074	+ . 0014	. 0004
2. 3	12. 0	. 0075	. 0016	. 0003
9. 4	2. 1	. 0085	. 0073	+ . 0002
13. 9	7. 0	. 0079	. 0069	. 0000
20. 3	2. 0	. 0071	. 0077	+ . 0010
25. 4	8. 1	. 0087	. 0065	. 0006
Feb. 4. 9	13. 0	. 0081	. 0071	. 0005
7. 3	7. 0	. 0076	. 0073	. 0015
11. 8	1. 0	. 0062	. 0098	. 0034
12. 3	3. 0	− . 0086	+ . 0074	+ . 0017

Date	Sidereal Interval	Hourly Rates		
		No. 60	No. 70	No. 151
No. 60 Standard—Continued				
1918	d	s	s	s
Feb. 13. 8	3. 0	−0. 0092	+0. 0063	+0. 0007
19. 8	3. 0	. 0083	. 0073	. 0010
24. 8	7. 1	. 0086	+ . 0069	. 0007
Mar. 2. 8	5. 0	. 0088		. 0005
6. 8	3. 0	. 0087		. 0001
13. 3	4. 1	. 0084	(2)	+ . 0001
16. 8	3. 0	. 0087		. 0000
21. 8	7. 0	. 0092	− . 0020	+ . 0003
27. 4	4. 1	. 0088	. 0013	+ . 0005
Apr. 3. 8	3. 0	. 0092	. 0025	− . 0004
10. 4	10. 1	. 0086	. 0015	
18. 8	6. 0	. 0096	. 0033	(3)
23. 9	17. 0	. 0095	. 0029	
26. 8	10. 1	. 0094	. 0024	
May 3. 8	4. 0	. 0089	. 0017	− . 0026
5. 4	6. 0	. 0096	. 0023	. 0034
7. 3	3. 0	. 0106	. 0032	. 0050
June 21. 9	5. 0	. 0108	. 0046	. 0078
26. 4	4. 0	. 0108	. 0048	. 0074
30. 4	4. 0	. 0113	. 0081	. 0093
July 9. 9	2. 0	. 0110	. 0049	. 0103
12. 4	6. 1	. 0113	. 0046	. 0105
12. 9	4. 0	. 0109	. 0044	. 0101
15. 9	1. 0	. 0123	. 0056	. 0098
16. 4	3. 0	. 0124	. 0057	. 0110
19. 4	6. 1	. 0115	. 0049	. 0101
20. 4	5. 0	. 0118	. 0050	. 0104
23. 8	2. 0	. 0119	. 0049	. 0107
23. 9	3. 0	. 0126	. 0052	. 0117
Aug. 3. 4	4. 0	. 0124	. 0049	. 0108
5. 3	7. 0	. 0124	. 0051	. 0110
7. 0	3. 1	. 0123	. 0052	. 0107
10. 3	3. 0	. 0121	. 0052	. 0105
12. 0	6. 9	. 0127	. 0060	. 0110
13. 8	4. 0	. 0130	. 0062	. 0112
15. 8	1. 0	− . 0111	− . 0044	− . 0105

[1] Pressure in case of No. 151 increased. [2] No. 70 stopped for cleaning. [3] No. 151 stopped for cleaning.

The observed hourly rates given in the preceding table were plotted and curves drawn which best represented the points. The adopted hourly rates of the standard clock were then scaled off as needed. These are given in Table VI.

Final corrections to right ascensions of clock stars.—As the results of the 1911–1918 work, which was discussed first, were used in correcting the clock star positions of the 1909–1910 work, the corrections applied to the latter were regarded as being definitive.

The final corrections to the preliminary clock star system in the 1911–1918 work were determined from nights on which at least seven clock stars were observed. There were 834 such nights, and the correction for each star was determined to reduce to the mean of all on each night. The preliminary clock corrections, corrected for variation with the declination were used. After the mean corrections for the various stars had been formed, the computations were repeated, using the corrections thus obtained, to secure a better approximation. The following table contains a list of all the clock stars used, with the preliminary and final corrections to NEWCOMB's right ascensions.

The Corrections to Newcomb's Right Ascensions of the Clock Stars

[List 1 was used during the period 1909–1910; List 2, 1911–1916; List 3, 1916–1918]

Star	Lists	α	δ	Preliminary Corrections	Final Corrections
		h m	° ′	s	s
α Andromedæ	1 2 3	0 3.7	+28 36	+0.006	+0.001
γ Pegasi	1 2 3	8.6	+14 41	+ .021	+ .023
ι Ceti	1 2	14.8	− 9 19	+ .042	+ .054
44 Piscium	1	20.8	+ 1 26	....	+ .034
β Ceti	1 2 3	39.1	−18 29	+ .062	+ .073
δ Piscium	1	44.0	+ 7 6	....	+ .044
β Andromedæ	2 3	1 4.7	+35 9	+ .037	+ .029
θ Ceti	1 2	19.5	− 8 39	+ .068	+ .071
η Piscium	2 3	26.7	+14 53	+ .049	+ .054
ν Piscium	1	36.7	+ 5 2	....	+ .032
β Arietis	2 3	49.7	+20 22	+ .072	+ .064
α Arietis	2 3	2 2.1	+23 2	+ .032	+ .040
β Trianguli	2	4.2	+34 34	+ .005	.000
δ Ceti	2	34.9	− 0 4	+ .020	+ .030
41 Arietis	3	44.7	+26 53	+ .032	+ .028
α Ceti	2 3	57.6	+ 3 44	+ .047	+ .060
δ Arietis	1	3 6.5	+19 23	....	+ .016
o Tauri	2	20.0	+ 8 43	+ .037	+ .041
f Tauri	1	25.9	+12 38	....	+ .027
η Tauri	1 2 3	42.1	+23 50	+ .008	+ .033
ζ Persei	1 3	48.5	+31 37	+ .034	+ .017
γ Eridani	1 2	53.8	−13 46	+ .032	+ .021
ν Tauri	2	58.4	+ 5 44	+ .011	+ .003
o' Eridani	1	4 7.5	− 7 4	....	+ .005
δ Tauri	2	17.7	+17 20	+ .025	+ .020
ϵ Tauri	2 3	23.4	+18 59	+ .012	+ .009
α Tauri	2 3	30.8	+16 20	+ .055	+ .040
π^3 Orionis	3	45.0	+ 6 48	+ .043	+ .026
ι Aurigæ	2 3	51.1	+33 1	+ .024	+ .012
β Orionis	2 3	5 10.2	− 8 18	+ .066	+ .062
β Tauri	2 3	20.6	+28 32	+ .028	+ .013
δ Orionis	2 3	27.4	− 0 22	+ .032	+ .030
ϵ Orionis	3	31.6	− 1 16	+ .037	+ .032
ζ Orionis	3	36.2	− 1 59	+ .009	+ .015
κ Orionis	3	43.5	− 9 42	+ .038	+ .034
α Orionis	2 3	50.3	+ 7 23	+ .038	+ .032
η Geminorum	1	6 9.4	+22 32	....	− .038
μ Geminorum	1 2	17.5	+22 34	+ .009	+ .004
γ Geminorum	1 2 3	32.5	+16 29	+ .014	+ .017
ϵ Geminorum	1 2 3	38.4	+25 13	+ .015	+ .018
ξ Geminorum	2	40.2	+13 0	+ .018	+ .016
θ Geminorum	1 3	46.9	+34 4	− .060	− .039

The Corrections to Newcomb's Right Ascensions of the Clock Stars—Continued

Star	Lists	α	δ	Preliminary Corrections	Final Corrections
		h m	° ′	s	s
ζ Geminorum	2	6 58.8	+20 42	+0.013	+0.007
λ Geminorum	2	7 12.9	+16 42	+ .005	+ .004
ι Geminorum	1 2	20.1	+27 59	+ .006	+ .001
β Canis Minoris	1 2 3	22.3	+ 8 28	− .002	+ .005
α^2 Geminorum	1 3	28.9	+32 5	+ .032	+ .027
α Canis Minoris	1 3	34.6	+ 5·27	+ .090	+ .060
β Geminorum	1 2 3	39.8	+28 15	+ .021	+ .020
β Cancri	1 2	8 11.6	+ 9 28	+ .043	+ .044
30 Monocerotis	2	21.2	− 3 37	− .002	+ .001
ε Hydræ	1 2 3	42.0	+ 6 45	+ .023	+ .018
ζ Hydræ	2 3	50.6	+ 6 17	− .004	− .009
θ Hydræ	2	9 9.7	+ 2 42	+ .008	+ .011
40 Lyncis	2 3	15.6	+34 46	+ .028	+ .023
α Hydræ	1 2 3	23.2	− 8 16	+ .037	+ .035
ε Leonis	1 2 3	40.7	+24 11	+ .032	+ .030
α Leonis	1 2 3	10 3.6	+12 24	+ .043	+ .034
ζ Leonis	2 3	11.7	+23 52	+ .016	+ .019
ρ Leonis	2	28.1	+ 9 46	+ .016	+ .015
ν Hydræ	2	45.2	−15 43	+ .073	+ .062
δ Leonis	1 2 3	11 9.3	+21 1	+ .002	− .001
ν Ursæ Majoris	3	13.6	+33 35	− .004	− .016
δ Crateris	1	14.8	−14 17	....	+ .053
υ Leonis	1	32.3	− 0 20	....	+ .036
β Leonis	1 2 3	44.5	+15 5	+ .016	+ .022
β Virginis	2	46.0	+ 2 16	+ .033	+ .036
ο Virginis	1 2	12 0.6	+ 9 14	+ .024	+ .023
γ Corvi	1 3	11.2	−17 3	+ .052	+ .073
η Virginis	1 2	15.3	− 0 10	+ .007	.000
δ Corvi	1	25.2	−16 1	....	− .003
δ Virginis	1 2	51.1	+ 3 53	+ .035	+ .052
α Canum Venat. *seq*	3	51.8	+38 48	+ .026	+ .035
ε Virginis	1 2 3	57.7	+11 27	+ .023	+ .029
α Virginis	2 3	13 20.4	−10 42	+ .042	+ .049
ζ Virginis	2	30.1	− 0 8	+ .048	+ .057
η Bootis	1 2 3	50.4	+18 51	+ .011	+ .011
α Bootis	1 2 3	14 11.6	+19 39	+ .045	+ .046
ρ Bootis	2	28.0	+30 46	− .025	− .004
γ Bootis	3	28.5	+38 42	− .008	− .013
ε Bootis	1 2 3	41.1	+27 27	+ .017	+ .015
α^2 Libræ	2	45.9	−15 40	+ .061	+ .056
β Libræ	2 3	15 12.2	− 9 3	+ .038	+ .030
α Coronæ Borealis	2 3	30.9	+27 1	+ .009	+ .019
α Serpentis	2 3	39.8	+ 6 42	+ .039	+ .034
δ Scorpii	2 3	55.0	−22 22	+ .059	+ .055
β Scorpii	2	16 0.2	−19 34	+ .083	+ .079
δ Ophiuchi	2 3	9.6	− 3 28	+ .042	+ .037
α Scorpii	2 3	23.9	−26 14	+ .042	+ .060
β Herculis	2	26.3	+21 41	+ .059	+ .055
ζ Ophiuchi	3	32.2	−10 23	+ .045	+ .039
κ Ophiuchi	2	53.4	+ 9 31	+ .047	+ .033
η Ophiuchi	3	17 5.2	−15 37	+ .078	+ .073
α Herculis	2	10.5	+14 30	+ .024	+ .037
δ Herculis	3	11.3	+24 57	+ .032	+ .020
α Ophiuchi	2 3	30.8	+12 37	+ .027	+ .027
β Ophiuchi	2 3	39.0	+ 4 36	+ .019	+ .019
μ Herculis	2	42.9	+27 46	+ .019	+ .014
μ Sagittarii	1	18 8.4	−21 5	....	+ .042

The Corrections to Newcomb's Right Ascensions of the Clock Stars—Continued

Star	Lists	α	δ	Preliminary Corrections	Final Corrections
		h m	° ′	s	s
η Serpentis	2	18 16.7	− 2 55	+0.073	+0.080
109 Herculis	2	19.9	+21 44	+ .017	+ .026
1 Aquilæ	1	30.3	− 8 18	....	+ .046
α Lyræ	1 3	33.9	+38 42	+ .023	+ .020
σ Sagittarii	2 3	49.7	−26 25	+ .133	+ .121
γ Lyræ	2 3	55.6	+32 34	+ .003	+ .032
ζ Aquilæ	2 3	19 1.3	+13 44	+ .043	+ .045
ι Lyræ	1	4.1	+35 58	....	− .032
δ Aquilæ	1 2	21.0	+ 2 56	+ .047	+ .047
β^1 Cygni	1 2 3	27.1	+27 46	+ .033	+ .033
β Sagittæ	1	37.0	+17 16	....	+ .050
γ Aquilæ	1 2 3	42.0	+10 24	+ .049	+ .052
α Aquilæ	2 3	46.4	+ 8 38	+ .064	+ .053
β Aquilæ	2	50.9	+ 6 11	+ .058	+ .045
θ Aquilæ	2	20 6.7	− 1 5	+ .063	+ .058
ϵ Delphini	2	28.9	+11 0	+ .025	+ .027
α Delphini	2	35.5	+15 36	+ .031	+ .010
ϵ Cygni	2 3	42.6	+33 38	− .015	− .014
ζ Cygni	2 3	21 9.1	+29 51	+ .030	+ .025
β Aquarii	2 3	26.8	− 5 58	+ .045	+ .051
ϵ Pegasi	2 3	39.8	+ 9 28	+ .047	+ .053
α Aquarii	2 3	22 1.2	− 0 45	+ .042	+ .056
γ Aquarii	2	17.0	− 1 50	+ .045	+ .061
ζ Pegasi	2	37.0	+10 22	+ .024	+ .028
η Pegasi	2 3	38.8	+29 45	+ .015	+ .012
μ Pegasi	3	45.7	+24 8	+ .008	− .015
α Pegasi	1 2 3	23 0.3	+14 43	+ .035	+ .046
γ Piscium	1 2	12.5	+ 2 47	+ .059	+ .059
ι Piscium	1 2	35.3	+ 5 8	+ .036	+ .041
ω Piscium	1 2	54.7	+ 6 22	+ .036	+ .030

The individual values of the corrections to the preliminary clock star system derived from the various observations were collected by clamps and positions of the instrument, and the mean differences, Clamp East minus Clamp West and Position II minus Position I, shown in the following table, were obtained:

δ	(E−W)		(II−I)
	Pos. II	Pos. I	
° °	s	s	s
+35 to +30	+0.001	+0.002	+0.003
+30 to +25	+0.001	−0.001	+0.001
+25 to +20	+0.001	+0.004	+0.002
+20 to +15	+0.002	−0.001	+0.001
+15 to +10	−0.003	0.000	0.000
+10 to + 5	0.000	+0.003	0.000
+ 5 to 0	+0.001	−0.002	+0.001
0 to − 5	−0.006	−0.002	−0.001
− 5 to −15	−0.004	−0.005	−0.001
−15 to −26	+0.002	−0.003	−0.006

The results indicate that the variation of the clock corrections with the declination has been almost entirely eliminated.

The following table gives the mean values of the final corrections to the preliminary clock star system, arranged so as to show any variation that might exist in right ascension or declination. The subscripts indicate the number of stars in each mean.

Variation with the Right Ascension and Declination of the Final Corrections to the Preliminary Clock Star System

δ \ α	0^h to 3^h	3^h to 6^h	6^h to 9^h	9^h to 12^h
° °	s	s	s	s
+35 to +20	-0.004_5	-0.001_3	-0.003_5	-0.002_4
+20 to 0	$+0.007_3$	-0.005_6	0.000_7	0.000_5
0 to −26	$+0.009_4$	-0.006_3	$+0.003_1$	-0.006_2
Means	+0.004	−0.004	0.000	−0.003

δ \ α	12^h to 15^h	15^h to 18^h	18^h to 21^h	21^h to 24^h	0^h to 24^h
° °	s	s	s	s	s
+35 to +20	$+0.009_2$	0.000_3	$+0.010_4$	-0.004_2	0.000
+20 to 0	$+0.005_5$	-0.001_5	-0.005_7	$+0.003_6$	0.000
0 to −26	$+0.001_4$	-0.001_5	-0.003_3	$+0.012_3$	+0.001
Means	+0.005	−0.001	+0.001	+0.004	0.000

The column *0^h to 24^h* in the preceding table contains the mean correction for each zone of declination, giving equal weight to each three hours of right ascension; and the line *Means* contains the mean correction for each three hours of right ascension, giving equal weight to the three zones of declination. The means in this line may be represented by the expression

$$\Delta\alpha = -0^s.002 \sin\alpha + 0^s.001 \cos\alpha + 0^s.000 \sin 2\alpha + 0^s.002 \cos 2\alpha$$

which indicates that the periodic variation in the preliminary clock star system of right ascensions is very small. The periodic variation in NEWCOMB's right ascensions derived from the clock star observations of the 9-inch transit circle, 1903–1911, Publications of the United States Naval Observatory, Second Series, Volume IX, Part I, page A LV, is given by

$$\Delta\alpha = -0^s.008 \sin\alpha + 0^s.008 \cos\alpha + 0^s.002 \sin 2\alpha + 0^s.002 \cos 2\alpha$$

These expressions, when combined, give the following periodic variation in NEWCOMB's right ascensions derived from the 6-inch clock star observations:

$$\Delta\alpha = -0^s.010 \sin\alpha + 0^s.009 \cos\alpha + 0^s.002 \sin 2\alpha + 0^s.004 \cos 2\alpha$$

The difference in epoch between the 9-inch and the 6-inch observations is about eight years.

Daily variation of clock corrections and clock rates.—Daylight clock corrections determined about 9 a. m. and night clock corrections determined about 12 hours later were compared, using all the material available. The night clock corrections include at least three stars and the day clock corrections at least four, both sets being by the same observer. About 6,000 observations were used, made on 462 days. The following table shows the differences in the sense day minus night, for each quarter of the year. The subscripts indicate the number of days.

Dates	Day—Night
	s
Dec. 21 to Mar. 21	-0.003_{88}
Mar. 21 to June 21	-0.013_{87}
June 21 to Sept. 21	$+0.001_{146}$
Sept. 21 to Dec. 21	-0.002_{141}
Mean (unweighted)	−0. 004

A small seasonal variation is shown, corresponding to that found for Period 2 in the discussion of all the daylight observations, and given on page 42.

During the winter months there were many nights during which two clock corrections were determined, one early, and the other late, in the night. The interval between the clock corrections was usually five or six hours. For these nights, the hourly clock rate determined from observations on a single night was compared with the mean rate determined from observations on different nights, with the following results:

Hourly Rate (9 p. m. to 3 a. m.) Minus the Mean Hourly Rate, from Night to Night

Year	No. Nights	Difference	Probable Error
		s	s
1912–13	28	−0. 0029	±0. 0004
1913–14	45	+0. 0001	±0. 0004
1915–16	41	+0. 0013	±0. 0004

The hourly clock rate during the night agrees with the mean rate within the limits of accidental errors of observation. The differences between the day and night clock corrections may be attributed to atmospheric causes, varying with the time of day, the season, the locality, and with the construction of the observing house.

Clock corrections for the Sun, Mercury, and Venus.—In general, clock corrections for the Sun were determined by reducing with the adopted clock rate the correction obtained from the morning clock stars and that obtained the following night (both of which were by the same observer as the Sun) to the time of observa-

tion of the Sun, and using the mean. When one or both of these were missing, the nearest available corrections were used, allowing for relative personal equation when a correction by another observer was used. Since no serious difference between day and night observations in right ascension was found, day and night clock corrections were treated alike and given equal weight. Night clock corrections which consisted of less than three observations and day clock corrections which consisted of less than four were first strengthened by combining them with the nearest clock correction on the same side of the Sun. The clock corrections for Mercury and Venus were derived in a similar manner.

Adopted clock corrections.—Table VI contains the adopted mean clock corrections, which consist of the preliminary clock corrections with the corrections for variation with the declination and the final corrections to the preliminary clock star system applied.

The right ascensions of stars observed in the daytime, as well as those observed at night, were reduced with the clock corrections determined at night. The results for each observer depend in every case on his own clock corrections.

VARIATION OF THE OBSERVED RIGHT ASCENSIONS DURING THE DAY AND NIGHT

The program in 1911–1916 called for observations of clock stars whenever possible between 8 a. m. and noon. In the later work, 1916–1918, the clock stars and certain other stars selected for the purpose of investigating the difference between day and night observations were observed in the afternoon as well as in the forenoon.

The means of the final right ascensions, from night observations only, were taken for each star and subtracted from the individual right ascensions, both day and night. The residuals were arranged in 12 periods, according to the mean time of transit. These periods are defined as follows:

	Period.	
Day	1.	From 20 minutes before sunrise to one hour after sunrise.
	2.	First half of interval from one hour after sunrise to noon.
	3.	Second half of interval from one hour after sunrise to noon.
	4.	First half of interval from noon to one hour before sunset.
	5.	Second half of interval from noon to one hour before sunset.
	6.	From one hour before sunset to 20 minutes after sunset.
Night	7.	From 20 minutes after sunset to end of evening twilight.
	8.	First half of interval from end of evening twilight to midnight.
	9.	Second half of interval from end of evening twilight to midnight.
	10.	First half of interval from midnight to beginning of morning twilight.
	11.	Second half of interval from midnight to beginning of morning twilight.
	12.	From beginning of morning twilight to 20 minutes before sunrise.

Variation during the night.—The results for the six night periods, arranged in four zones of declination, are given in the following table. The results for Polaris are omitted in this and the following tables, as it was observed in a different manner in right ascension from the other stars. The differences in all the tables have been multiplied by the cosine of the declination.

Variation of the Observed Right Ascensions During the Night, 1911–1918

δ	Period 7		Period 8		Period 9	
	Δα	No. Obs'ns.	Δα	No. Obs'ns.	Δα	No. Obs'ns.
° °	s		s		s	
−35 to 0	0.000	333	0.000	472	−0.001	228
0 to +39	−0.001	930	0.000	2,046	+0.001	1,160
+39 to +60	−0.002	94	+0.001	89	+0.004	27
+60 to +115	0.000	143	0.000	86	−0.002	20

δ	Period 10		Period 11		Period 12	
	Δα	No. Obs'ns.	Δα	No. Obs'ns.	Δα	No. Obs'ns.
° °	s		s		s	
−35 to 0	+0.003	132	−0.004	103	−0.005	47
0 to +39	+0.001	501	0.000	215	+0.005	81
+39 to +60	---	---	---	---	---	---
+60 to +115	---	---	---	---	−0.003	78

These results indicate that right ascension observations are not subject to any appreciable variation depending on the time of night at which they are made.

Day minus night differences.—In discussing the residuals for the daylight periods, the relative personal equations of the various observers were first investigated and found to be substantially the same as those determined from night observations. The daylight observations were therefore corrected with the same values for relative personal equation as the night observations.

Day Minus Night Differences in Observed Right Ascensions, 1911–1918

δ	Period 1		Period 2		Period 3	
	Δα	No. Obs'ns.	Δα	No. Obs'ns.	Δα	No. Obs'ns.
° °	s		s		s	
−30 to 0	−0.003	87	−0.008	329	−0.003	205
0 to + 20	−0.008	145	+0.003	800	+0.011	409
+20 to + 30	0.000	94	+0.006	598	+0.009	332
+30 to + 39	+0.001	59	−0.001	270	+0.005	162
+39 to + 60	−0.007	32	+0.001	124	0.000	94
+60 to + 90	+0.003	110	−0.001	67	+0.010	26
+90 to +105	+0.008	70	−0.012	32	+0.004	3
South of Zenith	−0.004	385	+0.002	1,997	+0.007	1,108
North of Zenith	+0.003	212	−0.001	223	+0.002	123

δ	Period 4		Period 5		Period 6	
	Δα	No. Obs'ns.	Δα	No. Obs'ns.	Δα	No. Obs'ns.
° °	s		s		s	
−30 to 0	+0.011	80	−0.012	151	−0.011	159
0 to + 20	+0.004	118	−0.011	152	−0.011	134
+20 to + 30	+0.013	71	−0.009	118	−0.003	79
+30 to + 39	0.000	46	−0.019	60	−0.008	51
+39 to + 60	−0.012	48	−0.014	116	−0.015	79
+60 to + 90	−0.007	21	−0.010	30	−0.004	131
+90 to +105	....	---	+0.005	14	+0.006	90
South of Zenith	+0.007	315	−0.012	481	−0.009	423
North of Zenith	−0.010	69	−0.012	160	−0.004	300

Part of the foregoing discussion was repeated, using the 1916–1918 work only, which contained stars especially selected for this purpose. The results are given in the following table:

Day Minus Night Differences in Observed Right Ascensions, 1916–1918

δ	Period 1		Period 2		Period 3	
	Δα	No. Obs'ns.	Δα	No. Obs'ns.	Δα	No. Obs'ns.
° °	s		s		s	
−30 to − 5	+0.008	26	−0.010	106	−0.005	68
− 5 to + 20	−0.001	67	+0.001	264	+0.010	177
+20 to + 39	+0.001	82	+0.006	250	+0.010	158
+39 to + 84	−0.004	44	0.000	170	+0.004	116
+84 to +115	+0.008	47	−0.012	41	−0.029	5
South of Zenith	+0.001	175	+0.001	620	+0.007	403
North of Zenith	+0.002	91	−0.002	211	+0.003	121

δ	Period 4		Period 5		Period 6	
	Δα	No. Obs'ns.	Δα	No. Obs'ns.	Δα	No. Obs'ns.
° °	s		s		s	
−30 to − 5	+0.002	39	−0.008	105	−0.004	99
− 5 to + 20	−0.003	75	−0.011	181	−0.012	138
+20 to + 39	+0.009	94	−0.013	174	−0.004	128
+39 to + 84	−0.009	72	−0.014	144	−0.010	124
+84 to +115	-----	--	+0.018	6	+0.007	35
South of Zenith	+0.003	208	−0.011	460	−0.007	365
North of Zenith	−0.009	72	−0.013	150	−0.006	159

It would appear from this discussion that the daylight right ascensions are not, in general, essentially different from the night right ascensions. For clock stars, which are included between declinations −30° and +39°, the observed right ascensions in the late afternoon are apparently too small by about $0^s.01$. At other periods of the day the variation, if any exists, is extremely small.

Seasonal variation of day minus night differences.—The material in Period 2 for the entire program 1911–1918 was examined for a possible seasonal variation. All of the observations in right ascension south of the zenith were divided into two zones of declination, and each zone subdivided into four parts, depending on the time of year at which the observations were made. The results are shown in the following table. The subscripts indicate the number of observations.

Seasonal Variation of Day Minus Night Differences in Right Ascension

Dates \ δ	−30° to +10°	+10° to +39°	Weighted Means
	s	s	s
May 6 to Aug. 6	-0.007_{70}	$+0.008_{299}$	$+0.005_{369}$
Aug. 6 to Nov. 6	-0.006_{316}	$+0.001_{319}$	-0.002_{635}
Nov. 6 to Feb. 6	$+0.002_{115}$	$+0.003_{202}$	$+0.003_{317}$
Feb. 6 to May 6	$+0.011_{100}$	$+0.015_{182}$	$+0.014_{282}$

There is evidence of a small seasonal change. The quantities in the last column of the foregoing table are well represented by the expression

$$v = +0^s.0052 + 0^s.0015 \sin \odot + 0.0080 \cos \odot$$

where $\odot$ is the right ascension of the Sun for the middle of each period.

REDUCTION TO MEAN PLACE

The apparent right ascensions were reduced to mean place for those stars not contained in the American Ephemeris by using the independent star numbers of that volume. The short-period terms were included, except f', and for stars north of 86°.0 declination the second order terms were added.

REDUCTION TO 1910.0

In reducing the positions of the stars not contained in the American Ephemeris from the mean equator and equinox of the beginning of the year of observation to 1910.0, the precessions and secular variations were computed by means of the *Precession Tables Adapted to Newcomb's Value of the Precessional Constant and Reduced to the Epoch* 1910.0 by A. M. W. Downing.

For the stars in the American Ephemeris, the mean correction to the ephemeris for each star was applied to Newcomb's position for 1910.0, which had first been reduced by the proper motion of that catalogue to the mean epoch of observation.

Each final position is, therefore, referred to the mean equator and equinox of 1910.0, but its epoch is the mean epoch of the observations.

CLAMP EAST MINUS CLAMP WEST

The differences ½ (E − W) for each star were formed for each observer separately and the results for all the observers were then combined in zones of declination. The resulting means, multiplied by cos δ, were plotted and curves were drawn to represent the points. By means of these curves, Table IV, giving the corrections to the observed right ascensions for clamp difference, was prepared. This table was used in correcting all the direct observations in right ascension to reduce to the mean of the two clamps.

REFLECTED OBSERVATIONS IN RIGHT ASCENSION

The correction to an observed transit of a star for flexure is assumed to be

$$F = e_2 \cos z + e_3 \sin 2z + e_4 \cos 2z$$

where z, the zenith distance of the star, is reckoned positive toward the north. The term in sin z is omitted, since it can be determined only by making use of the positions in a standard catalogue. If we assume the coefficients to be positive for direct observations, Clamp East, we have

$$\begin{aligned} F &= +e_2 \cos z + e_3 \sin 2z + e_4 \cos 2z && \text{Clamp East, Direct} \\ &= -e_2 \cos z - e_3 \sin 2z + e_4 \cos 2z && \text{Clamp East, Reflected} \\ &= -e_2 \cos z + e_3 \sin 2z - e_4 \cos 2z && \text{Clamp West, Direct} \\ &= +e_2 \cos z - e_3 \sin 2z - e_4 \cos 2z && \text{Clamp West, Reflected} \end{aligned}$$

Reflected observations in right ascension were made only in 1910. These consisted of observations by HAMMOND and TILLYER of 30 stars ranging in zenith distance from $-60°$ to $+63°$. Nine of these, with declinations between $+31°$ and $-8°$, were selected as clock stars.

Since the observed right ascensions were reduced with clock corrections uncorrected for flexure, the correction to an observed right ascension will be one of the above expressions, minus its value for the mean zenith distance of the clock stars, which is $-33°$. The corrections to the observed right ascensions are therefore as follows:

$$\begin{aligned} \Delta\alpha &= +e_2 \cos z + e_3 \sin 2z + e_4 \cos 2z - 0.8\, e_2 + 0.9\, e_3 - 0.4\, e_4 && \text{Clamp East, Direct} \\ &= -e_2 \cos z - e_3 \sin 2z + e_4 \cos 2z + 0.8\, e_2 - 0.9\, e_3 - 0.4\, e_4 && \text{Clamp East, Reflected} \\ &= -e_2 \cos z + e_3 \sin 2z - e_4 \cos 2z + 0.8\, e_2 + 0.9\, e_3 + 0.4\, e_4 && \text{Clamp West, Direct} \\ &= +e_2 \cos z - e_3 \sin 2z - e_4 \cos 2z - 0.8\, e_2 - 0.9\, e_3 + 0.4\, e_4 && \text{Clamp West, Reflected} \end{aligned}$$

The differences in the observed right ascensions, $\frac{1}{2}$ (D−R) and $\frac{1}{2}$ (E−W) should be represented by the following equations:

$$\begin{aligned} \tfrac{1}{2}(\mathrm{D}-\mathrm{R})_{\mathrm{E}} &= +(0.8-\cos z)\, e_2 - (0.9+\sin 2z)\, e_3 \\ \tfrac{1}{2}(\mathrm{D}-\mathrm{R})_{\mathrm{W}} &= -(0.8-\cos z)\, e_2 - (0.9+\sin 2z)\, e_3 \\ \tfrac{1}{2}(\mathrm{E}-\mathrm{W})_{\mathrm{D}} &= +(0.8-\cos z)\, e_2 + (0.4-\cos 2z)\, e_4 \\ \tfrac{1}{2}(\mathrm{E}-\mathrm{W})_{\mathrm{R}} &= -(0.8-\cos z)\, e_2 + (0.4-\cos 2z)\, e_4 \end{aligned}$$

The following table contains the mean differences, (D−R) and (E−W), for each star:

Star	α	z	Position I				Position II			
			(D−R)		(E−W)		(D−R)		(E−W)	
			East	West	Direct	Reflected	East	West	Direct	Reflected
	h m	°	s	s	s	s	s	s	s	s
212 G. Eridani	4 16	−59.8	$+0.035_2$	$+0.030_4$	-0.015_4	-0.060_2	-0.060_2	-0.025_2	-0.075_2	-0.040_2
π Ceti	2 39	−53.1	-0.030_4	$+0.048_4$	-0.022_4	$+0.055_4$	$+0.020_4$	$+0.040_2$	-0.005_2	$+0.020_4$
γ Eridani	3 53	−52.7	-0.013_2	$+0.040_2$	-0.025_4	$+0.023_2$	-0.013_2	-0.032_4	$+0.017_2$	-0.018_4
χ Ceti	1 45	−50.0	-0.005_2	$+0.030_4$	-0.032_4	$+0.005_2$	-0.008_4	$+0.050_4$	-0.030_4	$+0.028_4$
η Ceti	1 4	−49.6	-0.030_2	$+0.052_4$	-0.052_4	$+0.040_2$	-0.035_4	$+0.005_2$	-0.055_2	-0.012_4
ζ Eridani	3 11	−48.1	-0.012_2	$+0.030_4$	0.000_4	$+0.007_2$	-0.040_4	$+0.005_2$	-0.035_2	$+0.002_4$
θ Ceti	1 19	−47.5	$+0.002_4$	$+0.002_4$	$+0.002_4$	$+0.004_4$	-0.018_4	$+0.035_4$	-0.026_4	$+0.028_4$
o^1 Eridani	4 7	−46.0	-0.025_2	$+0.010_2$	-0.020_4	$+0.015_2$	$+0.025_4$	-0.004_4	-0.006_4	-0.035_4
44 Piscium	0 20	−37.5	-0.015_2	$+0.015_2$	-0.005_4	$+0.010_2$	-0.020_4	$+0.029_4$	-0.012_4	$+0.038_4$
ν Piscium	1 36	−33.9	$+0.024_4$	-0.002_4	$+0.018_4$	-0.009_4	$+0.012_4$	$+0.002_4$	-0.005_4	-0.015_4
f Tauri	3 25	−26.3	-0.020_2	$+0.012_4$	$+0.012_4$	$+0.030_2$	$+0.002_4$	$+0.042_2$	$+0.002_4$	$+0.030_2$
δ Arietis	3 6	−19.5	-0.002_4	-0.020_4	$+0.028_4$	$+0.010_4$	$+0.006_4$	-0.012_4	$+0.036_4$	$+0.018_4$
η Tauri	3 42	−15.1	$+0.015_2$	-0.022_4	$+0.005_2$	-0.042_4	$+0.007_2$	-0.020_4	$+0.017_2$	$+0.005_4$
υ Piscium	1 14	−12.1	-0.050_4	-0.015_2	$+0.012_4$	$+0.045_2$	$+0.018_4$	-0.040_2	$+0.010_4$	-0.045_2
ζ Persei	3 48	− 7.3	-0.025_2	-0.010_2	-0.005_4	$+0.005_2$	$+0.002_4$	-0.012_4	-0.015_4	-0.030_4
δ Persei	3 36	+ 8.6	$+0.028_4$	$+0.025_2$	$+0.058_4$	$+0.062_2$	$+0.032_4$	-0.002_4	$+0.068_4$	$+0.032_4$
α Persei	3 17	+10.6	-0.055_2	-0.005_2	$+0.022_4$	$+0.060_2$	$+0.008_4$	$+0.012_4$	$+0.016_4$	$+0.020_4$
τ Persei	2 47	+13.5	0.000_4	$+0.005_4$	$+0.038_4$	$+0.042_4$	$+0.005_4$	-0.008_4	$+0.048_4$	$+0.035_4$
α Cassiopeiæ	0 35	+17.1	$+0.005_4$	-0.015_4	$+0.108_4$	$+0.088_4$	-0.015_4	$+0.040_4$	$+0.022_4$	$+0.078_4$
ρ Cassiopeiæ	23 49	+18.1	$+0.040_2$	$+0.035_4$	$+0.045_2$	$+0.048_4$	-0.015_4	$+0.032_4$	$+0.038_4$	$+0.085_4$
κ Cassiopeiæ	0 27	+23.5	-0.06_4	$+0.07_4$	$+0.06_4$	$+0.20_4$	-0.02_4	$+0.04_4$	$+0.04_4$	$+0.10_4$
ι Cassiopeiæ	2 21	+28.1	$+0.02_2$	----	$+0.14_2$	$+0.13_2$	-0.06_4	-0.04_2	$+0.04_4$	$+0.07_2$
50 Cassiopeiæ	1 55	+33.1	-0.06_4	$+0.04_4$	$+0.05_4$	$+0.14_4$	-0.07_4	$+0.06_4$	-0.01_4	$+0.12_4$
36 H. Cassiopeiæ	2 29	+33.5	-0.14_4	----	-0.10_2	$+0.25_2$	-0.02_4	$+0.04_2$	$+0.02_2$	$+0.09_4$
47 H. Cephei	2 54	+40.2	-0.10_2	$+0.23_4$	$+0.10_4$	$+0.40_4$	$+0.06_2$	$+0.08_4$	$+0.11_2$	$+0.16_4$
43 H. Cephei	0 56	+46.9	-0.58_4	$+0.72_4$	$+0.22_4$	$+1.52_4$	-0.28_4	$+0.98_4$	-0.26_4	$+1.00_4$
α Ursæ Minoris	1 26	+49.9	-2.60_4	$+2.74_4$	-0.78_4	$+4.56_4$	-0.80_4	$+2.90_4$	-0.68_4	$+3.02_4$
6 B.Urs.Min.s.p.	12 14	+52.9	$+1.88_2$	-1.39_2	-0.52_2	-3.79_2	$+1.32_4$	-1.82_4	$+0.60_4$	-2.54_4
32^2 H.Camelop.s.p.	12 48	+57.2	$+0.28_4$	-0.46_4	-0.01_4	-0.76_4	$+0.36_2$	-0.67_4	-0.10_2	-0.98_4
4 H.Draconis s.p.	12 7	+63.0	----	-0.55_4	-0.05_2	-0.45_2	$+0.20_4$	-0.32_2	$+0.10_4$	-0.58_2

The quantities in the above table were multiplied by the cosine of the declination and collected in 10 zones. The means of the differences ½ (D−R) and ½ (E−W) for the various zones are given in the following table:

Summary of the Differences ½ (D−R) and ½ (E− W) in Right Ascension

	z	East		West		Direct		Reflected	
		½ (D−R)	v	½(D−R)	v	½(E−W)	v	½(E−W)	v
	°	s	s	s	s	s	s	s	s
Position I	−55	−0. 005	+0. 005	+0. 019	+0. 009	−0. 010	−0. 004	+0. 009	−0. 005
	−49	−0. 008	−0. 003	+0. 017	+0. 012	−0. 014	−0. 012	+0. 008	0. 000
	−44	−0. 004	+0. 001	+0. 004	−0. 001	−0. 004	−0. 001	+0. 004	−0. 003
	−27	+0. 002	−0. 003	−0. 002	+0. 003	+0. 009	+0. 005	+0. 003	+0. 009
	−12	−0. 012	−0. 022	−0. 008	+0. 002	+0. 002	−0. 005	−0. 004	+0. 009
	+11	0. 000	−0. 011	+0. 002	+0. 011	+0. 012	+0. 005	+0. 017	+0. 030
	+20	−0. 004	−0. 010	+0. 008	+0. 011	+0. 020	+0. 017	+0. 013	+0. 020
	+32	−0. 012	−0. 014	+0. 006	+0. 004	+0. 006	+0. 006	+0. 027	+0. 027
	+46	−0. 018	−0. 015	+0. 023	+0. 016	+0. 004	+0. 007	+0. 042	+0. 035
	+57	+0. 021	−0. 008	−0. 032	+0. 015	−0. 004	+0. 014	−0. 048	+0. 028
Position II	−55	−0. 004	+0. 006	−0. 006	−0. 016	−0. 010	−0. 001	−0. 003	−0. 014
	−49	−0. 014	−0. 009	+0. 014	+0. 009	−0. 019	−0. 014	+0. 003	−0. 002
	−44	−0. 002	+0. 003	+0. 010	+0. 005	−0. 008	−0. 003	+0. 005	0. 000
	−27	+0. 003	−0. 002	+0. 002	+0. 007	+0. 006	+0. 001	+0. 003	+0. 008
	−12	+0. 004	−0. 007	−0. 009	0. 000	0. 000	−0. 010	−0. 008	+0. 002
	+11	+0. 005	−0. 007	0. 000	+0. 008	+0. 014	+0. 004	+0. 009	+0. 019
	+20	−0. 005	−0. 013	+0. 009	+0. 011	+0. 008	+0. 003	+0. 022	+0. 027
	+32	−0. 008	−0. 012	+0. 004	+0. 001	+0. 003	+0. 003	+0. 015	+0. 015
	+46	−0. 005	−0. 004	+0. 022	+0. 013	−0. 004	+0. 001	+0. 025	+0. 020
	+57	+0. 021	−0. 010	−0. 033	+0. 014	+0. 007	+0. 007	−0. 050	+0. 034

Forty equations of condition were formed from the data in the above table and solved with the following results:

	Position I	Position II
	s s	s s
e_2	$=-0.049\pm0.009$	-0.049 ± 0.008
e_3	$=-0.001\pm0.002$	-0.002 ± 0.002
e_4	$=+0.006\pm0.004$	$+0.001\pm0.004$

The quantities given in the table under the heading *v* are the residuals obtained from the substitution of these results in the equations of condition. The results agree closely with the adopted corrections for clamp difference given in Table IV, which were derived from a discussion of the (E − W) differences of all the direct observations.

POSITION II MINUS POSITION I

After applying corrections for relative personal equation given in Table II and Table III, the means of the observed right ascensions in Position I and Position II were taken separately for each star, giving equal weights to Clamp East and Clamp West. The differences (II − I) were then formed, allowing for proper motions when such were available, and the differences were combined in zones of declination. In the period 1909–1910 there was insufficient material for this purpose. The results for the period 1911–1918 are given in the following table. The instrument was in Position II_1 in the period 1911–1913, in Position I in the period 1913–1917, and in Position II_2 in the period 1917–1918.

δ	(II_1-I)	(II_2-I)	δ	(II_1-I)	(II_2-I)
°	s	s	°	s	s
−28	−0.010	+0.003	+ 45	−0.006	+0.001
−15	−0.006	−0.002	+ 55	−0.009	+0.010
− 5	−0.005	+0.002	+ 65	−0.02	+0.01
+ 5	−0.003	−0.004	+ 75	−0.03	+0.02
+15	−0.001	−0.003	+ 84	−0.02	+0.06
+25	−0.001	+0.004	+ 96	−0.03	+0.07
+35	−0.004	+0.002	+108	−0.02	----

These differences are so small and the reason for their existence is so obscure that it was considered inadvisable to apply corrections for them.

PROBABLE ERROR OF AN OBSERVATION

The probable error of a single observation in right ascension was computed by the formula

$$r = 0.8453 \frac{\Sigma\left(\sqrt{\frac{n}{n-1}}[v]\right)}{\Sigma n}$$

where $[v]$ is the sum of the differences between the final mean and the individual observations of a star. In 1909–1910 all the observations were used; in 1911–1918, a sufficient number of stars were selected at random to give a good determination.

The probable errors were computed in zones of declination, and the value for each zone was multiplied by cos δ, where δ is the mean declination of the zone. The results are given in the following table:

δ	$r \cos \delta$		δ	$r \cos \delta$	
	1909–1910	1911–1918		1909–1910	1911–1918
° °	s	s	° °	s	s
−35 to −20	0.026	0.025	+ 60 to + 75	0.020	0.015
−20 to 0	0.021	0.020	+ 75 to + 88	0.018	0.017
0 to +20	0.019	0.014	+ 92 to +105	0.021	0.019
+20 to +40	0.020	0.016	+105 to +120	0.023	0.022
+40 to +60	0.023	0.016			

DISCORDANT OBSERVATIONS

The final results were examined for discordant observations. In general, the original records were examined, and the computations verified, of all observations which differed from the mean for the star concerned by more than three times the probable error. If no error was found, and the observation stood out from the mean by more than six times the probable error, the observation was rejected.

UPPER CULMINATION MINUS LOWER CULMINATION

The stars observed at both upper and lower culmination in the periods 1909–1910 and 1911–1918 were 16 and 187 in number, respectively. The difference was found for each star between the final right ascension derived from observations

above the pole and that from the observations below the pole. Weights were assigned to these differences depending on the number of observations and on the probable error of an observation at each culmination. The differences were then combined in groups of approximately equal weight. The resulting mean differences multiplied by cos δ to reduce to the equator are given in the following table:

1909–1910		1911–1918	
δ	$\Delta\alpha \cos \delta$	δ	$\Delta\alpha \cos \delta$
°	s	°	s
72. 7	+0. 010	71. 1	+0. 011
80. 0	+0. 031	76. 9	+0. 009
86. 0	+0. 007	81. 4	+0. 008
88. 3	+0. 020	83. 8	+0. 010
		86. 9	+0. 011
		88. 9	+0. 003

COMPARISON WITH OTHER CATALOGUES

Period 1909–1910.—The final right ascensions, given on page 661 et seq., including the equinox correction, $-0^s.081$, were compared with the positions of Newcomb and Boss and also with the positions derived from the 1911–1918 work given on page 667 et seq. Half weight was given to those stars which were observed less than eight times. The subscripts indicate the number of stars in the various zones.

Systematic Differences in Right Ascension, $\Delta\alpha_\delta$

δ	$W^1_{10}-N$	$W^1_{10}-B$	$W^1_{10}-W_{10}$
° °	s	s	s
+115 to +102	-0.093_{13}	-0.062_{13}	$+0.051_{12}$
+102 to + 90	$+0.056_{10}$	-0.110_{10}	-0.025_{10}
+ 90 to + 78	$+0.295_{10}$	$+0.145_{10}$	$+0.120_{10}$
+ 78 to + 70	-0.056_{10}	-0.035_{10}	$+0.044_{10}$
+ 70 to + 60	-0.106_{13}	-0.048_{13}	$+0.067_{13}$
+ 60 to + 50	-0.078_{14}	-0.034_{14}	$+0.037_{14}$
+ 50 to + 39	-0.073_{13}	-0.037_{13}	$+0.024_{13}$
+ 39 to + 30	-0.087_{12}	-0.072_{12}	-0.005_{12}
+ 30 to + 20	-0.072_{23}	-0.069_{23}	-0.007_{22}
+ 20 to + 10	-0.062_{20}	-0.052_{20}	-0.006_{20}
+ 10 to 0	-0.052_{20}	-0.050_{20}	-0.004_{20}
0 to − 10	-0.053_{17}	-0.035_{17}	0.000_{17}
− 10 to − 20	-0.024_{15}	-0.031_{15}	$+0.010_{14}$
− 20 to − 38	-0.010_{14}	-0.050_{15}	-0.008_{12}
+ 30 to − 20	−0. 053	−0. 047	−0. 001

Period 1911–1918.—The final right ascensions, given on page 667 et seq., including the equinox correction, $-0^s.081$, were compared with the positions of Newcomb, Boss, the Greenwich Catalogue of Fundamental Stars for 1910, the Second Cape Fundamental Catalogue for 1900, and the Washington Catalogue of 4526 Stars

for 1900. In the last comparison the material for the Ephemeris stars was furnished by the Nautical Almanac Office, United States Naval Observatory. All stars were given equal weight.

Systematic Differences in Right Ascension, $\Delta\alpha_3$

δ	$W_{10}-N$	$W_{10}-B$	$W_{10}-W_{00}$	$W_{10}-Gr_{10}$	$W_{10}-C_{00}$
° °	s	s	s	s	s
+114 to +110	-0.139_{22}	-0.108_{22}	-0.09_{22}	-0.029_{22}	------
+110 to +105	-0.143_{29}	-0.124_{32}	-0.09_{29}	-0.046_{28}	------
+105 to +100	-0.138_{23}	-0.136_{27}	-0.10_{25}	-0.143_{23}	------
+100 to + 95	-0.209_{8}	-0.188_{29}	-0.09_{11}	-0.232_{10}	------
+ 95 to + 90	$+0.118_{12}$	-0.170_{18}	-0.27_{17}	-0.341_{16}	------
+ 90 to + 85	$+0.258_{12}$	$+0.008_{13}$	-0.01_{18}	-0.166_{16}	------
+ 85 to + 80	-0.154_{8}	-0.094_{29}	$+0.01_{11}$	-0.178_{10}	------
+ 80 to + 75	-0.105_{23}	-0.098_{27}	-0.042_{25}	-0.105_{23}	------
+ 75 to + 70	-0.103_{29}	-0.083_{32}	-0.028_{29}	-0.006_{28}	------
+ 70 to + 65	-0.117_{29}	-0.085_{37}	-0.036_{30}	-0.006_{29}	------
+ 65 to + 60	-0.108_{24}	-0.088_{39}	-0.031_{24}	-0.052_{25}	------
+ 60 to + 55	-0.113_{26}	-0.076_{56}	-0.027_{38}	-0.063_{34}	------
+ 55 to + 50	-0.101_{20}	-0.078_{39}	-0.030_{20}	-0.047_{21}	------
+ 50 to + 45	-0.097_{31}	-0.065_{50}	-0.023_{31}	-0.046_{30}	------
+ 45 to + 40	-0.082_{52}	-0.052_{71}	-0.020_{67}	-0.043_{55}	------
+ 40 to + 35	-0.078_{50}	-0.060_{76}	-0.027_{41}	-0.063_{51}	-0.006_{15}
+ 35 to + 30	-0.078_{42}	-0.067_{58}	-0.031_{43}	-0.066_{44}	0.000_{78}
+ 30 to + 25	-0.078_{44}	-0.060_{76}	-0.026_{54}	-0.061_{51}	0.000_{91}
+ 25 to + 20	-0.067_{42}	-0.057_{79}	-0.028_{57}	-0.063_{48}	$+0.002_{92}$
+ 20 to + 15	-0.064_{41}	-0.049_{73}	-0.025_{62}	-0.069_{51}	-0.004_{82}
+ 15 to + 10	-0.049_{38}	-0.050_{67}	-0.023_{57}	-0.062_{43}	$+0.003_{93}$
+ 10 to + 5	-0.053_{52}	-0.045_{86}	-0.025_{65}	-0.057_{57}	$+0.002_{104}$
+ 5 to 0	-0.053_{37}	-0.041_{75}	-0.026_{53}	-0.055_{44}	$+0.002_{89}$
0 to − 5	-0.053_{38}	-0.040_{71}	-0.022_{57}	-0.057_{43}	$+0.003_{92}$
− 5 to − 10	-0.040_{39}	-0.036_{72}	-0.019_{51}	-0.044_{40}	$+0.007_{96}$
− 10 to − 15	-0.035_{32}	-0.033_{81}	-0.023_{52}	-0.059_{42}	$+0.012_{87}$
− 15 to − 20	-0.029_{45}	-0.034_{83}	-0.024_{70}	-0.043_{56}	$+0.008_{97}$
− 20 to − 25	-0.018_{31}	-0.034_{86}	-0.026_{54}	-0.046_{41}	$+0.010_{93}$
− 25 to − 30	$+0.002_{28}$	-0.032_{69}	-0.024_{55}	-0.051_{35}	$+0.002_{101}$
− 30 to − 35	$+0.008_{25}$	-0.044_{54}	-0.031_{31}	-0.092_{13}	$+0.006_{34}$
+ 35 to − 25	−0.052	−0.046	−0.025	−0.057	+0.004

The quantities given on the bottom line of the preceding table, and of the table for the 1909–1910 work, may be regarded as the equinox corrections to the respective catalogues indicated by the two programs. It should be noted that the positions in the Greenwich catalogue are referred to the equinox of NEWCOMB's catalogue.

The mean correction to NEWCOMB and Boss for each 5-degree group from +35° to −25° declination was subtracted from the individual corrections in that group, and the residuals were arranged according to magnitude. The magnitudes were taken from the Harvard Photometric Catalogue. The results are shown in the following table:

Systematic Differences in Right Ascension, $\Delta\alpha_M$

Mean Mag.	Newcomb		Boss	
	Obs'd.	O−C	Obs'd.	O−C
	s	s	s	s
0.6	$+0.017_{10}$	+0.004	-0.015_{10}	−0.005
1.8	$+0.004_{7}$	−0.004	-0.013_{7}	−0.006
2.3	$+0.007_{11}$	+0.001	-0.005_{11}	+0.001
2.8	$+0.003_{38}$	−0.002	-0.006_{38}	−0.001
3.3	$+0.003_{43}$	0.000	-0.002_{43}	+0.001
3.8	$+0.002_{90}$	+0.001	-0.002_{92}	0.000
4.3	$+0.001_{90}$	+0.002	$+0.002_{101}$	+0.003
4.8	-0.005_{84}	−0.002	$+0.002_{113}$	+0.002
5.3	-0.004_{69}	0.000	-0.003_{179}	−0.004
5.8	0.000_{23}	+0.006	$+0.002_{201}$	0.000
6.3	-0.003_{5}	+0.005	$+0.006_{65}$	+0.003
6.8	-0.029_{3}	−0.019	$+0.005_{20}$	0.000

The mean magnitudes for NEWCOMB and Boss were 4.1 and 4.8, respectively. It was assumed that the magnitude equation for each catalogue varies uniformly with the magnitude, and the following results were obtained from least square solutions:

$$\Delta\alpha_M = (-0^s.0036 \pm 0^s.0005)\ (M-4.1) \quad \text{(NEWCOMB)}$$

$$\Delta\alpha_M = (+0^s.0023 \pm 0^s.0004)\ (M-4.8) \quad \text{(Boss)}$$

To obtain the variation with the right ascension of the corrections to NEWCOMB and Boss, the residuals used in determining the magnitude equations were arranged according to right ascension and the means were taken in 3-hour groups. The results are as follows:

Systematic Differences in Right Ascension, $\Delta\alpha_\alpha$

α	Newcomb					
	Mean Mag.	$\Delta\alpha_\alpha$	Red. to Mag. 4.1	$\Delta\alpha_\alpha$ (Mag. 4.1)	Comp.	O−C
h h		s	s	s	s	s
0– 3	4. 31	$+0.011_{55}$	+0. 001	+0. 012	+0. 009	+0. 003
3– 6	3. 75	-0.004_{69}	−0. 001	−0. 005	−0. 006	+0. 001
6– 9	3. 98	-0.012_{56}	0. 000	−0. 012	−0. 010	−0. 002
9–12	4. 39	$+0.003_{56}$	+0. 001	+0. 004	−0. 001	+0. 005
12–15	4. 31	-0.003_{51}	+0. 001	−0. 002	+0. 001	−0. 003
15–18	4. 12	-0.002_{61}	0. 000	−0. 002	−0. 004	+0. 002
18–21	4. 28	$+0.002_{61}$	+0. 001	+0. 003	0. 000	+0. 003
21–24	4. 31	$+0.008_{62}$	+0. 001	+0. 009	+0. 012	−0. 003

α	Boss					
	Mean Mag.	$\Delta\alpha_\alpha$	Red. to Mag. 4.8	$\Delta\alpha_\alpha$ (Mag. 4.8)	Comp.	O−C
h h		s	s	s	s	s
0– 3	4. 96	$+0.013_{100}$	0. 000	+0. 013	+0. 010	+0. 003
3– 6	4. 53	-0.006_{121}	+0. 001	−0. 005	−0. 004	−0. 001
6– 9	4. 82	-0.012_{119}	0. 000	−0. 012	−0. 010	−0. 002
9–12	5. 00	-0.003_{108}	0. 000	−0. 003	−0. 006	+0. 003
12–15	4. 99	-0.006_{93}	0. 000	−0. 006	−0. 003	−0. 003
15–18	4. 79	-0.003_{110}	0. 000	−0. 003	−0. 003	0. 000
18–21	4. 91	$+0.006_{115}$	0. 000	+0. 006	+0. 004	+0. 002
21–24	4. 98	$+0.010_{114}$	0. 000	+0. 010	+0. 013	−0. 003

The variation with the right ascension from Washington 1900.0, Greenwich and Cape was obtained in a similar manner, except that no magnitude correction was determined. The results between +40° and −30° declinations for Washington 1900.0 and Greenwich, and between +35° and −35° for Cape, were used.

Systematic Differences in Right Ascension, $\Delta\alpha_\alpha$

α	Washington 00				Greenwich 10			
	$W_{10}-W_{00}$	$\Delta\alpha_\alpha$	Comp.	O−C	$W_{10}-Gr_{10}$	$\Delta\alpha_\alpha$	Comp.	O−C
h h	s	s	s	s	s	s	s	s
0–3	-0.021_{92}	+0.004	+0.003	+0.001	-0.052_{74}	+0.005	+0.008	−0.003
3–6	-0.029_{95}	−0.004	−0.003	−0.001	-0.045_{80}	+0.012	+0.008	+0.004
6–9	-0.031_{89}	−0.006	−0.007	+0.001	-0.061_{73}	−0.004	−0.001	−0.003
9–12	-0.026_{90}	−0.001	−0.001	0.000	-0.062_{72}	−0.005	−0.007	+0.002
12–15	-0.022_{89}	+0.003	+0.003	0.000	-0.061_{77}	−0.004	−0.004	0.000
15–18	-0.023_{104}	+0.002	+0.001	+0.001	-0.060_{89}	−0.003	−0.002	−0.001
18–21	-0.025_{111}	0.000	0.000	0.000	-0.060_{94}	−0.003	−0.003	0.000
21–24	-0.022_{101}	+0.003	+0.003	0.000	-0.055_{87}	+0.002	0.000	+0.002

α	Cape 00			
	$W_{10}-C_{00}$	$\Delta\alpha_\alpha$	Comp.	O−C
h h	s	s	s	s
0–3	$+0.004_{148}$	0.000	−0.001	+0.001
3–6	$+0.009_{160}$	+0.005	+0.007	−0.002
6–9	$+0.014_{158}$	+0.010	+0.009	+0.001
9–12	$+0.005_{156}$	+0.001	+0.003	−0.002
12–15	$+0.001_{145}$	−0.003	−0.003	0.000
15–18	-0.001_{155}	−0.005	−0.005	0.000
18–21	-0.001_{156}	−0.005	−0.005	0.000
21–24	-0.003_{151}	−0.007	−0.005	−0.002

From the preceding tables the following expressions were derived:

$$W_{10}-N = -0^{s}.003 \sin\alpha + 0^{s}.006 \cos\alpha + 0^{s}.000 \sin 2\alpha + 0^{s}.007 \cos 2\alpha$$
$$W_{10}-B = -0.004 \sin\alpha + 0.009 \cos\alpha + 0.000 \sin 2\alpha + 0.005 \cos 2\alpha$$
$$W_{10}-W_{00} = -0.003 \sin\alpha + 0.001 \cos\alpha + 0.002 \sin 2\alpha + 0.003 \cos 2\alpha$$
$$W_{10}-Gr_{10} = +0.003 \sin\alpha + 0.005 \cos\alpha + 0.004 \sin 2\alpha - 0.001 \cos 2\alpha$$
$$W_{10}-C_{00'} = +0.007 \sin\alpha - 0.002 \cos\alpha + 0.000 \sin 2\alpha - 0.002 \cos 2\alpha$$

DECLINATIONS

The value of one revolution of the zenith distance micrometer screw used in the reduction of all the observations in declination after 1911 was derived from measures over the nadir of the lengths of three 10′ arcs of Circle A. These arcs were from 38° 50′ to 39° 0′, 38° 48′ to 38° 58′, and from 38° 46′ to 38° 56′, respectively. The adopted value is:

$$1 \text{ revolution} = 28''.500$$

The periodic and progressive errors of this screw were measured with the Stackpole comparator in 1911, 1913, and 1917. The middle of the field is designated as 40 revolutions and all the observations were made between 40 and 50 revolutions.

Progressive Errors of the Zenith Distance Micrometer Screw

Year \ Rev.	40–41	41–42	42–43	43–44	44–45	45–46	46–47	47–48	48–49	49–50
	″	″	″	″	″	″	″	″	″	″
1911	−0. 02	0. 00	0. 00	+0. 01	0. 00	0. 00	−0. 01	0. 00	0. 00	0. 00
1913	0. 00	−0. 03	−0. 01	+0. 01	+0. 02	0. 00	−0. 02	+0. 02	+0. 02	0. 00
1917	----	−0. 03	−0. 04	+0. 02	−0. 06	−0. 02	+0. 04	+0. 04	+0. 02	+0. 02

Periodic Errors of the Zenith Distance Micrometer Screw

$$\Delta = -0''.033 \cos u - 0''.010 \sin u + 0''.001 \cos 2u + 0''.000 \sin 2u \quad (1911)$$
$$= -0''.024 \cos u - 0''.014 \sin u + 0''.004 \cos 2u + 0''.006 \sin 2u \quad (1913)$$
$$= -0''.004 \cos u - 0''.004 \sin u + 0''.006 \cos 2u + 0''.004 \sin 2u \quad (1917)$$

In the above expressions u is the decimal of a revolution in angular measure.

Corrections have been applied for periodic errors but not for progressive errors. These corrections were computed from the expression,

$$\Delta = -0''.033 \cos u - 0''.010 \sin u$$

which was derived in 1911. The measures made in 1917 tend to show that the continued use of the screw has decreased these periodic errors.

The errors of the screws of the eight microscopes were measured in a similar manner in 1909 and 1910. They were found to be inappreciable. *The error of runs* was determined frequently and the microscopes were adjusted when necessary so as to keep this error small. No corrections have been applied either for the error of runs or for the errors of the microscope screws.

Inclination of the zenith distance threads.—The inclination of the zenith distance threads was determined by observations of equatorial stars. Since the stellar

focus varies with the temperature, it was found necessary to adjust the focus about four times each year. After each adjustment the inclination of the threads was redetermined.

Zenith point correction.—The values of the zenith point corrections were determined by observing the reflected images of the zenith distance threads over the mercury.

Refraction.—In 1909–1910, the preliminary corrections for refraction were computed by means of the refraction tables of Dr. L. DE BALL. In 1911–1918, the tables given in Appendix II, Volume IV, Publications of the United States Naval Observatory, Second Series, were used. The latter tables are based on the Pulkowa refraction tables.

Latitude.—In transforming observed zenith distances into declinations, a provisional value of the latitude of the instrument, +38° 55′ 14″.00, was adopted.

REDUCTION TO MEAN PLACE

The apparent declinations were reduced to mean place for those stars not contained in the American Ephemeris by using the independent star numbers of that volume. The short-period terms were included and for stars north of 86°.0 declination the second order terms were added.

REDUCTION TO 1910.0

In reducing the positions of the stars not contained in the American Ephemeris from the mean equator and equinox of the beginning of the year of observation to 1910.0, the precessions and secular variations were computed by means of the *Precession Tables Adapted to Newcomb's Value of the Precessional Constant and Reduced to the Epoch* 1910.0 by A. M. W. DOWNING.

For the stars in the American Ephemeris, the mean correction to the ephemeris for each star was applied to NEWCOMB'S position for 1910.0 which had first been reduced by the proper motion of that catalogue to the mean epoch of observation.

Each final position is therefore referred to the mean equator and equinox of 1910.0, but its epoch is the mean epoch of the observations.

CORRECTIONS FOR DIVISION ERRORS

The method employed in determining the division errors of the circles is the same as that adopted by the late Prof. LEWIS BOSS, director of the Dudley Observatory, in his determination of the graduation errors of the Olcott meridian circle at Albany. This method is fully described by him in the Astronomical Journal, Volume XVI, pp. 189–194; 197–201.

Briefly stated, it consists in directly comparing the two circles of an instrument by rotating one circle on the axis with respect to the other. For example, if it is desired to ascertain the errors of the 15° arcs of Circle A, some particular 15° arc of Circle B is chosen as a standard of comparison and all the 15° arcs of Circle A are compared with this one 15° standard arc of Circle B. In making this comparison, Circle B will have to be rotated on the axis six times, each time through an angle of 15°. The process may be repeated with other 15° arcs of Circle B as standards of comparison until all have been used, in which case the errors of the 15° arcs are determined for both circles.

Two observers, one for each circle, as well as a recorder, are necessary and it is advisable to repeat the measures with the observers interchanged.

In what follows, the correction for division error is to be understood as a quantity to be applied to the mean of four microscopes, the lines of reference being the divisions 0°, 90°, 180°, and 270°. The division corrections for the lines which are multiples of 15° were first determined for both circles with considerable accuracy, since they were used as a basis for the determination of the corrections for the other lines. The results are given in the following table:

Division Corrections for Lines which are Multiples of 15°

	Circle A					Circle B				
	15°	30°	45°	60°	75°	15°	30°	45°	60°	75°
	″	″	″	″	″	″	″	″	″	″
1909	----	----	−0.20	----	----	----	----	−0.17	----	----
	----	----	−0.05	----	----	----	----	+0.03	----	----
	----	----	−0.05	----	----	----	----	+0.01	----	----
	----	----	−0.07	----	----	----	----	+0.04	----	----
	----	+0.88	----	−0.32	----	----	+1.05	----	−0.05	----
	----	+1.07	----	−0.15	----	----	+1.14	----	+0.21	----
	----	+0.99	----	−0.31	----	----	+0.97	----	−0.23	----
	----	+1.11	----	−0.11	----	----	+0.87	----	0.00	----
	----	+1.00	----	−0.27	----	----	+1.03	----	−0.06	----
	----	+0.94	----	−0.33	----	----	+1.17	----	+0.08	----
	----	+0.89	----	−0.32	----	----	+1.04	----	+0.03	----
	----	+1.01	----	−0.22	----	----	+1.19	----	+0.05	----
	−0.80	+1.12	+0.11	−0.05	−0.78	−0.81	+1.03	+0.13	+0.06	−0.64
	−0.81	+1.12	+0.11	−0.14	−0.79	−0.96	+0.96	+0.01	+0.24	−0.61
	−0.93	+1.06	+0.09	−0.12	−0.88	−0.84	+1.02	−0.08	−0.04	−0.70
	−0.80	+1.07	+0.18	−0.08	−0.87	−0.75	+1.08	−0.07	−0.12	−0.78
	−0.84	+0.82	−0.06	−0.37	−1.16	−0.98	+0.79	−0.40	−0.17	−1.08
	−0.85	+0.94	−0.08	−0.29	−0.96	−0.75	+1.16	−0.10	−0.12	−0.69
	−0.94	+0.95	−0.13	−0.44	−0.99	−0.69	+1.22	+0.02	+0.11	−0.53
	−0.96	+1.00	+0.08	−0.27	−0.87	−0.89	+1.17	+0.10	+0.24	−0.50
	−0.97	----	----	----	−0.88	−0.72	----	----	----	−0.43
	−1.00	----	----	----	−0.94	−0.63	----	----	----	−0.58
Means, 1909	−0.89	+1.00	−0.01	−0.24	−0.91	−0.80	+1.06	−0.04	+0.01	−0.65
1910	−0.88	+1.27	−0.04	+0.05	−0.96	−0.73	+1.12	+0.06	+0.07	−0.67
	−0.72	+1.17	0.00	−0.12	−0.77	−0.84	+0.90	−0.01	−0.01	−0.59
	−0.62	+1.40	+0.17	+0.20	−0.59	−0.74	+1.30	+0.01	+0.11	−0.55
	−1.03	+1.00	0.00	−0.18	−0.97	−0.66	+1.10	0.00	−0.03	−0.61
	−0.86	+0.32	−0.02	−0.06	−0.77	−0.68	+1.10	−0.05	+0.11	−0.62
	−0.95	+1.04	−0.12	−0.28	−1.00	−0.76	+1.02	−0.12	−0.23	−0.74
Means, 1910	−0.84	+1.20	0.00	−0.06	−0.84	−0.74	+1.09	−0.02	0.00	−0.63

The marked similarity in the corrections for the two circles is noticeable. This is accounted for by the manner in which the circles were graduated. According to a letter from Warner and Swasey, the 0° line of the dividing engine corresponded to the 0° line of Circle A and to the 90° line of Circle B. Since Circle B was not used regularly and since this circle was rotated on its axis after each night's work

in order to eliminate as far as possible the effect of division error, it was considered sufficiently accurate to adopt the same division corrections for Circle B as for Circle A down to the 10′ divisions. The 2′ divisions are subject to a periodic error which is of the same amplitude but of different phase for the two circles.

The corrections to the other lines of Circle A which are multiples of 5° were next determined, based upon the corrections to the 15° lines.

Division Corrections for the Other Lines of Circle A which are Multiples of 5°

	5°	10°	20°	25°	35°	40°	50°	55°	65°	70°	80°	85°
	″	″	″	″	″	″	″	″	″	″	″	″
1909	−0. 92	−0. 38	+0. 77	+0. 10	+0. 03	+0. 59	+0. 08	−0. 96	+0. 07	+0. 23	−0. 09	−0. 34
	−1. 11	−0. 64	+0. 67	−0. 02	+0. 01	+0. 60	+0. 10	−1. 03	+0. 13	+0. 25	−0. 26	−0. 25
	−0. 81	−0. 42	+0. 82	+0. 27	+0. 15	+0. 63	+0. 17	−1. 00	+0. 17	+0. 29	+0. 07	−0. 06
	−1. 06	−0. 40	+0. 77	−0. 07	+0. 10	+0. 42	−0. 15	−1. 16	+0. 22	+0. 27	−0. 25	−0. 62
Means, 1909	−0. 98	−0. 46	+0. 76	+0. 07	+0. 07	+0. 56	+0. 05	−1. 04	+0. 15	+0. 26	−0. 13	−0. 32
1910	−0. 92	−0. 43	+0. 79	−0. 25	+0. 20	+0. 39	+0. 30	−0. 78	0. 00	+0. 01	−0. 06	−0. 46
	−0. 77	−0. 35	+1. 00	+0. 08	+0. 50	+0. 71	+0. 05	−0. 87	0. 00	+0. 37	−0. 12	−0. 36
	−0. 85	−0. 41	+1. 00	+0. 23	+0. 29	+0. 44	+0. 14	−0. 96	−0. 06	−0. 09	+0. 04	−0. 14
	−0. 80	−0. 35	+1. 30	+0. 18	+0. 09	+0. 71	−0. 06	−0. 87	+0. 12	+0. 33	0. 00	−0. 47
	−0. 89	−0. 70	+1. 14	+0. 12	+0. 06	+0. 66	−0. 29	−1. 12	+0. 01	+0. 29	+0. 07	−0. 38
	−1. 05	−0. 47	+1. 31	+0. 30	+0. 02	+0. 43	−0. 08	−0. 84	−0. 01	+0. 33	+0. 09	−0. 51
Means, 1910	−0. 88	−0. 45	+1. 09	+0. 11	+0. 19	+0. 56	+0. 01	−0. 91	+0. 01	+0. 21	0. 00	−0. 39

The corrections for the other degree lines were based on the corrections for the 5° lines. The results follow:

Division Corrections for the Other Degree Lines of Circle A

Line	1909		1910		Means	Line	1909		1910		Means
°	″	″	″	″	″	°	″	″	″	″	″
1	+0.03	−0.13	−0.43	−0.18	−0.18	46	−0.21	+0.08	−0.13	+0.03	−0.06
2	−0.20	−0.28	−0.71	−0.47	−0.42	47	+0.13	+0.15	+0.05	+0.25	+0.14
3	−0.58	−0.86	−1.04	−0.69	−0.79	48	+0.11	+0.07	+0.27	+0.03	+0.12
4	−1.00	−0.88	−1.00	−1.06	−0.98	49	+0.28	−0.02	+0.45	+0.35	+0.26
6	−0.69	−0.68	−0.61	−0.76	−0.68	51	+0.18	−0.16	+0.02	−0.06	−0.01
7	−0.80	−0.51	−0.75	−0.60	−0.67	52	+0.14	−0.40	+0.15	+0.08	−0.01
8	−0.62	−0.07	−0.33	−0.19	−0.30	53	−0.43	−0.92	+0.01	−0.23	−0.39
9	−0.46	−0.35	−0.35	−0.38	−0.38	54	−0.59	−0.89	−0.59	−1.12	−0.80
11	−0.24	0.00	−0.09	0.00	−0.08	56	−0.85	−1.05	−1.20	−0.91	−1.00
12	−0.18	+0.05	−0.17	+0.12	−0.04	57	−0.58	−0.61	−0.84	−0.33	−0.59
13	−0.64	−0.57	−0.61	−0.69	−0.63	58	−0.11	−0.07	−0.22	+0.10	−0.08
14	−0.81	−0.92	−0.69	−0.90	−0.83	59	−0.14	−0.20	−0.23	+0.18	−0.10
16	−0.44	−0.78	−0.28	−0.55	−0.51	61	−0.28	−0.17	−0.09	−0.13	−0.17
17	+0.14	−0.40	+0.30	−0.21	−0.04	62	−0.21	−0.36	−0.03	−0.25	−0.21
18	+0.18	+0.09	+0.82	+0.23	+0.33	63	−0.38	−0.26	−0.29	−0.42	−0.34
19	+0.39	+0.35	+0.82	+0.45	+0.50	64	−0.15	−0.02	−0.09	+0.12	−0.03
21	+0.66	+0.42	+1.10	+0.86	+0.76	66	+0.10	−0.17	+0.34	+0.08	+0.09
22	+0.92	+0.60	+0.98	+1.00	+0.87	67	+0.23	+0.23	+0.48	+0.17	+0.28
23	+0.53	+0.38	+0.71	+1.02	+0.66	68	+0.19	+0.59	+0.90	+0.55	+0.56
24	+0.41	+0.46	+0.75	+0.52	+0.54	69	+0.52	+0.69	+0.66	+0.73	+0.65
26	+0.33	+0.10	+0.32	+0.17	+0.23	71	+0.28	+0.18	+0.74	+0.71	+0.48
27	+0.05	+0.21	+0.41	+0.17	+0.21	72	−0.27	−0.30	+0.04	−0.17	−0.18
28	+0.28	+0.33	+0.49	+0.49	+0.40	73	−0.58	−0.59	−0.21	−0.54	−0.48
29	+0.62	+0.76	+0.72	+0.59	+0.67	74	−0.82	−0.55	−0.43	−0.68	−0.62
31	+1.09	+1.21	+1.47	+1.42	+1.30	76	−0.55	−0.64	−0.55	−0.58	−0.58
32	+0.71	+0.90	+1.17	+1.04	+0.95	77	−0.44	−0.71	−0.24	−0.18	−0.39
33	+0.34	+0.29	+0.74	+0.71	+0.52	78	−0.63	−0.76	−0.34	−0.14	−0.47
34	+0.39	+0.12	+0.36	+0.47	+0.34	79	−0.52	−0.41	−0.49	−0.42	−0.46
36	+0.27	+0.05	+0.26	+0.37	+0.24	81	+0.03	−0.03	−0.04	+0.06	0.00
37	+0.20	+0.36	+0.33	+0.56	+0.36	82	−0.06	−0.04	0.00	−0.02	−0.03
38	+0.63	+0.82	+0.60	+1.30	+0.84	83	+0.15	+0.26	+0.19	+0.13	+0.18
39	+0.61	+0.82	+0.55	+0.75	+0.68	84	−0.13	−0.17	−0.28	−0.11	−0.17
41	+0.59	+0.63	+0.70	+0.71	+0.66	86	−0.05	−0.14	−0.18	+0.21	−0.04
42	+0.50	+0.45	+0.45	+0.59	+0.50	87	−0.14	+0.15	−0.20	+0.33	+0.03
43	+0.31	+0.16	+0.17	+0.26	+0.23	88	+0.17	+0.32	+0.32	+0.82	+0.41
44	+0.04	0.00	+0.19	+0.09	+0.08	89	−0.03	+0.02	−0.05	+0.24	+0.05

Additional Determinations for the Degree Lines Between 50° and 55° and Between 70° and 75°

Lines	Corrections		Lines	Corrections	
°	″	″	°	″	″
51	−0.02	−0.05	71	+0.39	+0.50
52	−0.18	−0.31	72	−0.24	−0.38
53	−0.31	−0.44	73	−0.46	−0.47
54	−0.66	−0.75	74	−0.72	−0.66

The probable errors of the final mean corrections in the preceding tables derived from the agreement of the individual measures are:

For the 15° lines,	$r = \pm 0.022$	For 16 determinations
For the other 5° lines,	$= \pm 0.036$	For 10 determinations
For the other 1° lines,	$= \pm 0.067$	For 4 determinations

In computing the probable errors for the 5° lines and the 1° lines the errors in the base divisions were included.

Before attempting to determine the corrections to all the 10′ lines an investigation was made of the errors of these lines between two consecutive degree lines in various parts of the circle. It was found that the corrections for the 10′ lines could be interpolated from the corrections for the degree lines without serious error.

A similar investigation was made of the errors of the 2′ lines in various parts of both circles. It was found that a very regular periodic error with a period of 10′ existed and that the amplitude was the same for both circles, the phase only being different. The following periodic corrections were derived for the 2′ lines:

	2′	4′	6′	8′
	″	″	″	″
Circle A	+0. 58	−0. 34	−0. 58	−0. 45
Circle B	+0. 13	+0. 58	+1. 16	+0. 24

The work was begun in June, 1909, and completed in August, 1910.

The adopted corrections for division error are given in Table VII. The corrections for the 10′ lines have been interpolated between consecutive degree lines; the corrections for the 2′ lines have been obtained by adding the periodic corrections to the corrections for the 10′ lines.

VARIATION OF LATITUDE

The corrections for variation of latitude for the period 1909 to 1918.0 were derived from the results of the International Geodetic Association as published in various numbers of the Astronomische Nachrichten. From 1918.0 to the end of the work the corrections were based on the results obtained with the photographic zenith tube at the United States Naval Observatory, the results of the Association not being available in time for use.

During the period 1909 to 1914, inclusive, there were six stations; in 1915, four stations; and in 1916 and 1917, three stations, engaged in the work of the Association. For the years 1915 to 1917, inclusive, corrections were applied to reduce the results to the system of the six stations of the preceding years. These corrections, given in Astronomische Nachrichten No. 4908, are:

$$\begin{aligned} &\text{″} \\ \Delta x &= +0.02 \\ \Delta y &= -0.06 \\ \Delta z &= +0.03 \end{aligned}$$

A correction, +0″.14, was applied to the results of the photographic zenith tube to reduce them to the same system. This correction was obtained by comparing the results of the zenith tube with those of the Association for the years 1916 and 1917. The mean value of the variation $(\varphi - \varphi_0)$ for the period 1911 to 1918 was subtracted from the individual results to refer them to the mean pole for the period covered by the major part of the observations.

The values of $\Delta\delta$ which have been applied to the observed declinations for the effect of variation of latitude are given in Table VIII.

PERSONAL EQUATION IN DECLINATION

After applying corrections for variation of latitude, the observed declinations of the various stars for each clamp were grouped by observers. Differences were then formed for each pair of observers, and these differences arranged in order of declination, separate means being determined for stars south and north of the zenith. The results for Circle A are as follows:

1909–1910

	$\delta_U - \delta_{Hd}$		$\delta_U - \delta_T$		$\delta_{Hd} - \delta_T$	
	East	West	East	West	East	West
	″	″	″	″	″	″
South of Zenith	+0.15	−0.06	+0.05	−0.58	−0.12	−0.38
North of Zenith	−0.22	−0.19	+0.26	−0.20	+0.02	−0.01

1911–1918

	$\delta_{Hd} - \delta_{Fn}$		$\delta_{Hd} - \delta_T$		$\delta_{Fn} - \delta_T$		$\delta_{Hd} - \delta_R$		$\delta_{Hd} - \delta_{Wy}$	
	East	West	East	West	East	West	East	West	East	West
	″	″	″	″	″	″	″	″	″	″
South of Zenith	+0.16	+0.08	+0.23	+0.26	+0.03	0.00	+0.01	+0.24	+0.31	−0.06
North of Zenith	+0.08	+0.02	−0.03	−0.35	−0.19	+0.59	−0.13	−0.02	+0.03	−0.25

	$\delta_{Hd} - \delta_{An}$		$\delta_{Fn} - \delta_R$		$\delta_{Fn} - \delta_{Wy}$		$\delta_{Fn} - \delta_{An}$		$\delta_{Wy} - \delta_{An}$	
	East	West	East	West	East	West	East	West	East	West
	″	″	″	″	″	″	″	″	″	″
South of Zenith	+0.46	+0.28	−0.10	+0.13	+0.05	−0.11	+0.28	−0.05	+0.23	+0.22
North of Zenith	0.00	−0.19	−0.11	+0.03	−0.13	−0.31	−0.20	−0.20	+0.16	+0.01

Period 1909–1910.—Most of the observations in this period were made by UPDEGRAFF and HAMMOND, and the difference in personal equation for these observers is small. The results for TILLYER are based on but few observations and are consequently uncertain. No corrections for personal equation have been applied.

Period 1911–1918.—The differences for this period indicate a break at the zenith for all observers except HAMMOND and FREDERICKSON. The apparent small break for these two disappeared in another discussion, in which the azimuth stars were omitted. From the results in the preceding table, corrections were derived to reduce each observer to the system HAMMOND. In so doing, small adjustments were made so that the breaks at the zenith for TILLYER, RINES, WYLIE, and ASTON are the same for both clamps.

Preliminary Corrections to Reduce to System Hammond

	Fn.		T.		R.		Wy.		An.	
	East	West	East	West	East	West	East	West	East	West
	″	″	″	″	″	″	″	″	″	″
South of Zenith	+0. 12	+0. 05	+0. 13	+0. 22	+0. 05	+0. 18	+0. 23	−0. 05	+0. 42	+0. 17
North of Zenith	+0. 12	+0. 05	0. 00	+0. 09	−0. 08	+0. 05	+0. 02	−0. 26	+0. 04	−0. 21

These corrections were modified somewhat by a discussion of the differences, Clamp East minus Clamp West. These differences were formed for each observer and the results compared, as in the following table:

	$(E-W)_{Hd}$ minus $(E-W)_{Fn}$	$(E-W)_{Hd}$ minus $(E-W)_{T}$	$(E-W)_{Hd}$ minus $(E-W)_{R}$	$(E-W)_{Hd}$ minus $(E-W)_{Wy}$	$(E-W)_{Hd}$ minus $(E-W)_{An}$
	″	″	″	″	″
South of Zenith	+0. 08	+0. 15	−0. 29	+0. 21	+0. 35
North of Zenith	+0. 07	+0. 10	−0. 23	+0. 28	+0. 30

The final corrections for relative personal equation to reduce to the system HAMMOND, which are given in Table IX, were determined by adjusting the preliminary corrections so that the differences (E − W) should be the mean of those derived from the preliminary personal equation corrections and those in the above table.

FLEXURE

The correction to the circle reading for flexure for any star was assumed to be of the form

$$e_1 \sin z + e_2 \cos z$$

where z is the zenith distance of the star reckoned as positive in the direction in which the circle readings increase. The circle readings increase toward the south when the instrument is Clamp East.

Horizontal collimators.—The horizontal flexure, e_1, was determined with the horizontal collimators, by setting one collimator on the other and determining the zenith distances of the two collimators with the transit circle. If N and S are the circle readings on the north and south collimators, respectively, we have from the above expression

$$e_1 = \tfrac{1}{2}(N-S) - 90° \quad \text{For Clamp East}$$
$$= \tfrac{1}{2}(S-N) - 90° \quad \text{For Clamp West}$$

The following table contains the determination of e_1 made with the horizontal collimators. All of the determinations, except two made in 1909, were made with a reversing prism on the transit circle and one on the north collimator. Screens were added to the instrument in December, 1910.

Determinations of the Horizontal Flexure with the Horizontal Collimators

POSITION I

Date	Observer	Assistant	Clamp	Temp.	e_1	
					Circle A	Circle B
1909				°	″	″
Nov. 9	Hd	T	W.	50 F.	+0. 32	+0. 24
Nov. 23	Hd		E.	47	+0. 12	----
1910						
Jan. 22	Hd	T	W.	32	+0. 08	+0. 07
Sept. 11	Hd	T.; Fn	E.	75	+0. 37	+0. 40
Sept. 13	T	Hd.; Fn	E.	68	+0. 49	+0. 37
Sept. 19	Hd	T.; Fn	E.	75	+0. 64	+0. 58
Sept. 23	T	Hd	W.	72	+0. 21	+0. 17
Sept. 23	Hd	T.; Fn	W.	70	+0. 34	+0. 40
Sept. 29	T	Fn.; Hd	W.	63	+0. 08	0. 00
Sept. 29	Hd	T.; Fn	W.	62	+0. 24	+0. 26
Oct. 7	Hd	T.; Fn	E.	60	+0. 24	+0. 12
Oct. 7	T	Hd	E.	61	+0. 45	+0. 18
Means { East					$+0.38_8$	$+0.33_5$
Means { West					$+0.21_6$	$+0.19_6$

POSITION II

Date	Observer	Assistant	Clamp	Temp.	e_1	
					Circle A	Circle B
1910				°	″	″
Oct. 13	Hd	T.; Fn	E.	57 F.	−0. 03	+0. 01
Oct. 13	T	Hd.; Fn	E.	56	−0. 22	−0. 04
Oct. 20	Hd	T.; Fn	E.	71	+0. 08	+0. 18
Oct. 20	T	Hd.; Fn	E.	72	−0. 01	+0. 10
Oct. 28	Hd	Fn.; T	W.	43	0. 00	+0. 16
Oct. 28	T	Fn.; Hd	W.	42	0. 00	+0. 03
Nov. 2	Hd	T	W.	44	−0. 34	−0. 12
Nov. 3	T	Hd	W.	44	−0. 03	−0. 06
Nov. 12	Hd	T	W.	40	−0. 37	−0. 20
Nov. 12	T	Hd	W.	40	−0. 28	−0. 16
Nov. 17	Hd	T	W.	36	−0. 41	−0. 09
Nov. 17	T	Hd	W.	36	−0. 40	−0. 06
Means { East					-0.04_4	$+0.06_4$
Means { West					-0.23_8	-0.08_3

Determinations of the Horizontal Flexure with the Horizontal Collimators—Continued

POSITION II. CIRCLE A ONLY

Date	Observer	Assistant	Clamp	Temp.	e_1
1911				°	″
July 2	Hd		E.	86 F.	−0. 14
July 8	Fn		E.	77	−0. 06
Sept. 8	Hd	R	W.	72	+0. 02
Sept. 8	R	Hd	W.	72	−0. 08
Sept. 10	Fn	R	W.	73	−0. 10
Oct. 19	Hd	Fn	W.	63	−0. 06
Oct. 19	Fn	Hd	W.	63	−0. 01
Nov. 1	R	Hd	E.	46	+0. 11
1912					
Jan. 3	R	Fn	E.	36	−0. 12
Jan. 3	Fn	Hd	E.	32	+0. 06
Jan. 3	Hd	Fn	E.	32	−0. 19
Feb. 21	R	Hd	W.	36	+0. 04
Mar. 4	Hd	Fn	W.	30	+0. 19
Mar. 4	Fn	Hd	W.	30	−0. 04
Apr. 30	Hd	Fn	E.	46	−0. 24
Apr. 30	Fn	Hd	E.	46	−0. 29
May 7	R	Hd	W.	61	+0. 12
July 16	Fn	R	W.	79	−0. 03
July 16	R	Fn	W.	77	−0 16
July 17	Hd	Fn	W.	82	+0. 02
Dec. 4	R	Fn	W.	46	−0. 23
Dec. 4	Fn	Hd	W.	46	−0. 10
Dec. 4	Hd	Fn	W.	46	−0. 13
1913					
Feb. 24	Hd	Fn	E.	32	+0. 18
Feb. 24	Fn	R	E.	32	+0. 11
Feb. 24	R	Hd	E.	34	−0. 03
Apr. 29	R	Hd	E.	55	−0. 29
Apr. 29	Hd	R	E.	55	−0. 17
May 14	Fn	Hd	W.	61	−0. 07
July 16	Fn	Hd	W.	72	+0. 15
July 16	Hd	Fn	W.	72	+0. 23
Means { East					-0.08_{13}
Means { West					-0.01_{18}

POSITION I. CIRCLE A ONLY

Date	Observer	Assistant	Clamp	Temp.	e_1
1913				°	″
Oct. 7	R		E.	66 F.	−0. 10
Oct. 8	Hd		E.	68	+0. 11
Oct. 13	Fn		E.	49	+0. 10
Dec. 2	Hd		E.	50	+0. 29
Dec. 2	R		E.	50	+0. 01
Dec. 7	Fn		E.	48	+0. 30
1914					
Feb. 5	Fn		E.	37	+0. 34
Feb. 5	R		E.	35	+0. 12

Determinations of the Horizontal Flexure with the Horizontal Collimators—Continued

POSITION I. CIRCLE A ONLY

Date	Observer	Assistant	Clamp	Temp.	e_1
				°	″
1914					
Feb. 6	Hd		E.	34 F.	+0. 40
Apr. 1	Fn		W.	45	+0. 14
Apr. 1	Wy		W.	46	+0. 30
Apr. 1	Hd		W.	47	+0. 30
June 4	Fn		E.	75	−0. 32
June 4	Wy		E.	76	+0. 10
June 4	Hd		E.	70	+0. 36
Aug. 5	Fn	Hd	E.	73	+0. 21
Aug. 5	Hd	Fn	E.	73	+0. 31
Aug. 12	Wy		W.	73	+0. 34
Oct. 6	Hd		W.	70	+0. 32
Oct. 13	Wy	Hd	E.	66	+0. 20
Dec. 1	Fn	Hd	W.	54	+0. 44
Dec. 1	Hd	Fn	W.	53	+0. 30
Dec. 3	Hd	Fn	W.	54	+0. 52
Dec. 3	Fn	Hd	W.	53	+0. 31
Dec. 4	Wy		W.	43	+0. 04
1915					
Jan. 27	Fn	Hd	E.	35	+0. 40
Jan. 27	Hd	Fn	E.	35	+0. 24
Jan. 27	Wy		E.	35	−0. 17
Apr. 5	Hd	Fn	E.	52	+0. 06
Apr. 5	Fn	Hd	E.	52	+0. 02
Apr. 5	Wy	Fn	E.	53	−0. 25
June 3	Hd	Wy	W.	57	+0. 16
June 3	Fn	Hd	W.	57	−0. 13
June 3	Wy	Hd	W.	57	−0. 15
Aug. 20	Fn	Wy	W.	74	+0. 36
Aug. 20	Wy	Fn	W.	73	+0. 10
Nov. 4	Hd	Fn	E.	46	+0. 12
Nov. 4	Fn	Hd	E.	47	+0. 07
Nov. 5	Wy	Hd	E.	48	+0. 34
1916					
Mar. 6	Fn	Hd	W.	28	+0. 12
Mar. 6	Hd	Wy	W.	28	+0. 22
Mar. 6	Wy	Hd	W.	28	+0. 14
July 12	Hd	Fn	E.	80	+0. 69
July 12	Wy	Fn	E.	81	+0. 50
July 12	Fn	Hd	E.	80	+0. 48
Oct. 13	Fn	Hd	W.	58	+0. 11
Oct. 13	Wy	Hd	W.	58	+0. 22
Oct. 13	Hd	Wy	W.	58	+0. 18
1917					
Jan. 16	Hd	Fn	E.	24	+0. 30
Jan. 16	Fn	Hd	E.	24	+0. 22
Apr. 24	Fn	Wy	E.	51	+0. 53
Apr. 24	Hd	Wy	E.	51	+0. 36
Apr. 24	Wy	Hd	E.	51	−0. 02
Apr. 25	Fn	Hd	W.	53	+0. 04
Apr. 25	Hd	Wy	W.	53	+0. 15
Apr. 25	Wy	Fn	W.	53	+0. 02
Means { East					$+0.20_{32}$
Means { West					$+0.19_{24}$

Determinations of the Horizontal Flexure with the Horizontal Collimators—Continued

POSITION II. CIRCLE A ONLY

Date	Observer	Assistant	Clamp	Temp.	e_1
1917				°	″
Aug. 24.3	Hd		E.	76 F.	+0. 20
Aug. 24.3	Wy	Fn	E.	76	+0. 07
Aug. 24.3	Fn	Wy	E.	75	−0. 05
Dec. 5.3	Hd	Wy	W.	36	+0. 08
Dec. 5.3	Wy	Fn	W.	36	+0. 18
Dec. 5.3	Fn	Hd	W.	36	+0. 02
1918					
Mar. 1.3	Fn	Hd	E.	43	+0. 22
Mar. 1.3	Wy	Fn	E.	43	+0. 15
Mar. 1.3	Hd	Wy	E.	43	+0. 30
June 28.3	Hd	Wy	W.	76	0. 00
June 28.3	Wy	Hd	W.	76	−0. 01
July 8.3	Hd	Wy	E.	70	+0. 30
July 27.3	Fn	Wy	E.	80	+0. 44
July 27.3	Wy	Fn	E.	79	+0. 49
Oct. 3.4	Hd	Wy	W.	62	+0. 13
Oct. 3.4	Wy	Fn	W.	62	+0. 08
Oct. 3.4	Fn	Hd	W.	62	+0. 36
Oct. 4.3	Fn	Hd	E.	64	+0. 32
Oct. 4.3	Hd	Fn	E.	64	+0. 20
Oct. 5.5	Wy		E.	68	+0. 19
Means { East					+0. 24_{12}
Means { West					+0. 10_8

Vertical collimator.—The vertical collimator is mounted horizontally on a pillar on the east pier and is provided with a mirror in front of the objective inclined at an angle of 45° with the horizontal, so that the movable wires of the collimator can be made to coincide with their reflected images from the nadir basin. If B

and C are the circle readings of the instrument on the nadir and on the collimator wires respectively, we have

$$e_2 = \tfrac{1}{2}(B - C) \pm 90^\circ \quad \text{For either clamp}$$

No determinations with the vertical collimator were made in 1909–1910. The following table gives the results for the 1911–1918 work:

Determinations of the Vertical Flexure with the Vertical Collimator

POSITION II. CIRCLE A ONLY

Date	Observer	Assistant	Clamp	Temp.	e_2
				°	″
1912					
Feb. 26	Hd	Fn	W.	41 F.	+0. 11
Feb. 26	Fn	R	W.	41	+0. 04
Feb. 26	R	Fn	W.	41	−0. 03
Dec. 5	Hd	Fn	W.	48	+0. 05
Dec. 5	Fn	Hd	W.	48	+0. 16
Dec. 5	R	Fn	W.	48	−0. 30
Dec. 6	R	Fn	W.	45	−0. 42
Dec. 7	Fn	Hd	W.	45	−0. 03
Dec. 7	R	Fn	W.	45	−0. 24
1913					
Sept. 24	Hd		E.	63	+0. 18
Sept. 24	R	Hd	E.	63	+0. 40
Mean					-0.01_{11}

Determinations of the Vertical Flexure with the Vertical Collimator—Continued

POSITION I. CIRCLE A ONLY

Date	Observer	Assistant	Clamp	Temp.	c_2
				°	″
1913					
Oct. 6	R	Hd	E.	67 F.	+0.18
Oct. 7	Hd	R	E.	67	−0.02
1914					
June 19	Hd	Fn	W.	77	+0.23
June 19	Hd		W.	67	+0.25
June 19	Fn		W.	70	+0.22
June 19	Wy	Fn	W.	68	+0.08
1915					
Mar. 16	Fn	Hd	W.	42	−0.24
Mar. 16	Hd	Fn	W.	42	−0.15
Mar. 16	Wy	An	W.	41	−0.52
Mar. 17	An	Fn	W.	38	−0.20
Mar. 18	Hd	Fn	E.	45	+0.47
Mar. 18	Fn	Hd	E.	44	+0.38
Mar. 18	Wy	Hd	E.	41	+0.47
Mar. 18	An	Wy	E.	39	+0.48
Nov. 12	Hd	Fn	W.	57	+0.21
Nov. 12	Fn	Wy	W.	59	−0.09
Nov. 12	Wy	Fn	W.	58	+0.02
1916					
May 22	Hd	Fn	W.	61	−0.51
May 22	Wy	Fn	W.	61	−0.42
May 23	Fn	Hd	W.	61	−0.60
May 24	Hd	Fn	E.	66	+0.70
May 24	Wy	Fn	E.	65	+0.68
May 25	Fn	Wy	E.	--	+0.24
1917					
Apr. 25	Hd	Fn	E.	55	+0.22
Apr. 25	Fn	Wy	E.	55	+0.14
Apr. 25	Wy	Hd	E.	55	+0.51
Apr. 25	Hd	Fn	W.	56	+0.09
Apr. 25	Fn	Wy	W.	56	−0.13
Apr. 25	Wy	Hd	W.	56	−0.06
Mean					$+0.09_{29}$]

Determinations of the Vertical Flexure with the Vertical Collimator—Continued

POSITION II. CIRCLE A ONLY

Date	Observer	Assistant	Clamp	Temp.	e_2
1917				°	″
Nov. 8	Hd	Wy	E.	49 F.	−0. 05
Nov. 8	Fn	Hd	E.	52	−0. 29
Nov. 8	Wy	Fn	E.	54	−0. 15
Nov. 9	Hd	Wy	W.	59	−0. 21
Nov. 9	Fn	Hd	W.	54	+0. 22
Nov. 9	Wy	Fn	W.	54	+0. 10
1918					
Oct. 3	Fn	Hd	W.	66	−0. 15
Oct. 3	Wy	Hd	W.	66	−0. 45
Oct. 3	Hd	Wy	W.	66	−0. 22
Oct. 4	Wy	Fn	E.	64	+0. 25
Oct. 4	Hd	Fn	E.	64	+0. 21
Oct. 4	Fn	Hd	E.	64	+0. 15
Mean					-0.05_{12}

The following mean values of e_1 and e_2 were derived from the preceding determinations with the collimators. The probable errors are those resulting from the agreement between the individual measures.

Period	Position	e_1	e_2
		″ ″	″ ″
1909–1910	I	+0. 28±0. 081	---- -----
1910	II	−0. 10±0. 075	---- -----
1911–1913	II	−0. 04±0. 017	−0. 01±0. 048
1913–1917	I	+0. 20±0. 018	+0. 09±0. 043
1917–1918	II	+0. 18±0. 022	−0. 05±0. 045

Direct and reflected observations.—If the zenith distance of a star, z, is taken as positive toward the north and negative toward the south, for both clamps, the correction to an observed declination above the pole for flexure is

$$\left.\begin{aligned} \Delta\delta &= -e_2+\Delta N+e_1 \sin z-e_2 \cos z \quad \text{Clamp East, Direct} \\ &= +e_2-\Delta N-e_1 \sin z-e_2 \cos z \quad \text{Clamp East, Reflected} \\ &= +e_2-\Delta N+e_1 \sin z+e_2 \cos z \quad \text{Clamp West, Direct} \\ &= -e_2+\Delta N-e_1 \sin z+e_2 \cos z \quad \text{Clamp West, Reflected} \end{aligned}\right\} \quad (1)$$

The quantity ΔN has been introduced to take account of any error in the adopted corrections for division error of the nadir divisions.

If (R−D) is the difference between reflected and direct observed declinations, then we have for stars above the pole

$$\left.\begin{aligned} \tfrac{1}{2}(\mathrm{R}-\mathrm{D}) &= -e_2+\Delta N+e_1 \sin z \quad \text{Clamp East} \\ &= +e_2-\Delta N+e_1 \sin z \quad \text{Clamp West} \end{aligned}\right\} \quad (2)$$

If z_1 and z_2 are the values of z for two different stars or groups of stars and if $(R-D)_1$ and $(R-D)_2$ are the corresponding values of $(R-D)$, we have for either clamp,

$$(\sin z_1 - \sin z_2)\, e_1 = \tfrac{1}{2}(R-D)_1 - \tfrac{1}{2}(R-D)_2 \qquad (3)$$

This equation will yield the strongest values of e_1 when stars on opposite sides of the zenith are used.

If $(E-W)$ is the difference between observed declinations in the two clamps, we have for stars above the pole

$$\left.\begin{aligned} \tfrac{1}{2}(E-W) &= e_2(\cos z + 1) - \Delta N \quad \text{Direct observations} \\ &= e_2(\cos z - 1) + \Delta N \quad \text{Reflected observations} \end{aligned}\right\} \qquad (4)$$

and therefore

$$e_2 \cos z = \tfrac{1}{4}(E-W)_D + \tfrac{1}{4}(E-W)_R \qquad (5)$$

Period 1909–1910.—The following table shows the results of direct and reflected observations made by HAMMOND from October 30 to November 27, 1909. The stars were observed both direct and reflected on the same night.

Direct and Reflected Observations—Series 1

POSITION I. CIRCLE A ONLY. NO REVERSING PRISM

Star	α	δ	$\frac{1}{2}(R-D)$		$\frac{1}{2}(E-W)$	
			East	West	Direct	Reflected
	h m	°	″	″	″	″
i^1 Aquarii	23 39	−57. 7	−0. 55_5	−0. 30_5	+0. 13_5	−0. 12_5
ι Ceti	0 14	−48. 2	−0. 05_3	−0. 04_4	+0. 35_3	+0. 33_3
12 Ceti	0 25	−43. 4	−0. 44_5	−0. 22_4	+0. 07_4	−0. 04_4
ϵ Piscium	0 58	−31. 5	−0. 35_3	0. 00_4	+0. 14_3	−0. 21_3
β Arietis	1 49	−18. 5	−0. 20_4	−0. 65_1	−0. 40_2	+0. 04_2
υ Piscium	1 14	−12. 1	+0. 32_4	+0. 17_3	−0. 08_4	+0. 07_4
ϵ Andromedæ	0 34	−10. 1	−0. 02_5	−0. 32_4	−0. 20_4	+0. 11_4
φ Persei	1 38	+11. 3	0. 00_4	−0. 48_2	−0. 02_3	+0. 47_3
β Cassiopeiæ	0 4	+19. 8	−0. 13_5	−0. 30_4	−0. 30_4	−0. 14_5
Gr. 4163	23 50	+35. 0	−0. 26_0	−0. 06_4	−0. 10_4	−0. 31_4
44 H. Cephei	1 4	+40. 3	−0. 24_5	+0. 08_4	−0. 05_4	−0. 36_4
α Ursæ Minoris	1 26	+49. 9	−0. 45_4	−0. 05_4	+0. 20_4	−0. 19_4
32^2 H. Camelop. s. p	12 48	+57. 2	−0. 34_5	−0. 16_4	+0. 06_4	−0. 11_4

The following tables show the results of direct and reflected observations made from September to November, 1910. Two observers, HAMMOND and TILLYER, took part in the observations, the stars being observed direct on one night and reflected on another. A reversing prism was used which was kept in one position throughout a night and the micrometer and objective were interchanged after the series was half completed. Both circles were read on the same bisection of a star.

Direct and Reflected Observations—Series 2

POSITION I. CIRCLES A AND B. REVERSING PRISM

Star	α	z	½ (R−D)				½ (E−W)			
			East		West		Direct		Reflected	
			Circle A	Circle B	Circle A	Circle B	Circle A	Circle B	Circle A	Circle B
	h m	°	″	″	″	″	″	″	″	″
212 G. Eridani	4 16	−59.8	−0.70$_2$	−0.66$_2$	−0.64$_4$	−0.74$_4$	+0.01$_4$	+0.25$_4$	−0.19$_2$	+0.24$_2$
π Ceti	2 39	−53.1	−0.83$_2$	−0.38$_2$	−0.21$_4$	−0.54$_4$	+0.24$_4$	−0.19$_4$	−0.32$_2$	+0.04$_2$
γ Eridani	3 53	−52.7	−0.82$_2$	−0.37$_2$	−0.66$_2$	−0.91$_2$	+0.26$_4$	−0.03$_4$	+0.02$_2$	+0.30$_2$
χ Ceti	1 45	−50.0	−1.00$_2$	−0.58$_2$	−0.69$_4$	−0.48$_4$	+0.06$_4$	−0.01$_4$	−0.26$_2$	−0.22$_2$
η Ceti	1 4	−49.6	−0.66$_4$	−0.42$_4$	−0.36$_4$	−0.57$_4$	+0.07$_4$	−0.18$_4$	−0.24$_4$	−0.04$_4$
ζ Eridani	3 11	−48.1	−0.80$_2$	−0.32$_2$	−0.68$_4$	−0.72$_4$	−0.09$_4$	−0.41$_4$	−0.26$_2$	+0.02$_2$
θ Ceti	1 19	−47.5	−0.41$_4$	+0.15$_4$	−0.54$_4$	−0.81$_4$	0.00$_4$	−0.42$_4$	+0.12$_4$	+0.54$_4$
o^1 Eridani	4 7	−46.0	−1.10$_2$	−0.74$_2$	−0.81$_2$	−0.94$_2$	−0.04$_4$	−0.16$_4$	−0.06$_2$	+0.17$_2$
44 Piscium	0 20	−37.5	−0.70$_4$	−0.10$_4$	−0.38$_2$	−0.52$_2$	+0.14$_4$	−0.34$_4$	−0.21$_2$	+0.32$_2$
ν Piscium	1 36	−33.9	−0.38$_4$	−0.13$_4$	−0.48$_4$	−0.72$_4$	+0.17$_4$	−0.09$_4$	+0.27$_4$	+0.50$_4$
f Tauri	3 25	−26.3	−0.70$_2$	−0.32$_2$	−0.33$_4$	−0.58$_4$	+0.10$_4$	−0.15$_4$	−0.10$_2$	+0.22$_2$
δ Arietis	3 6	−19.5	−0.57$_2$	−0.24$_2$	−0.53$_4$	−0.53$_4$	−0.20$_4$	−0.48$_4$	−0.28$_2$	−0.20$_2$
η Tauri	3 42	−15.1	+0.10$_2$	+0.04$_2$	−0.54$_2$	−0.26$_2$	----	----	+0.20$_4$	+0.05$_4$
υ Piscium	1 14	−12.1	−0.12$_4$	−0.24$_4$	−0.65$_4$	−0.61$_4$	−0.42$_4$	−0.48$_4$	+0.12$_4$	−0.11$_4$
ζ Persei	3 48	−7.3	−0.28$_2$	−0.13$_2$	−0.81$_2$	−0.38$_2$	−0.52$_4$	−0.33$_4$	+0.08$_2$	−0.09$_2$
δ Persei	3 36	+8.6	−0.06$_4$	+0.07$_4$	−0.06$_2$	−0.56$_2$	−0.23$_4$	−0.19$_4$	−0.08$_2$	+0.50$_2$
α Persei	3 17	+10.6	+0.02$_4$	−0.05$_4$	−0.34$_2$	−0.18$_2$	−0.20$_4$	+0.22$_4$	+0.28$_2$	+0.36$_2$
τ Persei	2 47	+13.5	+0.27$_4$	+0.24$_4$	−0.17$_4$	−0.29$_4$	−0.16$_4$	−0.03$_4$	+0.28$_4$	+0.50$_4$
α Cassiopeiæ	0 35	+17.1	−0.10$_4$	−0.06$_4$	−0.15$_4$	−0.28$_4$	−0.20$_4$	−0.13$_4$	−0.16$_4$	+0.09$_4$
ρ Cassiopeiæ	23 49	+18.1	+0.15$_2$	+0.38$_2$	+0.05$_4$	−0.12$_4$	−0.10$_2$	−0.32$_2$	−0.06$_4$	+0.41$_4$
κ Cassiopeiæ	0 27	+23.5	−0.08$_4$	+0.10$_4$	+0.22$_4$	−0.15$_4$	+0.11$_4$	−0.20$_4$	−0.19$_4$	+0.05$_4$
ι Cassiopeiæ	2 21	+28.1	−0.14$_2$	+0.43$_2$	−0.03$_4$	−0.10$_4$	+0.11$_4$	−0.02$_4$	+0.02$_2$	+0.47$_2$
50 Cassiopeiæ	1 55	+33.1	−0.32$_4$	−0.02$_4$	+0.17$_4$	−0.09$_4$	+0.27$_4$	+0.10$_4$	−0.22$_4$	+0.18$_4$
36 H. Cassiopeiæ	2 29	+33.5	−0.24$_4$	+0.19$_4$	+0.39$_2$	−0.14$_2$	+0.27$_4$	−0.10$_4$	−0.42$_2$	+0.06$_2$
47 H. Cephei	2 54	+40.2	+0.16$_4$	+0.50$_4$	+0.06$_2$	−0.04$_2$	+0.05$_4$	−0.02$_4$	−0.02$_2$	+0.28$_2$
43 H. Cephei	0 56	+46.9	−0.11$_4$	+0.40$_4$	+0.54$_4$	+0.07$_4$	+0.31$_4$	−0.12$_4$	−0.35$_4$	+0.22$_4$
α Ursæ Minoris	1 26	+49.9	+0.09$_4$	+0.34$_2$	+0.17$_4$	+0.06$_4$	+0.07$_4$	+0.26$_2$	−0.01$_4$	+0.47$_4$
6 B. Urs. Min. S. P	12 14	+52.9	+0.20$_2$	−0.22$_2$	−0.02$_4$	+0.48$_4$	−0.30$_2$	+0.60$_2$	−0.31$_4$	−0.72$_4$
32^2 H. Camelop. S. P	12 48	+57.2	+0.12$_4$	−0.14$_2$	−0.39$_4$	−0.15$_4$	−0.11$_4$	−0.01$_4$	+0.40$_4$	0.00$_4$
4 H. Draconis S. P	12 7	+63.0	----	----	−0.65$_2$	−0.32$_2$	−0.23$_2$	+0.57$_2$	+0.46$_2$	+0.06$_2$

Direct and Reflected Observations—Series 2—Continued

POSITION II. CIRCLES A AND B. REVERSING PRISM

Star	α	z	½ (R−D)				½ (E−W)			
			East		West		Direct		Reflected	
			Circle A	Circle B	Circle A	Circle B	Circle A	Circle B	Circle A	Circle B
	h m	°	″	″	″	″	″	″	″	″
212 G. Eridani	4 16	−59. 8	−0. 24_2	−0. 04_2	+0. 08_2	+0. 10_2	+0. 12_2	−0. 08_2	−0. 19_2	−0. 22_2
π Ceti	2 39	−53. 1	−0. 78_4	−0. 85_4	−0. 15_2	+0. 02_2	+0. 26_2	+0. 18_2	−0. 37_4	−0. 47_4
γ Eridani	3 53	−52. 7	−0. 92_2	−1. 16_2	−0. 14_4	−0. 13_4	+0. 48_2	+0. 68_2	−0. 50_4	−0. 59_4
χ Ceti	1 45	−50. 0	−0. 52_4	−0. 78_4	−0. 34_4	−0. 18_4	−0. 20_4	+0. 04_4	−0. 38_4	−0. 56_4
η Ceti	1 4	−49. 6	−0. 67_4	−0. 90_4	−0. 66_2	−0. 38_2	−0. 24_2	+0. 16_2	−0. 25_4	−0. 37_4
ζ Eridani	3 11	−48. 1	−0. 69_4	−0. 84_4	−0. 28_2	+0. 05_2	+0. 40_2	+0. 32_2	−0. 26_4	−0. 53_4
θ Ceti	1 19	−47. 5	−0. 82_4	−1. 18_4	−0. 48_2	−0. 28_2	−0. 03_4	+0. 23_4	−0. 26_2	−0. 64_2
o^1 Eridani	4 7	−46. 0	−0. 66_4	−0. 72_4	−0. 28_4	+0. 11_4	+0. 13_4	+0. 39_4	−0. 25_4	−0. 43_4
44 Piscium	0 20	−37. 5	−0. 73_4	−0. 72_4	−0. 48_2	−0. 33_4	−0. 12_2	+0. 06_4	−0. 51_4	−0. 33_4
ν Piscium	1 36	−33. 9	−0. 31_4	−0. 63_4	−0. 19_4	−0. 18_4	−0. 22_4	+0. 03_4	−0. 34_4	−0. 42_4
f Tauri	3 25	−26. 3	−0. 54_4	−0. 37_4	−0. 34_2	−0. 16_2	+0. 02_4	+0. 19_4	−0. 12_2	−0. 05_2
δ Arietis	3 6	−19. 5	−0. 36_4	−0. 38_4	−0. 70_4	−0. 53_4	−0. 36_4	−0. 16_4	−0. 03_4	−0. 02_4
η Tauri	3 42	−15. 1	+0. 06_2	−0. 32_2	−0. 53_4	−0. 39_4	−0. 27_2	+0. 08_2	0. 00_4	−0. 18_4
υ Piscium	1 14	−12. 1	−0. 15_4	−0. 22_4	0. 00_4	−0. 12_4	−0. 19_4	−0. 16_4	−0. 34_4	−0. 27_4
ζ Persei	3 48	− 7. 3	−0. 38_4	−0. 22_4	−0. 44_4	−0. 20_4	−0. 15_4	−0. 20_4	−0. 08_4	−0. 22_4
δ Persei	3 36	+ 8. 6	−0. 22_2	+0. 11_2	−0. 44_4	−0. 52_4	+0. 03_2	−0. 32_2	+0. 09_4	+0. 03_4
α Persei	3 17	+10. 6	+0. 19_4	−0. 02_4	−0. 47_4	−0. 24_4	−0. 30_4	−0. 27_4	+0. 36_4	−0. 04_4
τ Persei	2 47	+13. 5	−0. 04_4	−0. 26_4	−0. 37_4	−0. 14_4	−0. 33_4	−0. 36_4	0. 00_4	−0. 47_4
α Cassiopeiæ	0 35	+17. 1	0. 00_4	−0. 10_4	−0. 53_4	−0. 08_4	−0. 25_4	−0. 23_4	+0. 28_4	−0. 24_4
ρ Cassiopeiæ	23 49	+18. 1	−0. 10_4	−0. 26_4	+0. 18_4	0. 00_4	+0. 19_4	+0. 15_4	−0. 10_4	−0. 11_4
κ Cassiopeiæ	0 27	+23. 5	+0. 13_4	−0. 06_4	−0. 14_2	−0. 56_2	−0. 07_2	−0. 22_2	+0. 07_4	+0. 09_4
ι Cassiopeiæ	2 21	+28. 1	−0. 14_4	−0. 30_4	+0. 26_2	+0. 35_2	+0. 20_4	−0. 08_4	−0. 19_2	−0. 36_2
50 Cassiopeiæ	1 55	+33. 1	−0. 08_4	−0. 12_4	+0. 05_4	+0. 26_4	−0. 18_4	−0. 18_4	−0. 31_4	−0. 56_4
36 H. Cassiopeiæ	2 29	+33. 5	0. 00_4	+0. 04_4	+0. 22_2	−0. 05_2	−0. 12_2	−0. 29_2	−0. 38_4	−0. 38_4
47 H. Cephei	2 54	+40. 2	+0. 38_2	+0. 33_2	−0. 08_4	+0. 22_4	+0. 10_2	+0. 20_2	+0. 03_4	−0. 27_4
43 H. Cephei	0 56	+46. 9	+0. 02_4	−0. 11_4	−0. 03_4	+0. 03_4	−0. 07_4	+0. 14_4	−0. 02_4	0. 00_4
α Ursæ Minoris	1 26	+49. 9	−0. 22_4	−0. 41_4	+0. 33_2	+0. 88_2	+0. 26_2	+0. 73_2	−0. 21_4	−0. 61_4
6 B. Urs. Min. s. p	12 14	+52. 9	−0. 28_4	−0. 36_4	−0. 05_4	−0. 14_4	+0. 06_4	−0. 08_4	−0. 16_4	−0. 30_4
32^2 H. Camelop. s. p	12 48	+57. 2	−0. 31_2	+0. 14_2	+0. 10_4	−0. 04_4	+0. 57_2	+0. 14_2	+0. 02_4	+0. 05_4
4 H. Draconis s. p	12 7	+63. 0	−0. 14_4	−0. 20_4	+0. 11_2	+0. 04_2	+0. 37_4	+0. 14_4	−0. 02_2	−0. 15_2

The following table contains a summary of the results for Series 2, each quantity tabulated being the mean for three stars.

Summary of the Results for Series 2

	z	½ (R−D)				½ (E−W)			
		East		West		Direct		Reflected	
		Circle A	Circle B	Circle A	Circle B	Circle A	Circle B	Circle A	Circle B
	°	″	″	″	″	″	″	″	″
Position I	−55	−0.78	−0.47	−0.47	−0.70	+0.17	+0.01	−0.16	+0.19
	−49	−0.78	−0.44	−0.58	−0.59	+0.01	−0.21	−0.25	−0.07
	−44	−0.66	−0.13	−0.57	−0.77	+0.03	−0.30	0.00	+0.40
	−27	−0.51	−0.20	−0.45	−0.61	+0.02	−0.24	+0.04	+0.25
	−12	−0.10	−0.14	−0.66	−0.46	−0.46	−0.40	+0.14	−0.04
	+11	+0.08	+0.08	−0.18	−0.33	−0.20	0.00	+0.19	+0.46
	+19	−0.04	+0.09	+0.04	−0.19	−0.06	−0.20	−0.14	+0.18
	+31	−0.25	+0.15	+0.13	−0.10	+0.22	−0.01	−0.21	+0.22
	+46	+0.05	+0.43	+0.30	+0.04	+0.14	0.00	−0.15	+0.33
	+58	+0.14	−0.17	−0.29	+0.07	−0.19	+0.29	+0.13	−0.27
Position II	−55	−0.68	−0.72	−0.09	−0.04	+0.29	+0.26	−0.39	−0.47
	−49	−0.63	−0.84	−0.40	−0.17	−0.06	+0.14	−0.30	−0.49
	−44	−0.74	−0.87	−0.38	−0.14	+0.02	+0.23	−0.35	−0.43
	−27	−0.40	−0.46	−0.42	−0.31	−0.19	+0.02	−0.18	−0.19
	−12	−0.20	−0.24	−0.32	−0.24	−0.19	−0.13	−0.14	−0.22
	+11	+0.02	−0.09	−0.43	−0.30	−0.24	−0.32	+0.15	−0.16
	+19	+0.01	−0.14	−0.17	−0.14	−0.04	−0.08	+0.08	−0.09
	+31	−0.08	−0.13	+0.14	+0.20	−0.02	−0.16	−0.31	−0.45
	+46	−0.01	−0.14	+0.02	+0.28	+0.06	+0.30	−0.07	−0.29
	+58	−0.23	−0.19	+0.04	−0.06	+0.29	+0.05	−0.06	−0.13

For discussing the flexure during the period 1909–1910, there were also available the differences in declination, Clamp East minus Clamp West, based on the other observations made in this period. The means of these differences arranged in zones of approximately equal weight are given in the following table:

Summary of Differences ½ (E− W) for Direct Observations, 1909–1910

POSITION I. CIRCLES A AND B. NO PRISM

z	½ (E−W)		z	½ (E−W)		z	½ (E−W)	
	Circle A	Circle B		Circle A	Circle B		Circle A	Circle B
°	″	″	°	″	″	°	″	″
−67	+0.10	−0.10	−30	−0.01	−0.15	+ 5	−0.14	−0.22
−60	+0.24	−0.11	−28	+0.17	−0.05	+13	−0.17	−0.07
−55	+0.17	−0.24	−24	−0.14	−0.15	+21	−0.23	+0.03
−51	+0.09	−0.01	−19	−0.02	−0.13	+28	−0.12	−0.08
−44	+0.05	−0.31	−15	+0.07	−0.05	+35	+0.06	+0.04
−39	+0.04	−0.01	−12	−0.17	+0.02	+45	−0.02	0.00
−36	+0.09	−0.21	− 9	−0.02	−0.14	+56	−0.16	−0.08
−33	+0.04	−0.18	− 5	−0.10	−0.08	+68	+0.02	−0.06

In forming the differences in the preceding tables, the only corrections applied to the observed declinations were those for variation of latitude, and it should be noted that the signs of the differences for observations made below the pole must be changed to make them comparable with the differences above the pole.

The vertical flexure e_2 and the correction ΔN, defined above, might be determined from the differences, Clamp East minus Clamp West, resulting from the direct observations, by the equation

$$\tfrac{1}{2}\,(\mathrm{E}-\mathrm{W})=e_2\,(\cos z+1)-\Delta N$$

However, the coefficient of e_2 in this equation changes so slowly with the zenith distance that this is not practicable. Solutions for e_2 were therefore made using equation (5),

$$e_2 \cos z=\tfrac{1}{4}\,(\mathrm{E}-\mathrm{W})_{\mathrm{D}}+\tfrac{1}{4}\,(\mathrm{E}-\mathrm{W})_{\mathrm{R}}$$

The resulting values of e_2 are

Vertical Flexure, e_2, from Observations of Stars

	Position I		Position II	
	Circle A	Circle B	Circle A	Circle B
	″	″	″	″
Series 1	−0. 04	----	----	----
Series 2	−0. 04	+0. 05	−0. 13	−0. 16

These values of e_2 were substituted in equations (4) to obtain ΔN, with the following results:

Values of ΔN from Observations of Stars

	Direct				Reflected			
	Position I		Position II		Position I		Position II	
	Circle A	Circle B	Circle A	Circle B	Circle A	Circle B	Circle A	Circle B
	″	″	″	″	″	″	″	″
Series 1	−0. 05	----	----	----	−0. 03	----	----	----
Series 2	−0. 08	+0. 25	−0. 17	−0. 31	−0. 07	+0. 26	−0. 17	−0. 30
Other direct observations	−0. 07	+0. 17	----	----	----	----	----	----

The horizontal flexure, e_1, was derived from the direct and reflected observations by the use of equation (3)

$$(\sin z_1-\sin z_2)\,e_1=\tfrac{1}{2}\,(\mathrm{R}-\mathrm{D})_1-\tfrac{1}{2}\,(\mathrm{R}-\mathrm{D})_2$$

Observations of stars or groups of stars on opposite sides of the zenith and at about the same zenith distance were combined to form an equation of condition. The solution of the equations of condition gave the following results:

Horizontal Flexure, e_1, from Observations of Stars

	Position I				Position II			
	Clamp East		Clamp West		Clamp East		Clamp West	
	Circle A	Circle B	Circle A	Circle B	Circle A	Circle B	Circle A	Circle B
	"	"	"	"	"	"	"	"
Series 1	+0.15	----	+0.14	----	----	----	----	----
Series 2	+0.44	+0.42	+0.55	+0.45	+0.51	+0.52	+0.22	+0.17

The values of the horizontal flexure derived from the collimators are in fairly good agreement with those derived from the stars, for Position I but not for Position II. After careful consideration it was decided to adopt the values of e_1 determined from the collimators and to use the same values for both circles. Since all the observations in 1909–1910 were made in Position I, with the exception of a part of the direct and reflected observations in Series 2, the final declinations will not be affected materially by this choice.

Since no determinations of the vertical flexure were made with the vertical collimator, the adopted values of e_2 and ΔN are those resulting from observations of stars.

Adopted Values of e_1, e_2, and ΔN

[1909–1910]

	Position I		Position II	
	Circle A	Circle B	Circle A	Circle B
	"	"	"	"
e_1	+0.28	+0.28	−0.10	−0.10
e_2	−0.04	+0.05	−0.13	−0.16
ΔN	−0.06	+0.23	−0.17	−0.30

From these adopted values, the corrections to the observed declinations for flexure which are given in Table X were computed.

Period 1911–1918.—The flexures for the period 1911–1918 were first discussed in the same manner as those for 1909–1910, but certain small anomalies arising, it was decided to investigate a possible circle flexure. This circle flexure was assumed to be equivalent to a slight rotation of the circle on its axis such as would be produced if a weight were added to the circle at some point A.

Let
o=the circle reading of the objective.
k=the circle reading of the point A.
$\theta=o-k$=the angle between the point A and the objective.

Then the correction to a circle reading for flexure at any zenith distance, z, is

$$e_1 \sin z + e_2 \cos z + f \sin (z+\theta)$$

The first two terms represent the tube flexure and the last term the circle flexure. The zenith distance is reckoned from 0° to 360° in the direction in which the circle readings increase.

If H and V are the measured horizontal and vertical flexures as determined with the collimators, we have for either clamp,

$$H = e_1 + f\cos\theta = e_1 + f\cos k\cos o + f\sin k\sin o$$
$$V = e_2 + f\sin\theta = e_2 + f\cos k\sin o - f\sin k\cos o$$

The following are the values of o, H, and V for the three periods in which the work was divided:

Period	Position	o	H	V
		° ′	″	″
1911–1913	II_1	179 56	−0.04	−0.01
1913–1917	I	45 2	+0.20	+0.09
1917–1918	II_2	330 54	+0.18	−0.05

It became apparent from a preliminary discussion that the horizontal tube flexure, e_1, had different values in the two positions of the instrument, instead of simply having different signs; also that the vertical tube flexure, e_2, was practically zero at all times. Accordingly, a different horizontal tube flexure, d_1, was assumed for Position I and the terms containing e_2 were omitted. There resulted the following six equations of condition, containing four unknowns:

d_1	e_1	$f\cos k$	$f\sin k$		$n_{obs.}$	$n_{comp.}$
					″	″
0.00	+1.00	−1.00	0.00	=	−0.04	−0.04
1.00	0.00	+0.71	+0.71	=	+0.20	+0.20
0.00	+1.00	+0.87	−0.49	=	+0.18	+0.18
0.00	0.00	0.00	+1.00	=	−0.01	−0.01
0.00	0.00	+0.71	−0.71	=	+0.09	+0.09
0.00	0.00	−0.49	−0.87	=	−0.05	−0.05

The solution of these equations gives

″	″
$e_1 = +0.074$	$f\cos k = +0.116$
$d_1 = +0.127$	$f\sin k = -0.012$

Whence

″	° ′
$f = +0.117$	and $k = -5\ 54$

It happened that the equations of condition were satisfied exactly. Since it was found to be impossible to satisfy the differences (E − W), (R − D), and (II − I), and the determinations made with the collimators, with a single set of values of the flexure, it was decided to use the values given above and to derive empirical terms to reduce the observations made in the various positions to a common basis, this common basis to be the mean of all positions for direct observations only.

If z is reckoned as positive toward the north, the correction to an observed declination for flexure and nadir division error is

$$\Delta\delta = -e_2 + \Delta N + e_1\sin z - e_2\cos z - f\sin\theta - f\sin(\theta - z) \quad \text{Clamp East, Direct}$$
$$= +e_2 - \Delta N - e_1\sin z - e_2\cos z + f\sin\theta - f\sin(\theta + z) \quad \text{Clamp East, Reflected}$$
$$= +e_2 - \Delta N + e_1\sin z + e_2\cos z + f\sin\theta + f\sin(\theta + z) \quad \text{Clamp West, Direct}$$
$$= -e_2 + \Delta N - e_1\sin z + e_2\cos z - f\sin\theta + f\sin(\theta - z) \quad \text{Clamp West, Reflected}$$

It should be understood that d_1 must be substituted for e_1 in Position I.

If (E−W) is the difference between observed declinations in the two clamps, we have, since e_2 is assumed to be zero,

$$\begin{aligned}
\tfrac{1}{2}\,(\mathrm{E}-\mathrm{W})_1 &= -\Delta N_1 + f\,(1+\cos z)\,\sin\,(o_1-k) + X_1 \quad \text{Position II}_1\\
\tfrac{1}{2}\,(\mathrm{E}-\mathrm{W})_2 &= -\Delta N_2 + f\,(1+\cos z)\,\sin\,(o_2-k) + X_2 \quad \text{Position I}\\
\tfrac{1}{2}\,(\mathrm{E}-\mathrm{W})_3 &= -\Delta N_3 + f\,(1+\cos z)\,\sin\,(o_3-k) + X_3 \quad \text{Position II}_2
\end{aligned}$$

where X_1, X_2, and X_3 are empirical terms necessary to reduce each clamp to the mean of both.

If ($\mathrm{II}_1-\mathrm{I}$) and ($\mathrm{II}_2-\mathrm{I}$) are differences between the observed declinations of a star (mean of both clamps) in the three positions of the instrument, we have

$$\begin{aligned}
(\mathrm{II}_1-\mathrm{I}) &= \{d_1-e_1+f\,[\cos\,(o_2-k)-\cos\,(o_1-k)]\}\sin z + Y_1\\
(\mathrm{II}_2-\mathrm{I}) &= \{d_1-e_1+f\,[\cos\,(o_2-k)-\cos\,(o_3-k)]\}\sin z + Y_2
\end{aligned}$$

where Y_1 and Y_2 are empirical terms.

If (R−D) is the difference between declinations observed reflected and direct, we have

$$\begin{aligned}
\tfrac{1}{2}\,(\mathrm{R}-\mathrm{D}) &= +\Delta N_1 - f\,\sin\,(o_1-k) + [e_1+f\,\cos\,(o_1-k)]\,\sin z + Z_1 \quad \text{Clamp East, Position II}_1\\
&= -\Delta N_1 + f\,\sin\,(o_1-k) + [e_1+f\,\cos\,(o_1-k)]\,\sin z + Z_2 \quad \text{Clamp West, Position II}_1\\
&= +\Delta N_2 - f\,\sin\,(o_2-k) + [d_1+f\,\cos\,(o_2-k)]\,\sin z + Z_3 \quad \text{Clamp East, Position I}\\
&= -\Delta N_2 + f\,\sin\,(o_2-k) + [d_1+f\,\cos\,(o_2-k)]\,\sin z + Z_4 \quad \text{Clamp West, Position I}
\end{aligned}$$

where Z_1, Z_2, Z_3, and Z_4 are other empirical terms. No reflected observations were made in Position II_2.

The differences, (E−W), were formed from the observed declinations of all the standard stars, except that the clock stars were omitted in the period 1911 to 1916, since there was sufficient material available without using them. The differences were always made between observations by the same observer and were afterwards combined in zones of declination. The results are given in the following table:

Differences ½ (E−W) in Declination

δ	Position II_1	Position I	Position II_2	δ	Position II_1	Position I	Position II_2
°	″	″	″	°	″	″	″
−25	+0.18	+0.26	+0.32	+ 45	+0.13	+0.12	−0.06
−15	+0.20	+0.27	+0.23	+ 55	+0.15	−0.03	+0.16
− 5	+0.24	+0.26	+0.34	+ 65	+0.12	+0.18	+0.08
+ 5	+0.14	+0.24	+0.28	+ 75	+0.21	+0.11	+0.18
+15	+0.14	+0.14	+0.24	+ 85	+0.26	+0.22	+0.08
+25	+0.16	+0.04	+0.28	+ 95	+0.18	+0.14	+0.21
+35	+0.10	+0.10	+0.07	+105	+0.20	+0.18	----

If we compute the values of $f\,(1+\cos z)\,\sin\,(o-k)$ for the various values of z in each position and subtract them from the corresponding values of ½ (E−W), we obtain the following values of $(-\Delta N+X)$.

δ	$-\Delta N_1+X_1$	$-\Delta N_2+X_2$	$-\Delta N_3+X_3$
°	″	″	″
− 25	+0. 20	+0. 13	+0. 39
− 15	+0. 22	+0. 13	+0. 30
− 5	+0. 26	+0. 10	+0. 42
+ 5	+0. 16	+0. 07	+0. 36
+ 15	+0. 16	−0. 03	+0. 33
+ 25	+0. 18	−0. 14	+0. 37
+ 35	+0. 12	−0. 08	+0. 16
+ 45	+0. 15	−0. 06	+0. 03
+ 55	+0. 17	−0. 21	+0. 25
+ 65	+0. 14	+0. 01	+0. 17
+ 75	+0. 23	−0. 05	+0. 26
+ 85	+0. 28	+0. 07	+0. 16
+ 95	+0. 20	0. 00	+0. 28
+105	+0. 22	+0. 05	----
Means----	+0. 19	0. 00	+0. 27

It was decided not to include the arbitrary term X in the expression for ½ (E−W), since the quantities in the preceding table, with the possible exception of those pertaining to Position I, do not show any variation that can not be ascribed to accidental errors. The mean values for each position, with the signs changed, were adopted as the values of ΔN, the additional correction for error in the division correction for the nadir:

″
$\Delta N_1 = -0.19$
$\Delta N_2 = \ 0.00$
$\Delta N_3 = -0.27$

After applying corrections for variation of latitude and for relative personal equation, preliminary means were taken of the observed declinations in each of the three positions, giving equal weight to Clamp East and Clamp West. The clock and azimuth stars were excluded in the period 1911–1916. The differences (II_1-I) and (II_2-I) were formed for each star, applying corrections for proper motion whenever necessary and obtainable. The differences were then combined in zones of declination and the results, using only those stars for which allowance has been made for proper motion, are given in the following table:

Differences (II_1-I) and (II_2-I) in Declination

δ	II_1-I	II_2-I	δ	II_1-I	II_2-I
°	″	″	°	″	″
−25	−0. 13	−0. 34	+ 45	−0. 12	+0. 14
−15	−0. 08	−0. 35	+ 55	−0. 07	+0. 02
− 5	−0. 03	−0. 26	+ 65	−0. 05	+0. 12
+ 5	+0. 03	−0. 26	+ 75	−0. 18	+0. 04
+15	−0. 01	−0. 22	+ 85	−0. 01	+0. 22
+25	−0. 04	−0. 21	+ 95	−0. 04	+0. 59
+35	−0. 15	−0. 14	+105	−0. 07	----

If we compute values of $\{d_1-e_1+f\ [\cos\ (o_2-k)-\cos\ (o_1-k)]\}\ \sin\ z$ and $\{d_1-e_1+f\ [\cos\ (o_2-k)-\cos\ (o_3-k)]\}\ \sin\ z$ and subtract them from the corresponding values of (II_1-I) and (II_2-I), respectively, we obtain the values of Y_1 and Y_2 given under the heading *Observed* in the following table.

δ	Y_1			Y_2		
	Observed	Computed	O−C	Observed	Computed	O−C
°	″	″	″	″	″	″
− 25	+0.09	+0.09	0.00	−0.32	−0.27	−0.05
− 15	+0.12	+0.12	0.00	−0.33	−0.32	−0.01
− 5	+0.14	+0.13	+0.01	−0.25	−0.33	+0.08
+ 5	+0.17	+0.12	+0.05	−0.25	−0.31	+0.06
+ 15	+0.09	+0.08	+0.01	−0.21	−0.26	+0.05
+ 25	+0.02	+0.03	−0.01	−0.21	−0.18	−0.03
+ 35	−0.13	−0.03	−0.10	−0.14	−0.08	−0.06
+ 45	−0.14	−0.10	−0.04	+0.14	+0.02	+0.12
+ 55	−0.14	−0.16	+0.02	+0.01	+0.11	−0.10
+ 65	−0.16	−0.21	+0.05	+0.11	+0.19	−0.08
+ 75	−0.32	−0.24	−0.08	+0.03	+0.24	−0.21
+ 85	−0.18	−0.25	+0.07	+0.21	+0.25	−0.04
+ 95	−0.24	−0.24	0.00	+0.57	+0.23	+0.34
+105	−0.29	−0.21	−0.08	----	----	----

If we put

$$Y_1=c_1+y_1 \sin 2z$$
$$Y_2=c_2+y_2 \sin 2z$$

and solve by least squares, we obtain the following results:

″	″
$c_1=-0.062$	$y_1=-0.193$
$c_2=-0.035$	$y_2=+0.292$

The computed values of Y_1 and Y_2 and the residuals are given in the preceding table. It will be noted that the values of Y_2 are quite different from those of Y_1 although Position II_2 is the same as Position II_1.

Reflected observations of selected lists of stars were made during the following periods:

1912, June 10 to July 8; Instrument in Position II_1,
1913, August 7 to September 4; Instrument in Position II_1,
1915, February 10 to March 9; Instrument in Position I,
1916, March 23 to April 20; Instrument in Position I.

In addition to the above lists, about one hundred reflected observations of circumpolar stars were made each year from 1911 to 1916, inclusive.

The following tables contain the differences $\frac{1}{2}$ (R−D) for the stars included in the four selected lists of stars arranged in order of zenith distance. The signs of the differences have been changed for stars observed at lower culmination. The subscripts indicate the number of reflected observations.

Differences ½ (R − D) for Position II_1

Star	Year	α	z	½ (R−D) Clamp East	½ (R−D) Clamp West	Zone
		h m	°	″	″	
υ Aquarii	1913	22 30	−60. 1	−0. 59_4	−0. 01_4	
μ Sagittarii	1912	18 8	60. 0	−0. 01_4	−0. 07_4	
λ Libræ	1912	15 48	58. 8	−0. 58_2	−0. 26_4	(1)
β Scorpii	1912	16 0	58. 5	−0. 66_5	+0. 19_4	
υ Capricorni	1913	20 35	57. 4	−0. 62_6	−0. 24_4	
δ Aquarii	1913	22 50	−55. 2	−0. 84_4	−0. 17_4	
β Capricorni	1913	20 16	54. 0	−0. 26_5	−0. 27_5	
ι Aquarii	1913	22 2	53. 2	−0. 64_4	+0. 08_4	(2)
ζ Ophiuchi	1912	16 32	49. 3	−0. 45_4	−0. 08_4	
ξ Aquarii	1913	21 33	47. 2	−0. 43_3	+0. 19_5	
δ Ophiuchi	1912	16 10	−42. 4	−0. 64_5	−0. 04_4	
θ Aquilæ	1913	20 7	40. 0	−0. 44_5	−0. 23_5	(3)
α Serpentis	1912	15 40	32. 2	−0. 65_5	+0. 02_4	
α Aquilæ	1913	19 46	30. 3	−0. 48_7	−0. 08_4	
β Sagittæ	1912	19 37	−21. 6	−0. 40_4	+0. 01_3	
β Sagittæ	1913	19 37	21. 6	−0. 56_5	+0. 16_4	
γ Sagittæ	1913	19 55	19. 7	−0. 26_5	−0. 32_5	(4)
110 Herculis	1912	18 42	18. 5	−0. 65_4	+0. 08_4	
110 Herculis	1913	18 42	18. 5	−0. 27_5	----	
λ Pegasi	1913	22 42	15. 8	−0. 44_4	−0. 20_3	
λ Herculis	1912	17 27	−12. 7	−0. 34_4	+0. 33_4	
α Coronæ Borealis	1912	15 31	11. 9	−0. 40_4	+0. 11_3	
μ Herculis	1912	17 43	11. 1	−0. 28_4	+0. 27_4	(5)
ζ Cygni	1913	21 9	9. 0	+0. 02_4	+0. 04_5	
41 Cygni	1913	20 26	8. 8	−0. 23_8	−0. 34_4	
ϵ Herculis	1912	16 57	− 7. 9	−0. 34_5	−0. 04_4	
π^2 Cygni	1913	21 44	+10. 0	+0. 10_4	−0. 21_5	
γ Draconis	1912	17 55	12. 6	−0. 41_4	+0. 01_4	(6)
ι Cygni	1912	19 28	12. 6	−0. 45_4	−0. 02_4	
ι Cygni	1913	19 28	12. 6	−0. 08_6	+0. 55_5	
Gr. 2377	1912	16 44	+18. 0	−0. 41_5	+0. 08_4	
o Draconis	1912	18 50	20. 4	−0. 42_4	−0. 16_4	
o Draconis	1913	18 50	20. 4	−0. 14_5	+0. 14_4	(7)
η Cephei	1913	20 44	22. 6	−0. 24_6	+0. 08_5	
α Cephei	1913	21 16	23. 3	−0. 19_3	−0. 08_5	
24 Cephei	1913	22 8	+33. 0	+0. 01_3	+0. 14_4	
χ Draconis	1912	18 23	33. 8	−0. 43_4	+0. 01_4	
τ Draconis	1912	19 17	34. 3	−0. 64_4	−0. 03_4	(8)
τ Draconis	1913	19 17	34. 3	−0. 41_4	+0. 45_5	
79 Draconis	1913	21 52	34. 4	−0. 28_3	+0. 21_3	
η Ursæ Minoris	1912	16 20	37. 0	−0. 35_5	+0. 14_4	
220 H.[1] Draconis	1913	20 52	+41. 3	−0. 05_5	+0. 14_5	(9)
λ Ursæ Minoris	1912	19 9	+50. 1	−0. 44_4	+0. 11_4	(11)
λ Ursæ Minoris	1913	19 9	50. 1	−0. 26_6	+0. 44_5	
51 H. Cephei s. P	1912	7 0	+53. 9	−0. 44_4	−0. 14_4	(12)
51 H. Cephei s. P	1913	7 0	53. 9	−0. 01_8	+0. 18_5	
Gr. 944 s. P	1912	5 34	+55. 9	−0. 40_4	+0. 37_4	(13)
30 H. Camelopardalis s. P	1913	10 21	+58. 1	−0. 14_2	−0. 17_3	
1 H. Draconis s. P	1913	9 25	59. 4	+0. 04_3	+0. 14_4	(14)
23 H. Camelopardalis s. P	1912	6 31	61. 4	−0. 38_4	+0. 10_3	
19 H. Camelopardalis s. P	1912	5 8	+62. 0	+0. 02_4	−0. 04_4	

Differences ½ (R−D) for Position I

Star	Year	α	z	½ (R−D) Clamp East	½ (R−D) Clamp West	Zone
		h m	°	″	″	
δ Leporis	1915	5 48	−59.8	−0.51$_2$	−0.48$_2$	
β Leporis	1915	5 25	59.8	−1.01$_2$	−0.98$_2$	
β Canis Majoris	1915	6 19	56.8	−1.36$_2$	−0.56$_2$	
α Leporis	1915	5 29	56.8	−0.98$_2$	−0.64$_2$	
α Crateris	1916	10 56	56.8	−0.72$_2$	−0.61$_2$	(1)
δ Corvi	1916	12 25	55.0	−1.26$_1$	−0.30$_1$	
ν Hydræ	1916	10 45	54.7	−0.73$_2$	−0.32$_2$	
ζ Leporis	1915	5 43	53.8	−0.86$_2$	−0.62$_2$	
δ Crateris	1916	11 15	53.2	−0.96$_2$	−0.64$_2$	
α Hydræ	1915	9 23	−47.2	−0.50$_2$	−0.44$_2$	
α Hydræ	1916	9 23	47.2	−1.08$_2$	−0.75$_2$	
τ Orionis	1915	5 13	45.8	−0.69$_2$	−0.54$_3$	
β Eridani	1915	5 4	44.1	−0.77$_2$	−0.63$_2$	
25 Monocerotis	1915	7 33	42.8	−0.52$_2$	−0.33$_2$	(2)
30 Monocerotis	1915	8 21	42.5	−0.76$_2$	−0.14$_2$	
33 Sextantis	1916	10 37	40.2	−0.54$_2$	−1.04$_1$	
υ Leonis	1916	11 33	39.3	−0.98$_2$	−0.34$_2$	
p^4 Leonis	1916	11 3	−36.5	−1.02$_2$	−0.77$_2$	
θ Hydræ	1915	9 10	36.2	+0.22$_2$	−0.14$_2$	
θ Hydræ	1916	9 10	36.2	−0.37$_2$	−0.24$_2$	
σ Hydræ	1915	8 34	35.3	−0.44$_2$	−0.29$_2$	
σ Hydræ	1916	8 34	35.3	−0.70$_1$	−0.32$_1$	(3)
γ Orionis	1915	5 20	32.6	−0.64$_2$	−0.60$_2$	
ε Hydræ	1915	8 42	32.2	−0.39$_2$	−0.15$_2$	
ε Hydræ	1916	8 42	32.2	−0.81$_2$	−0.13$_2$	
π Virginis	1916	11 56	−31.8	−0.89$_1$	+0.05$_1$	
10 Leonis	1916	9 33	31.7	−1.04$_1$	−0.44$_1$	
π Leonis	1915	9 56	30.5	−0.41$_2$	−0.18$_2$	
π Leonis	1916	9 56	30.5	−0.41$_2$	−0.30$_2$	
o Virginis	1916	12 1	29.7	−0.66$_1$	−0.63$_1$	(4)
S Monocerotis	1915	6 36	29.0	−0.52$_2$	−0.36$_2$	
o Leonis	1915	9 36	28.6	−0.68$_2$	−0.02$_2$	
o Leonis	1916	9 36	28.6	−0.78$_1$	−0.08$_1$	
ι Leonis	1916	11 19	27.9	−0.74$_2$	−0.34$_2$	
ν Orionis	1915	6 3	−24.1	−0.56$_2$	+0.08$_2$	
11 Orionis	1915	5 0	23.6	−0.49$_2$	−0.04$_2$	
θ Leonis	1916	11 10	23.0	−0.70$_2$	−0.42$_2$	
51 Geminorum	1915	7 8	22.6	−0.50$_2$	−0.09$_3$	
η Leonis	1915	10 3	21.7	−0.66$_2$	−0.24$_2$	(5)
η Leonis	1916	10 3	21.7	−0.75$_2$	−0.34$_2$	
83 Cancri	1915	9 14	20.8	−0.40$_2$	−0.07$_2$	
83 Cancri	1916	9 14	20.8	−0.37$_2$	−0.43$_2$	
d^1 Cancri	1915	8 19	20.3	−0.69$_1$	−0.57$_1$	
ν Geminorum	1915	6 24	−18.6	−0.54$_2$	−0.50$_2$	
γ Cancri	1915	8 38	17.2	−0.41$_2$	−0.02$_2$	
γ Cancri	1916	8 38	17.2	−0.52$_1$	−0.30$_1$	
ε Leonis	1916	9 41	14.8	−0.15$_1$	−0.27$_1$	
54 Leonis	1916	10 51	13.7	−0.37$_2$	−0.27$_2$	(6)
ω Cancri	1915	7 56	13.3	−0.16$_2$	−0.31$_2$	
ω Cancri	1916	7 56	13.3	−0.24$_1$	−0.19$_1$	
β Geminorum	1915	7 40	10.7	−0.68$_2$	−0.09$_2$	
β Geminorum	1916	7 40	−10.7	−0.28$_1$	−0.58$_1$	

Differences ½ (R−D) for Position I

Star	Year	α	z	½ (R−D) Clamp East	½ (R−D) Clamp West	Zone
		h m	°	′	″	
χ Ursæ Majoris	1916	11 41	+ 9.3	−0.42₂	−0.04₂	
o Aurigæ	1915	5 39	10.9	−0.61₂	−0.29₂	
27 Lyncis	1915	8 2	12.8	−0.02₂	−0.07₂	
27 Lyncis	1916	8 2	12.8	−0.23₁	−0.08₁	
γ Ursæ Majoris	1916	11 49	15.2	−0.41₂	−0.24₂	(7)
δ Aurigæ	1915	5 52	15.4	−0.18₂	−0.12₂	
36 Ursæ Majoris	1915	10 25	17.5	+0.07₂	−0.13₃	
36 Ursæ Majoris	1916	10 25	17.5	+0.04₂	−0.22₂	
δ Ursæ Majoris	1916	12 11	18.6	+0.24₁	−0.50₁	
15 Lyncis	1915	6 50	+19.6	−0.05₂	−0.55₂	
24 Lyncis	1916	7 36	20.0	+0.15₁	+0.12₁	
υ Ursæ Majoris	1915	9 45	20.5	−0.22₂	+0.10₂	
υ Ursæ Majoris	1916	9 45	20.5	−0.13₂	+0.12₂	
o Ursæ Majoris	1916	8 23	22.1	+0.12₁	+0.16₁	(8)
8 Lyncis	1915	6 30	22.6	−0.46₂	−0.40₂	
76 Ursæ Majoris	1916	12 38	24.2	−0.44₁	+0.15₁	
32 Ursæ Majoris	1915	10 12	26.6	−0.50₂	+0.14₂	
32 Ursæ Majoris	1916	10 12	26.6	−0.22₂	+0.28₂	
30 H.Ursæ Majoris	1916	10 18	+27.1	−0.20₂	+0.08₂	
3 Draconis	1916	11 38	28.3	−0.38₂	−0.11₂	
σ^2 Ursæ Majoris	1915	9 3	28.6	+0.22₂	+0.53₂	
σ^2 Ursæ Majoris	1916	9 3	28.6	−0.11₂	+0.30₂	
43 Camelopardalis	1915	6 44	30.1	−0.05₂	+0.33₂	(9)
22 H. Camelopardalis	1915	6 10	30.4	−0.18₂	+0.03₂	
d Ursæ Majoris	1915	9 27	31.3	−0.21₂	−0.02₂	
d Ursæ Majoris	1916	9 27	31.3	−0.07₂	−0.04₂	
κ Draconis	1916	12 30	31.3	+0.12₁	+0.57₁	
Gr. 1586	1915	9 51	+34.4	−0.13₂	+0.23₂	
Gr. 1586	1916	9 51	34.4	0.00₂	+0.22₂	
Gr. 1446	1915	8 30	35.0	+0.20₂	+0.13₂	
Gr. 1446	1916	8 30	35.0	+0.47₁	+0.87₁	
Gr. 1374	1915	7 50	35.2	+0.38₂	+0.27₂	(10)
Gr. 1374	1916	7 50	35.2	+0.42₁	+0.78₁	
Br. 1147	1915	8 9	37.1	+0.06₂	−0.03₂	
Br. 1147	1916	8 9	37.1	+0.52₁	+0.24₁	
4 H. Draconis	1916	12 8	39.2	−0.04₁	+0.49₁	
19 H. Camelopardalis	1915	5 8	+40.2	+0.07₂	−0.20₂	
25 H. Camelopardalis	1915	7 13	43.7	−0.09₂	+0.03₂	
32 H. Camelopardalis *scq*	1916	12 48	45.0	+0.16₁	−0.22₁	
Gr. 944	1915	5 35	46.2	−0.38₂	+0.20₂	(11)
51 H. Cephei	1915	7 1	48.3	+0.02₂	+0.50₂	
Br. 1672	1916	12 14	49.2	+0.40₁	−0.02₁	
Gr. 1119	1915	8 14	50.0	−0.15₂	+0.38₂	
Gr. 1119	1916	8 14	50.0	−0.16₁	+0.22₁	
λ Ursæ Minoris s. p	1915	19 5	+52.1	+0.25₂	+0.44₂	
39 H. Cephei s. p	1916	23 28	54.2	−0.10₂	+0.15₂	
δ Ursæ Minoris s. p	1915	18 0	54.5	+0.17₂	+0.06₂	
43 H. Cephei s. p	1916	0 57	55.3	+0.22₁	−0.02₁	
76 Draconis s. p	1915	20 50	58.9	−0.02₂	+0.26₂	(12)
76 Draconis s. p	1916	20 50	58.9	+0.10₂	+0.58₂	
ε Ursæ Minoris s. p	1915	16 55	58.9	+0.52₂	+0.91₂	
220 H^1. Draconis s. p	1915	20 51	60.8	0.00₂	+0.32₂	
220 H^1. Draconis s. p	1916	20 51	+60.8	+0.06₂	+0.35₁	

The following table contains the differences ½ (R−D) for the circumpolar stars observed during the period 1911–1916 but not included in the selected lists. The zones are numbered to correspond with those in the preceding tables, with which they have been combined to form final means.

Differences ½ (R−D) for Circumpolar Stars not Included in the Preceding Lists

Star	α	z	½ (R−D)					
			Position II_1			Position I		
			Clamp East	Clamp West	Zone	Clamp East	Clamp West	Zone
	h m	°	″	″		″	″	
1 H. Draconis	9 24	+42.8	-0.51_6	$+0.20_7$		-0.04_{10}	$+0.34_{13}$	
ε Ursæ Minoris	16 55	43.3	-0.51_2	$+0.78_4$	(9)	----	----	
76 Draconis	20 49	43.3	-0.40_9	$+0.80_2$		0.00_7	$+0.28_9$	
30 H. Camelopardalis	10 20	44.1	-0.52_8	$+0.40_3$		$+0.02_8$	$+0.42_{11}$	
Gr. 944	5 33	46.2	-0.80_3	$+0.04_2$		----	$+0.44_2$	
Gr. 750	4 8	46.4	-0.22_4	$+0.20_7$		----	----	
43 H. Cephei	0 56	46.9	-0.28_3	$+0.70_5$	(10)	$+0.15_8$	$+0.36_4$	
δ Ursæ Minoris	18 0	47.7	-0.48_6	$+0.15_4$		-0.23_3	$+0.52_5$	(11)
39 H. Cephei	23 28	47.9	-0.04_5	-0.04_3		-0.07_6	$+0.54_9$	
51 H. Cephei	6 59	48.3	-0.19_5	$+0.07_7$		-0.01_2	$+0.61_2$	
Gr. 2283	15 5	48.6	-0.28_3	$+0.16_3$		----	----	
Br. 1672	12 14	49.3	-0.15_7	$+0.34_4$		-0.17_6	$+0.23_5$	
α Ursæ Minoris	1 27	49.9	-0.37_5	$+0.19_{16}$	(11)	-0.08_{11}	$+0.17_5$	
Gr. 1119	8 10	50.0	-0.23_6	$+0.51_3$		-0.30_2	$+0.26_3$	
λ Ursæ Minoris	19 8	50.1	-0.15_3	$+0.17_5$		----	$+0.66_5$	
λ Ursæ Minoris s. p	19 8	52.1	-0.21_5	0.00_7		----	$+0.75_4$	
Gr. 1119 s. p	8 10	52.2	-0.06_8	$+0.86_3$		$+0.42_3$	$+0.13_4$	
α Ursæ Minoris s. p	1 27	52.3	-0.44_{10}	$+0.02_{13}$	(12)	$+0.16_5$	$+0.44_{11}$	
Br. 1672 s. p	12 14	52.9	-0.22_3	$+0.58_3$		$+0.34_4$	$+0.30_5$	
Gr. 2283 s. p	15 5	53.5	-0.06_4	$+0.32_5$		$+0.65_2$	----	
51 H. Cephei s. p	6 59	53.9	-0.18_5	$+0.39_7$		$+0.23_4$	$+0.46_5$	
39 H. Cephei s. p	23 28	54.3	-0.18_9	$+0.38_3$		$+0.10_6$	$+0.35_{11}$	
δ Ursæ Minoris s. p	18 0	54.5	-0.26_7	$+0.06_4$	(13)	-0.27_4	$+0.38_5$	(12)
43 H. Cephei s. p	0 56	55.3	-0.18_6	$+0.09_6$		-0.09_5	$+0.33_5$	
Gr. 750 s. p	4 8	55.8	-1.12_3	$+0.30_4$		----	----	
Gr. 944 s. p	5 33	55.9	-0.74_3	----		----	----	
30 H. Camelopardalis s. p	10 20	58.1	-0.02_5	$+0.13_6$		$+0.08_{10}$	$+0.68_8$	
76 Draconis s. p	20 49	58.9	-0.27_5	$+0.52_3$	(14)	-0.08_7	$+0.35_6$	
ε Ursæ Minoris s. p	16 55	58.9	-0.23_5	$+0.43_2$		----	----	
1 H. Draconis s. p	9 24	+59.4	-0.15_8	$+0.26_2$		$+0.22_{16}$	$+0.36_{11}$	

The weighted means of the differences ½ (R−D) given in the preceding tables were taken in zones. The results are given in the following table:

Summary of Differences ½ (R−D)

Position II_1				Position I			
Zone	z	½ (R−D)		Zone	z	½ (R−D)	
		Clamp East	Clamp West			Clamp East	Clamp West
	°	″	″		°	″	″
1	−59. 0	−0. 49	−0. 08	1	−56. 3	−0. 91	−0. 59
2	51. 8	−0. 52	−0. 05	2	43. 6	−0. 73	−0. 50
3	36. 2	−0. 55	−0. 08	3	34. 6	−0. 52	−0. 33
4	19. 3	−0. 43	−0. 05	4	29. 8	−0. 63	−0. 25
5	−10. 2	−0. 26	+0. 06	5	22. 1	−0. 56	−0. 21
6	+12. 0	−0. 21	+0. 08	6	−14. 4	−0. 39	−0. 27
7	20. 9	−0. 28	+0. 01	7	+14. 4	−0. 19	−0. 17
8	34. 5	−0. 35	+0. 15	8	22. 5	−0. 22	−0. 01
9	43. 0	−0. 39	+0. 38	9	29. 7	−0. 11	+0. 16
10	47. 2	−0. 31	+0. 21	10	35. 8	+0. 17	+0. 29
11	49. 7	−0. 27	+0. 23	11	46. 4	−0. 04	+0. 35
12	53. 1	−0. 23	+0. 19	12	56. 0	+0. 13	+0. 40
13	55. 3	−0. 37	+0. 23				
14	+59. 5	−0. 14	+0. 14				

If we compute values of $\Delta N_1 - f \sin (o_1 - k) + [e_1 + f \cos (o_1 - k)] \sin z$, etc., assuming $\Delta N_1 = -0''.19$ and $\Delta N_2 = 0''.00$, which are the values derived from the discussion of the differences ½ (E−W), and subtract them from the corresponding values of ½ (R−D), we obtain the values of Z_1, Z_2, Z_3, and Z_4 given under the heading *Observed* in the following table:

Position II_1					Position I				
z	Z_1		Z_2		z	Z_3		Z_4	
	Observed	Computed	Observed	Computed		Observed	Computed	Observed	Computed
°	″	″	″	″	°	″	″	″	″
−59. 0	−0. 35	−0. 35	−0. 30	−0. 32	−56. 3	−0. 65	−0. 54	−0. 51	−0. 46
51. 8	−0. 37	−0. 34	−0. 26	−0. 30	43. 6	−0. 50	−0. 49	−0. 45	−0. 41
36. 2	−0. 39	−0. 30	−0. 28	−0. 25	34. 6	−0. 32	−0. 44	−0. 31	−0. 37
19. 3	−0. 26	−0. 25	−0. 24	−0. 20	29. 8	−0. 44	−0. 42	−0. 24	−0. 35
−10. 2	−0. 09	−0. 22	−0. 13	−0. 16	22. 1	−0. 39	−0. 38	−0. 22	−0. 31
+12. 0	−0. 02	−0. 16	−0. 09	−0. 07	−14. 4	−0. 25	−0. 33	−0. 31	−0. 27
20. 9	−0. 08	−0. 13	−0. 15	−0. 04	+14. 4	−0. 15	−0. 16	−0. 31	−0. 11
34. 5	−0. 15	−0. 09	−0. 01	+0. 01	22. 5	−0. 21	−0. 12	−0. 18	−0. 06
43. 0	−0. 18	−0. 07	+0. 23	+0. 04	29. 7	−0. 12	−0. 07	−0. 03	−0. 03
47. 2	−0. 10	−0. 06	+0. 06	+0. 05	35. 8	+0. 14	−0. 04	+0. 08	0. 00
49. 7	−0. 06	−0. 06	+0. 08	+0. 06	46. 4	−0. 10	+0. 01	+0. 11	+0. 05
53. 1	−0. 02	−0. 05	+0. 04	+0. 06	+56. 0	+0. 05	+0. 04	+0. 14	+0. 08
55. 3	−0. 16	−0. 04	+0. 08	+0. 07					
+59. 5	+0. 08	−0. 04	0. 00	+0. 08					

If we put $Z=m+n \sin z$ and solve by least squares, we obtain as values of m and n,

	Position II_1		Position I	
	Clamp East	Clamp West	Clamp East	Clamp West
	″	″	″	″
m	−0. 19	−0. 12	−0. 25	−0. 19
n	+0. 18	+0. 23	+0. 35	+0. 32

The quantities Z are fairly well represented by the expression $m+n \sin z$, as shown by the computed values. The quantity m represents a constant difference between direct and reflected observations, while n represents an excess of horizontal flexure over that determined with the collimators. The adopted values of the horizontal flexure were $+0''.074$ for Position II_1 and $+0''.127$ for Position I. The reflected observations indicate that these values should be increased by about $+0''.2$ and $+0''.3$, respectively.

As the result of the preceding discussion, the following corrections have been applied to the observed declinations, both direct and reflected:

(1) Corrections for horizontal and circle flexure.

(2) Corrections to reduce to the mean of the two clamps.

(3) Additional empirical corrections to reduce the declinations observed direct in any position of the instrument to the mean of the three positions. If ΔII_1, ΔI, and ΔII_2 are the corrections necessary to accomplish this after the corrections in (1) and (2) have been applied,

we have
$$II_1+\Delta II_1=I+\Delta I=II_2+\Delta II_2,$$

and also
$$\Delta II_1+\Delta I+\Delta II_2=0$$

where
$$II_1-I=Y_1$$

and
$$II_2-I=Y_2$$

It follows that
$$\Delta II_1=\frac{Y_2-2Y_1}{3},$$
$$\Delta I=\frac{Y_1+Y_2}{3},$$
$$\Delta II_2=\frac{Y_1-2Y_2}{3}.$$

The adopted values of e, f, θ, ΔN, ΔII_1, ΔI, and ΔII_2 used in computing these corrections are given in the following table:

Adopted Values of $e, f, \theta, \Delta N, \Delta II_1, \Delta I$, and ΔII_2

[1911–1918]

Position	e	f	θ	ΔN	ΔII_1, ΔI, and ΔII_2
	″	″	° ′	″	″ ″
II_1	+0. 074	+0. 117	185 50	−0. 19	+0. 030+0. 226 sin 2z
I	+0. 127	+0. 117	50 56	0. 00	−0. 032+0. 033 sin 2z
II_2	+0. 074	+0. 117	336 48	−0. 27	+0. 003−0. 259 sin 2z

Table X gives the values of these corrections for the various positions of the instrument.

CORRECTIONS TO THE ASSUMED LATITUDE AND REFRACTION

The following table gives the results of direct observations of circumpolar stars made at night only:

Data from Circumpolar Observations

1909–1910

Star	R. A.	z	z'	$\delta'-\delta$		n		n'		Wt.		v	
				Circle A	Circle B	A	B	A	B	A	B	A	B
	h m	°	°	″	″							″	″
43 Camelop	6 44	30.1	72.1	+0.66	----	21	--	7	--	1.7	---	+0.43	----
κ Draconis	12 29	31.4	70.8	+0.15	----	20	--	13	--	2.9	---	−0.07	----
50 Cassiopeiæ	1 55	33.1	69.1	+0.32	−0.07	16	16	12	12	2.9	2.9	+0.10	−0.25
τ Draconis	19 17	34.3	67.9	+0.05	----	13	--	2	--	0.6	---	−0.16	----
Groomb. 4163	23 50	35.0	67.2	+0.11	----	19	--	19	--	4.3	---	−0.10	----
50 Draconis	18 49	36.4	65.8	−0.17	----	10	--	15	--	3.0	---	−0.38	----
4 H. Draconis	12 8	39.2	63.0	+0.32	+0.13	11	11	15	15	3.2	3.2	+0.12	−0.03
47 H. Cephei	2 54	40.2	62.0	+0.18	−0.18	16	16	9	10	2.8	3.0	−0.02	−0.34
25 H. Camelop	7 12	43.7	58.5	+0.30	----	16	--	14	--	3.9	---	+0.10	----
43 H. Cephei	0 56	46.9	55.3	−0.06	----	47	--	5	--	2.4	---	−0.26	----
δ Ursæ Minoris	18 1	47.7	54.5	+0.13	+1.33	2	2	28	18	1.1	1.1	−0.07	+1.17
39 H. Cephei	23 27	47.9	54.3	−0.01	----	9	--	20	--	3.6	---	−0.21	----
51 H. Cephei	6 58	48.3	53.9	+0.25	+0.28	21	18	23	9	6.0	3.3	+0.06	+0.13
α Ursæ Minoris	1 26	49.9	52.3	+0.15	+0.13	38	16	28	24	8.8	5.3	−0.04	−0.02
Groomb. 1119	8 8	50.0	52.2	+1.83	+0.26	3	3	3	3	0.8	0.8	+1.64	+0.11

1911–1918

Star	R. A.	z	z'	$\delta'-\delta$	n	n'	Wt.	v
	h m	°	°	″				″
α Cassiopeiæ	0 35	17.2	85.0	−0.89	17	19	0.5	+0.47
ε Ursæ Majoris	12 50	17.5	84.7	−1.59	8	37	1.0	−0.26
β Ursæ Majoris	10 56	18.0	84.2	−2.35	20	32	1.0	−1.07
ξ Draconis	17 52	18.0	84.2	+0.15	10	8	0.3	+1.43
ζ Cephei	22 7	18.9	83.3	−1.92	32	20	0.9	−0.71
β Cassiopeiæ	0 4	19.8	82.4	−1.84	11	21	1.0	−0.68
ι Draconis	15 22	20.4	81.8	−0.85	25	32	2.0	+0.28
υ Ursæ Majoris	9 44	20.5	81.7	−1.09	20	61	4.0	+0.03
δ Cassiopeiæ	1 20	20.9	81.3	−2.04	9	4	0.3	−0.93
γ Cassiopeiæ	0 51	21.3	80.9	−1.12	8	12	0.9	−0.03
β Camelopardalis	4 55	21.4	80.8	−1.34	9	39	3.0	−0.25
ο Ursæ Majoris	8 22	22.1	80.1	−0.95	14	67	5.0	+0.11
η Cephei	20 43	22.6	79.6	−1.35	12	13	1.0	−0.30
η Draconis	16 22	22.8	79.4	−0.77	13	17	2.0	+0.27
α Ursæ Majoris	10 58	23.3	78.9	−0.45	10	8	0.9	+0.58
α Cephei	21 16	23.3	78.9	−0.41	42	28	3.0	+0.62
θ Cephei	20 28	23.8	78.4	−1.01	33	7	0.9	+0.01
ε Cassiopeiæ	1 48	24.3	77.9	−1.19	9	25	3	−0.18
α Draconis	14 2	25.9	76.3	−0.62	23	26	4	+0.36
ζ Draconis	17 8	26.9	75.3	−0.73	9	28	4	+0.24
55 Cassiopeiæ	2 8	27.2	75.0	−1.03	8	9	2	−0.07
9 Camelopardalis	4 45	27.3	74.9	−0.51	8	8	2	+0.45
2 H. Ursæ Minoris	14 56	27.4	74.8	−0.80	8	8	2	+0.16
ι Cassiopeiæ	2 22	28.1	74.1	−1.18	8	8	2	−0.23

Data from Circumpolar Observations—Continued

1911–1918								
Star	R. A.	z	z'	$\delta'-\delta$	n	n'	Wt.	v
	h m	°	°	″				″
3 Draconis	11 38	28.3	73.9	−0.55	8	9	2	+0.40
41 H. Cephei	23 44	28.4	73.8	−0.37	8	8	2	+0.58
σ^2 Ursæ Majoris	9 2	28.6	73.6	−1.26	8	7	2	−0.31
δ Draconis	19 12	28.6	73.6	−0.54	25	15	3	+0.41
ω Cassiopeiæ	1 35	28.7	73.5	−0.52	9	7	2	+0.43
o Cephei	23 15	28.7	73.5	−1.13	9	8	2	−0.18
ψ Cassiopeiæ	1 19	28.8	73.4	−1.07	8	8	2	−0.13
ρ Ursæ Majoris	8 54	29.1	73.1	−1.13	8	8	2	−0.19
Groombridge 2320	16 6	29.1	73.1	−0.95	8	8	2	−0.01
f Draconis	17 32	29.3	72.9	−1.27	8	9	2	−0.33
Groombridge 1308	7 22	29.7	72.5	−0.85	8	8	2	+0.09
3 H. Ursæ Majoris	8 4	29.8	72.4	−0.99	8	11	2	−0.05
ω Draconis	17 37	29.9	72.3	−0.77	8	8	2	+0.16
43 Camelopardalis	6 44	30.1	72.1	−0.84	8	9	2	+0.09
A Draconis	16 28	30.1	72.1	−0.54	8	9	2	+0.39
22 H. Camelopardalis	6 9	30.5	71.7	−0.62	8	11	3	+0.31
38 Cassiopeiæ	1 24	30.9	71.3	−0.71	8	9	2	+0.22
λ Draconis	11 26	30.9	71.3	−1.09	19	15	4	−0.16
ϵ Draconis	19 49	31.1	71.1	−1.22	8	8	2	−0.30
d Ursæ Majoris	9 27	31.3	70.9	−0.91	8	9	2	+0.01
β Cephei	21 28	31.3	70.9	−0.80	8	8	2	+0.12
κ Draconis	12 30	31.4	70.8	−0.78	8	8	2	+0.14
11 Cephei	21 40	32.0	70.2	−0.77	8	8	2	+0.15
5 H. Camelopardalis	3 41	32.2	70.0	−0.46	8	8	2	+0.46
υ Draconis	18 55	32.3	69.9	−1.21	8	8	2	−0.29
φ Draconis	18 22	32.4	69.8	−0.95	8	8	2	−0.03
Fedorenko 1653 *pr*	10 11	32.6	69.6	−0.82	8	9	3	+0.09
Groombridge 2437	17 18	33.0	69.2	−0.51	8	9	3	+0.40
24 Cephei	22 8	33.0	69.2	−1.19	9	8	2	−0.28
50 Cassiopeiæ	1 56	33.1	69.1	−0.78	8	8	2	+0.13
Groombridge 1262	7 4	33.1	69.1	−0.45	9	8	3	+0.46
B. D.+72° 664	15 0	33.2	69.0	−0.71	10	10	3	+0.20
γ Ursæ Minoris	15 20	33.2	69.0	−1.21	8	9	3	−0.30
ψ Draconis	17 43	33.3	68.9	−0.61	8	8	2	+0.30
Groombridge 3241	20 30	33.3	68.9	−0.60	8	8	2	+0.31
Groombridge 569	2 50	33.4	68.8	−0.81	8	10	3	+0.10
36 H. Cassiopeiæ	2 30	33.5	68.7	−0.96	9	8	2	−0.05
B. D.+72° 515	11 2	33.5	68.7	−0.91	7	10	3	0.00
40 Cassiopeiæ	1 31	33.7	68.5	−0.83	8	8	3	+0.08
Bradley 1160	8 11	33.8	68.4	−0.68	8	8	3	+0.23
χ Draconis	18 22	33.8	68.4	−1.40	8	8	3	−0.49
Groombridge 2001	13 24	33.9	68.3	−0.94	8	8	3	−0.03
Groombridge 1865	12 12	34.2	68.0	−1.12	8	8	3	−0.22
τ Draconis	19 17	34.3	67.9	−0.69	8	8	3	+0.21
31 Cephei	22 34	34.3	67.9	−0.87	9	8	3	+0.03
Groombridge 1586	9 51	34.4	67.8	−0.90	8	9	3	0.00
Groombridge 1974	13 11	34.4	67.8	−0.46	8	8	3	+0.44
79 Draconis	21 52	34.4	67.8	−0.18	8	8	3	+0.72
Groombridge 4120	23 36	34.6	67.6	−1.32	9	8	3	−0.42
Schwerd 215	3 57	34.9	67.3	−0.64	8	8	3	+0.26
Groombridge 911	5 1	34.9	67.3	−0.73	8	8	3	+0.17
Groombridge 1446	8 30	35.0	67.2	−1.29	8	8	3	−0.39
Groombridge 4163	23 51	35.0	67.2	−0.92	9	9	3	−0.02
Groombridge 1374	7 50	35.2	67.0	−0.26	8	8	3	+0.64
Groombridge 1522	9 11	35.5	66.7	−0.90	8	8	3	0.00

Data from Circumpolar Observations—Continued

1911–1918

Star	R. A.	z	z'	$\delta'-\delta$	n	n'	Wt.	v
	h m	°	°	″				″
21 Cassiopeiæ	0 40	35.6	66.6	−0.27	9	8	3	+0.63
β Ursæ Minoris	14 50	35.6	66.6	−0.75	27	22	8	+0.15
73 Draconis	20 33	35.7	66.5	−0.43	8	10	3	+0.47
π Cephei	23 5	36.0	66.2	−0.93	8	8	3	−0.03
Groombridge 966	5 28	36.1	66.1	−1.49	8	8	3	−0.59
Groombridge 379	1 44	36.2	66.0	−1.15	8	9	3	−0.25
50 Draconis	18 49	36.4	65.8	−0.51	9	9	3	+0.39
Bradley 2099	16 15	36.5	65.7	−0.69	8	9	3	+0.20
Groombridge 2406	16 56	36.6	65.6	−0.47	8	10	4	+0.42
Groombridge 1030	5 53	36.7	65.5	−1.21	9	8	3	−0.32
Groombridge 848	4 37	36.9	65.3	−0.56	8	8	3	+0.33
226 B. Cephei	22 31	36.9	65.3	−1.33	9	8	4	−0.44
Bradley 1147	8 9	37.1	65.1	−0.84	8	8	3	+0.05
Radcliffe 1845, 2950	12 56	37.1	65.1	−0.31	7	9	3	+0.58
η Ursæ Minoris	16 20	37.1	65.1	−0.98	8	8	3	−0.09
5 Ursæ Minoris	14 28	37.2	65.0	−0.89	8	8	3	0.00
19 Ursæ Minoris	16 13	37.2	65.0	−0.94	8	10	4	−0.05
9 H. Draconis	10 28	37.3	64.9	−0.65	8	10	4	+0.24
Radcliffe 1845, 1260	4 34	37.5	64.7	−0.93	16	9	4	−0.04
Radcliffe 1845, 4348	19 24	37.5	64.7	−0.69	8	8	3	+0.20
318 B. Cephei *mean*	0 11	37.6	64.6	−0.76	8	8	3	+0.13
35 Draconis	17 53	38.1	64.1	−0.53	8	8	3	+0.36
24 H. Camelopardalis	6 47	38.2	64.0	−0.64	9	8	3	+0.25
γ Cephei	23 35	38.3	63.9	−1.15	20	18	8	−0.26
Groombridge 4089	23 28	38.4	63.8	−0.94	9	10	4	−0.05
48 H. Cephei	3 9	38.5	63.7	−0.68	8	8	3	+0.21
κ Cephei	20 12	38.5	63.7	−0.80	8	8	3	+0.09
Bradley 205	1 32	38.6	63.6	−1.09	8	8	3	−0.20
θ Ursæ Minoris	15 34	38.7	63.5	−0.74	8	8	3	+0.15
Bradley 2777	21 7	38.9	63.3	−0.50	9	9	4	+0.39
4 Ursæ Minoris	14 9	39.1	63.1	−1.13	8	8	3	−0.25
Groombridge 1803	11 32	39.2	63.0	−1.60	9	8	4	−0.72
4 H. Draconis	12 8	39.2	63.0	−0.93	10	10	4	−0.05
ζ Ursæ Minoris	15 47	39.2	63.0	−1.15	7	9	3	−0.27
Groombridge 1706	10 53	39.3	62.9	−0.79	7	8	3	+0.09
Fedorenko 1373	8 47	39.6	62.6	−1.09	9	8	4	−0.21
Radcliffe 1845, 1928	7 19	40.0	62.2	−0.75	8	8	4	+0.13
47 H. Cephei	2 54	40.2	62.0	−1.32	8	9	4	−0.44
19 H. Camelopardalis	5 8	40.2	62.0	−1.05	8	8	4	−0.17
Radcliffe 1845, 4956	20 40	40.2	62.0	−0.81	8	8	4	+0.07
Bradley 2894	21 53	40.2	62.0	−0.83	9	8	4	+0.05
44 H. Cephei	1 4	40.3	61.9	−0.30	8	8	4	+0.58
Fedorenko 1629	10 7	40.5	61.7	−0.62	8	9	4	+0.26
23 H. Camelopardalis	6 31	40.8	61.4	−0.90	8	8	4	−0.02
Schwerd 986	16 37	41.1	61.1	−1.04	8	9	4	−0.16
Bradley 2321	18 7	41.1	61.1	−1.45	8	8	4	−0.57
Groombridge 2456	17 26	41.3	60.9	−0.69	7	9	4	+0.19
220 H[1]. Draconis	20 52	41.3	60.9	−0.84	8	8	4	+0.04
Schwerd 1059	17 49	41.4	60.8	−1.18	10	8	4	−0.30
Radcliffe 1845, 526	1 45	41.6	60.6	−1.28	8	9	4	−0.40
Bradley 1458	10 35	42.0	60.2	−1.04	8	8	4	−0.16
Groombridge 1977	13 12	42.0	60.2	−0.60	7	8	4	+0.28
142 H[1]. Cephei	2 35	42.2	60.0	−1.11	8	8	4	−0.23
Groombridge 1927	12 42	42.2	60.0	−1.01	8	8	4	−0.13

Data from Circumpolar Observations—Continued

1911–1918									
	Star	R. A.	z	z'	$\delta' - \delta$	n	n'	Wt.	v
		h m	°	°	″				″
	Carrington 2352	15 35	42. 2	60. 0	−0. 86	8	8	4	+0. 02
	Bradley 2704	20 34	42. 2	60. 0	−0. 66	8	9	4	+0. 22
	Carrington 2188	14 33	42. 3	59. 9	−0. 98	9	8	4	−0. 10
	Groombridge 856	4 43	42. 4	59. 8	−1. 42	8	8	4	−0. 54
	Groombridge 1782	11 26	42. 7	59. 5	−0. 92	8	8	4	−0. 04
1	H. Draconis	9 24	42. 8	59. 4	−0. 98	44	66	26	−0. 10
319	B. Cephei	0 32	43. 1	59. 1	−1. 21	8	8	4	−0. 33
	Carrington 910	6 26	43. 3	58. 9	−0. 77	8	8	4	+0. 11
	Carrington 1651	11 3	43. 3	58. 9	−1. 09	9	8	4	−0. 21
ϵ	Ursæ Minoris	16 54	43. 3	58. 9	−0. 82	26	32	14	+0. 06
	Schwerd 1139	19 4	43. 3	58. 9	−0. 76	8	8	4	+0. 12
76	Draconis	20 49	43. 3	58. 9	−1. 00	49	35	19	−0. 12
25	H. Camelopardalis	7 13	43. 7	58. 5	−0. 64	15	23	9	+0. 24
	Groombridge 1431	8 31	43. 7	58. 5	−1. 17	8	8	4	−0. 29
	Groombridge 1391	8 7	43. 8	58. 4	−1. 16	8	8	4	−0. 28
	Bradley 3038	22 48	43. 8	58. 4	−1. 31	8	8	4	−0. 43
ν	Cephei	23 52	43. 8	58. 4	−1. 23	9	7	4	−0. 35
	Groombridge 2196	14 56	44. 0	58. 2	−1. 36	8	8	4	−0. 49
30	H. Camelopardalis	10 20	44. 1	58. 1	−0. 90	46	56	25	−0. 03
	Bradley 256	2 3	44. 2	58. 0	−0. 90	8	8	4	−0. 03
	Bradley 2412	18 35	44. 2	58. 0	−0. 71	8	8	4	+0. 16
	Piazzi XIII, 263	13 45	44. 3	57. 9	−0. 76	7	8	4	+0. 11
	Groombridge 2315	15 53	44. 3	57. 9	−0. 77	8	8	4	+0. 10
	Carrington 2965	19 27	44. 4	57. 8	−0. 76	8	8	4	+0. 11
	Radcliffe 1845, 4976	20 38	44. 4	57. 8	−0. 96	8	8	4	−0. 09
	Groombridge 766	4 8	44. 7	57. 5	−0. 81	9	8	4	+0. 06
32	H. Camelopardalis *pr*	12 48	45. 0	57. 2	−0. 88	8	9	4	−0. 01
32	H. Camelopardalis *seq*	12 48	45. 0	57. 2	−1. 33	10	14	6	−0. 46
36	H. Cephei	22 55	45. 0	57. 2	−0. 89	8	10	5	−0. 02
	Groombridge 1359	7 56	45. 4	56. 8	−1. 03	8	8	4	−0. 16
	Carrington 1451	9 54	45. 5	56. 7	−1. 28	10	8	4	−0. 41
	Groombridge 3212	20 13	45. 5	56. 7	−1. 11	9	8	4	−0. 24
	Radcliffe 1845, 2218	8 57	45. 6	56. 6	−1. 19	8	8	4	−0. 32
	Bradley 402	3 11	45. 7	56. 5	−1. 05	9	8	4	−0. 18
29	H. Camelopardalis	10 17	45. 8	56. 4	−0. 91	8	8	4	−0. 04
	Groombridge 944	5 34	46. 3	55. 9	−0. 63	25	4	3	+0. 24
	Groombridge 750	4 8	46. 4	55. 8	−0. 95	26	20	11	−0. 08
	Carrington 727	5 13	46. 7	55. 5	−0. 79	8	8	4	+0. 08
32	H. Cephei	22 21	46. 8	55. 4	−1. 17	9	8	4	−0. 30
43	H. Cephei	0 56	46. 9	55. 3	−0. 82	39	44	22	+0. 05
	Radcliffe 1845, 1311	5 0	46. 9	55. 3	−0. 86	8	8	4	+0. 01
	Radcliffe 1845, 2612	11 4	47. 2	55. 0	−1. 02	8	8	4	−0. 15
128	H[1]. Camelopardalis	12 0	47. 2	55. 0	−0. 82	8	10	5	+0. 05
149	H[1]. Cephei	3 38	47. 5	54. 7	−0. 51	8	9	4	+0. 36
δ	Ursæ Minoris	18 1	47. 7	54. 5	−0. 75	34	47	21	+0. 12
	Groombridge 3548	21 17	47. 8	54. 4	−0. 82	8	8	4	+0. 05
	Groombridge 1004	6 12	47. 9	54. 3	−0. 90	8	8	4	−0. 03
39	H. Cephei	23 27	47. 9	54. 3	−0. 76	52	42	24	+0. 11
51	H. Cephei	7 0	48. 3	53. 9	−0. 53	32	46	20	+0. 34
	Groombridge 2283	15 5	48. 7	53. 5	−0. 92	34	31	17	−0. 05
	Bradley 1672	12 14	49. 3	52. 9	−0. 98	38	39	20	−0. 11
α	Ursæ Minoris	1 28	49. 9	52. 3	−0. 91	237	234	123	−0. 04
	Groombridge 1119	8 10	50. 0	52. 2	−0. 64	21	28	13	+0. 23
λ	Ursæ Minoris	19 9	50. 1	52. 1	−0. 55	15	26	10	+0. 32

In the preceding table

z=the zenith distance of the star at upper culmination.
z'=the zenith distance of the star at lower culmination.
n=the number of observations at upper culmination.
n'=the number of observations at lower culmination.
$\delta'-\delta$=the mean of the declinations from lower culminations minus the mean of the declinations from upper culminations as published in the Individual Results. See p. 183 et seq.
Wt.$=\frac{1}{10}\left(\frac{nn'}{n'r'^2+nr^2}\right)$ where r' and r are the probable errors of a single observation at lower and upper culminations.

Period 1909–1910.—During the years 1909–1910 the observations were too few in number and covered too small a range in zenith distance to determine a correction to the refraction constant. The refractions during this period were computed from DE BALL'S refraction tables, while in the later work, 1911–1918, the Pulkowa refraction tables were used. The adopted correction to the Pulkowa refraction at zenith distance 45°, resulting from a discussion of the observations made in 1911–1918, is $\Delta R=-0''.12$. The mean difference between the values of the refraction at 45° zenith distance, computed from the Pulkowa and DE BALL tables, is $+0''.15$, in the sense Pulkowa minus DE BALL. The adopted correction to the refraction at 45° zenith distance for the period 1909–1910 is therefore $\Delta R=+0''.03$.

The equations of condition for determining $\Delta\varphi$ and ΔR are of the form

$$2\Delta\varphi+\Delta R\ (\tan z+\tan z')=\delta'-\delta$$

Putting $\Delta R=+0''.03$, we obtain as a correction to the assumed latitude, 1909–1910,

$$\Delta\varphi=+0''.06\pm0''.024 \quad \text{Circle A}$$
$$\Delta\varphi=+0''.04\pm0''.044 \quad \text{Circle B}$$

Period 1911–1918.—The circumpolar observations made during the period 1911–1918 give 187 equations of condition for determining $\Delta\varphi$ and ΔR. The resulting normal equations are

$$3678.60\ \psi-176.94\ \Delta R=-1632.273''$$
$$-176.94\ +734.10\ \ =+\ 38.572$$

where $\psi=\Delta\varphi+1.5\ \Delta R$.

Solving these equations we obtain

$$\psi=-0''.446\pm0''.005$$
$$\Delta R=-0''.055\pm0''.013$$
$$\Delta\varphi=-0''.364\pm0''.021$$

The quantities under the heading v in the last column of the preceding table are residuals obtained by substituting the values of $\Delta\varphi$ and ΔR, derived above, in the equations of condition.

Before adopting values of $\Delta\varphi$ and ΔR for the period 1911–1918, a comparison was made with the positions given in the fundamental catalogue of 1293 stars, from observations made at the Royal Observatory, Cape of Good Hope, during the years 1905–1911. The latter observations were made with the new reversible transit circle, and were reduced in a fundamental manner, using the Pulkowa

refractions. There are 583 stars common to the two catalogues, from declination +36°.0 to declination −43°.8, corresponding to zenith distances 2°.9 south to 82°.7 south at Washington, and 69°.9 north to 9°.9 south at the Cape. NEWCOMB's proper motions were used in general to reduce the positions at Washington and the Cape to a common epoch. The proper motions of Boss were used when those of NEWCOMB were not available. Weights were assigned in a manner similar to that employed in the discussion of the circumpolar stars, assuming the same probable error for an observation at the Cape as for one of the same zenith distance at Washington. The differences between the results at the two observatories were arranged in order of the declinations of the stars and divided into 55 groups of approximately equal weight. The mean differences by groups, $\delta_c - \delta_w$, appear in the following table:

Results of Comparison of Observations at Cape and Washington

Mean Decl.	z_c	z_w	$\delta_c - \delta_w$	v	Mean Decl.	z_c	z_w	$\delta_c - \delta_w$	v
°	°	°	″	″	°	°	°	″	″
+34.2	+68.2	4.7	+0.17	+0.05	+4.3	+38.3	34.6	−0.39	−0.28
31.9	65.9	7.0	+0.10	+0.02	3.4	37.4	35.5	−0.17	−0.05
29.3	63.3	9.6	−0.02	−0.06	2.6	36.6	36.3	−0.24	−0.12
28.1	62.1	10.8	+0.06	+0.04	2.3	36.3	36.6	−0.17	−0.05
27.0	61.0	11.9	−0.05	−0.05	+0.2	34.2	38.7	−0.23	−0.11
25.3	59.3	13.6	+0.04	+0.06	−0.5	33.5	39.4	−0.13	−0.01
23.9	57.9	15.0	−0.03	0.00	1.3	32.7	40.2	−0.18	−0.06
22.7	56.7	16.2	+0.09	+0.13	2.6	31.4	41.5	−0.11	0.00
21.6	55.6	17.3	−0.06	−0.01	3.6	30.4	42.5	+0.07	+0.18
20.4	54.4	18.5	−0.04	+0.02	4.9	29.1	43.8	−0.10	+0.01
19.1	53.1	19.8	−0.05	+0.02	6.4	27.6	45.3	−0.07	+0.04
18.5	52.5	20.4	+0.05	+0.12	8.2	25.8	47.1	−0.11	−0.01
17.0	51.0	21.9	−0.07	+0.01	8.4	25.6	47.3	+0.03	+0.13
16.1	50.1	22.8	−0.17	−0.09	9.2	24.8	48.1	−0.07	+0.03
15.1	49.1	23.8	−0.10	−0.01	10.2	23.8	49.1	−0.03	+0.06
14.6	48.6	24.3	−0.13	−0.04	11.4	22.6	50.3	+0.02	+0.11
12.9	46.9	26.0	−0.10	0.00	13.4	20.6	52.3	−0.02	+0.06
12.2	46.2	26.7	−0.13	−0.03	14.8	19.2	53.7	+0.13	+0.20
11.4	45.4	27.5	−0.11	−0.01	15.6	18.4	54.5	0.00	+0.06
10.3	44.3	28.6	−0.18	−0.07	16.7	17.3	55.6	−0.08	−0.02
9.6	43.2	29.7	−0.08	+0.03	18.1	15.9	57.0	0.00	+0.05
9.4	43.4	29.5	−0.19	−0.08	20.1	13.9	59.0	−0.15	−0.12
8.7	42.7	30.2	−0.14	−0.03	22.4	11.6	61.3	+0.12	+0.13
7.9	41.9	31.0	−0.12	−0.01	24.9	9.1	63.8	+0.02	−0.01
6.7	40.7	32.2	−0.17	−0.06	27.3	6.7	66.2	+0.06	−0.01
6.3	40.3	32.6	−0.15	−0.04	31.2	+2.8	70.1	+0.08	−0.08
5.8	39.8	33.1	−0.05	+0.06	−38.1	−4.1	77.0	+0.42	−0.04
+5.1	+39.1	33.8	−0.12	−0.01					

In the above table

z_c = the mean zenith distance north of the group at the Cape.
z_w = the mean zenith distance south of the group at Washington.
δ_c = the mean of the observed declinations at the Cape.
δ_w = the mean of the observed declinations at Washington.

From the quantities in the preceding table 55 equations of condition were obtained of the form

$$\Delta\delta - \Delta R_c \tan z_c - \Delta R_w \tan z_w = \delta_c - \delta_w$$

where ΔR_c = the correction to the refraction at 45° zenith distance at the Cape.
ΔR_w = the correction to the refraction at 45° zenith distance at Washington.
$\Delta\delta$ = the constant difference between the declinations at the Cape and those at Washington, after the refraction corrections given by the solution of these equations have been applied.

The normal equations derived from these equations of condition are

$$\begin{array}{rrrr} +55.00\,\Delta\delta & -48.42\,\Delta R_c & -48.26\,\Delta R_w & = -3.05'' \\ -48.42 & +59.69 & +25.12 & = +2.64 \\ -48.26 & +25.12 & +71.46 & = +0.35 \end{array}$$

Solving these equations, we obtain

$$\begin{aligned} \Delta\delta &= -0''.425 \pm 0''.032 \\ \Delta R_c &= -0''.214 \pm 0''.022 \\ \Delta R_w &= -0''.207 \pm 0''.016 \end{aligned}$$

The quantities given under the heading v in the fifth and tenth columns of the preceding table are the residuals resulting from the substitution of the above values of $\Delta\delta$, ΔR_c, and ΔR_w in the equations of condition. From these corrections to the refraction and the circumpolar observations at the two observatories we obtain as corrections to the latitudes, $\Delta\varphi_c = -0''.30$ and $\Delta\varphi_w = -0''.13$. Using, therefore, the stars that are observed in common at the two observatories for determining the corrections to the Pulkowa Refraction Tables, and the circumpolar stars observed at each observatory to determine the corrections to the assumed latitudes, the fundamental positions determined at Washington are $0''.60$ $(= +0''.43 + 0''.30 - 0''.13)$ north of the Cape positions.

We have determined

$\Delta R = -0''.055 \pm 0''.013$ From circumpolar observations
and $\Delta R = -0''.207 \pm 0''.016$ From comparison with Cape

Assigning weights 3 and 2, respectively, in accordance with the probable errors, we have, as the adopted value of ΔR, the correction to the Pulkowa refractions at 45° zenith distance,

$$\Delta R = -0''.116$$

Using this value of ΔR, the circumpolar observations give, as the correction to the assumed latitude,

$$\Delta\varphi = -0''.27$$

The adopted values of the corrections to the refraction at 45° zenith distance and of the mean latitude of the transit circle for the two series of observations are

$\Delta R = +0''.030$ (1909–1910) (de Ball refractions used in reductions)
$\Delta R = -0''.116$ (1911–1918) (Pulkowa refractions used in reductions)

$\varphi = +38\ 55\ 14''.05$ (1909–1910)
$\varphi = +38\ 55\ 13''.73$ (1911–1918)

To obtain the mean latitude of the center of the clock room, a correction of $-0''.07$ must be applied to the adopted values of the latitude of the instrument.

Latitude from reflected observations of circumpolar stars.—From reflected observations of 15 stars observed at upper and lower culminations, with a value of $\Delta R = -0''.055$ determined from direct observations of circumpolar stars, there results the following correction to the assumed latitude:

$$\Delta\varphi = -0''.44 \pm 0''.050$$

Corrections to the observed declinations based on the adopted values of the latitude and refraction given above were computed and applied. These corrections are given in Table XI.

PROBABLE ERROR OF AN OBSERVATION

After the final positions had been obtained, the probable error of a single observation in declination for Circle A was determined by forming the differences, v, between the final mean and the individual observations of a star. No attempt was made to determine the probable error for individual observers.

The probable errors were computed in zones, 10° wide from the zenith to a zenith distance of 70°, and 5° wide from 70° to 85° zenith distance. The results are given in the following table:

Probable Error of a Single Observation of the Final Declination

Zenith Distance	Probable Error		Zenith Distance	Probable Error	
	1909–1910	1911–1918		1909–1910	1911–1918
° °	″	″	° °	″	″
0 to 10	0. 39	0. 26	50 to 60	0. 43	0. 35
10 to 20	0. 41	0. 29	60 to 70	0. 53	0. 40
20 to 30	0. 39	0. 30	70 to 75	0. 52	0. 59
30 to 40	0. 36	0. 25	75 to 80	0. 80	0. 81
40 to 50	0. 43	0. 29	80 to 85	----	1. 42

These probable errors are fairly well represented by the empirical formulæ

$$r = \sqrt{0''.146 + 0''.023 \tan^2 z} \quad 1909\text{–}1910$$
$$r = \sqrt{0''.046 + 0''.032 \tan^2 z} \quad 1911\text{–}1918.$$

DISCORDANT OBSERVATIONS

The final results were examined for discordant observations. In general, the original records were examined, and the computations verified, of all observations which differed from the mean for the star concerned by more than three times the probable error. If no error was found, and the observation stood out from the mean by more than six times the probable error, the observation was rejected.

UPPER CULMINATION MINUS LOWER CULMINATION

The stars observed at both upper and lower culminations in the periods 1909–1910 and 1911–1918 were 16 and 187 in number, respectively. Differences were formed

for each star between the final declination from observations above the pole and that from observations below the pole. Weights were assigned to these differences depending on the number of observations and on the probable error at each culmination. The differences were then combined in groups of approximately equal weight in general; the first group in the 1911–1918 work includes refraction stars only and has less weight than the others. The results are given in the following table:

1909–1910		1911–1918	
Decl.	$\delta-\delta'$	Decl.	$\delta-\delta'$
°	″	°	″
72. 7	+0. 08	61. 3	−0. 29
80. 0	−0. 01	71. 1	−0. 12
86. 0	+0. 07	76. 9	+0. 01
88. 3	−0. 02	81. 4	+0. 11
		83. 8	+0. 13
		86. 9	−0. 03
		88. 9	+0. 02

VARIATION OF THE OBSERVED DECLINATIONS DURING THE DAY AND NIGHT

This variation was determined from a discussion of the observations of the clock and azimuth stars, 1911–1918, and certain other stars especially selected for this purpose which were observed during the period 1916–1918.

The means of the observed declinations derived from night observations were formed for each star and subtracted from the individual observations, both day and night. The observations had been corrected for variation of latitude, flexure, and relative personal equation. The same relative personal equation corrections were applied to the day observations as were used for the night observations. The residuals were collected in twelve periods, according to the mean time of transit. These periods are the same as those used in connection with the right ascensions and defined on page 39. The results for the six night periods, 7 to 12 inclusive, are given in the following table:

Variation of the Observed Declinations during the Night, 1911–1918

δ	Period 7		Period 8		Period 9		Period 10		Period 11		Period 12	
	$\Delta\delta$	No. Obs.	$\Delta\delta$	No. Obs.	$\Delta\delta$	No. Obs.	$\Delta\delta$	No. Obs.	$\Delta\delta$	No. Obs.	$\Delta\delta$	No. Obs.
° °	″		″		″		″		″		″	
−35 to 0	+0. 08	298	−0. 01	384	0. 00	147	+0. 05	89	−0. 14	98	−0. 12	49
0 to + 39	−0. 03	772	−0. 01	1504	+0. 04	728	+0. 03	286	−0. 03	125	−0. 15	52
+39 to + 60	−0. 05	93	+0. 05	84	+0. 04	23	----	---	----	---	----	--
+60 to +115	−0. 03	234	+0. 08	185	+0. 03	96	+0. 14	58	−0. 05	89	−0. 11	138

These observations show no appreciable variation in the observed declinations during the night.

Day minus night differences.—In discussing the residuals for the daylight periods it was found that the readings of the instrument thermometer and of the external thermometer differed during the day, although they were in substantial agreement at night. The refractions for all observations were based upon the readings of the instrument thermometer. The refractions for the day observations were also computed with the temperatures given by the external thermometer. The discussion of the differences between day and night observations was made in both cases.

The differences, day minus night, were collected in 10 zones of declination and the weighted means were formed for each period. The results for the case in which the instrument thermometer was used are given in the following table:

Day Minus Night Differences in Observed Declinations, 1911–1918

[Refractions Based on the Instrument Thermometer]

δ	z	Period 1		Period 2		Period 3		Period 4		Period 5		Period 6	
		Δδ	No. Obs'ns.	Δδ	No. Obs'ns.	Δδ	No. Obs'ns.	Δδ	No. Obs'ns.	Δδ	No. Obs'ns.	Δδ	No. Obs'ns.
° °	°	″		″		″		″		″		″	
−30 to − 16	−59	+0. 23	33	+0. 29	118	+0. 33	51	+0. 47	12	+0. 08	35	+0. 06	41
−16 to − 6	−49	−0. 02	76	+0. 12	259	+0. 21	122	+0. 04	79	−0. 06	132	+0. 06	103
− 5 to + 10	−33	−0. 18	116	−0. 17	595	−0. 35	227	−0. 43	50	−0. 49	78	−0. 15	62
+10 to + 20	−23	−0. 07	96	−0. 21	568	−0. 43	302	−0. 53	57	−0. 43	103	−0. 24	87
+20 to + 30	−13	+0. 01	104	−0. 12	654	−0. 33	357	−0. 36	66	−0. 46	116	−0. 22	82
+30 to + 39	− 5	−0. 01	54	−0. 14	300	−0. 30	167	−0. 36	41	−0. 27	54	−0. 15	48
+39 to + 60	+11	+0. 12	29	−0. 24	137	−0. 20	98	−0. 14	47	−0. 24	111	+0. 10	78
+60 to + 84	+29	+0. 10	53	0. 00	58	−0. 14	29	−0. 10	22	−0. 02	28	−0. 01	54
+85 to + 95	+51	+0. 03	168	−0. 38	169	−0. 95	135	−0. 78	112	−0. 25	139	−0. 09	260
+97 to +105	+65	+0. 12	27	−0. 55	23	−1. 48	4	----	---	−0. 53	6	−0. 22	38

The differences in the above table were plotted, as shown in Figure 4, and smooth curves were drawn through the points. The values of the differences were scaled off these curves for 9 a. m., 10 a. m., 11 a. m., noon, 1 p. m., 2 p. m., and 3 p. m. These values are given in the following table:

Adopted Values of the Day Minus Night Differences, 1911–1918

[Refractions Based on the Instrument Thermometer]

δ	z	9 a. m.	10 a. m.	11 a. m.	Noon	1 p. m.	2 p. m.	3 p. m.
°	°	″	″	″	″	″	″	″
− 20	−59	+0. 31	+0. 35	+0. 38	+0. 38	+0. 35	+0. 27	+0. 14
− 10	−49	+0. 19	+0. 22	+0. 20	+0. 14	+0. 06	0. 00	−0. 05
+ 6	−33	−0. 20	−0. 29	−0. 37	−0. 42	−0. 46	−0. 50	−0. 50
+ 16	−23	−0. 28	−0. 38	−0. 45	−0. 50	−0. 53	−0. 53	−0. 48
+ 26	−13	−0. 18	−0. 27	−0. 35	−0. 40	−0. 44	−0. 45	−0. 45
+ 34	− 5	−0. 17	−0. 25	−0. 33	−0. 35	−0. 38	−0. 36	−0. 32
+ 50	+11	−0. 24	−0. 23	−0. 17	−0. 10	−0. 08	−0. 10	−0. 17
+ 68	+29	−0. 05	−0. 11	−0. 15	−0. 14	−0. 11	−0. 08	−0. 04
+ 90	+51	−0. 55	−0. 80	−0. 97	−0. 95	−0. 83	−0. 62	−0. 36
+104	+65	−0. 96	−1. 32	−1. 51	−1. 48	−1. 33	−1. 04	−0. 70

FIGURE 4.—*Curves Showing the Differences, Day – Night, in Declination, for Observations Made during the Day at Various Zenith Distances*

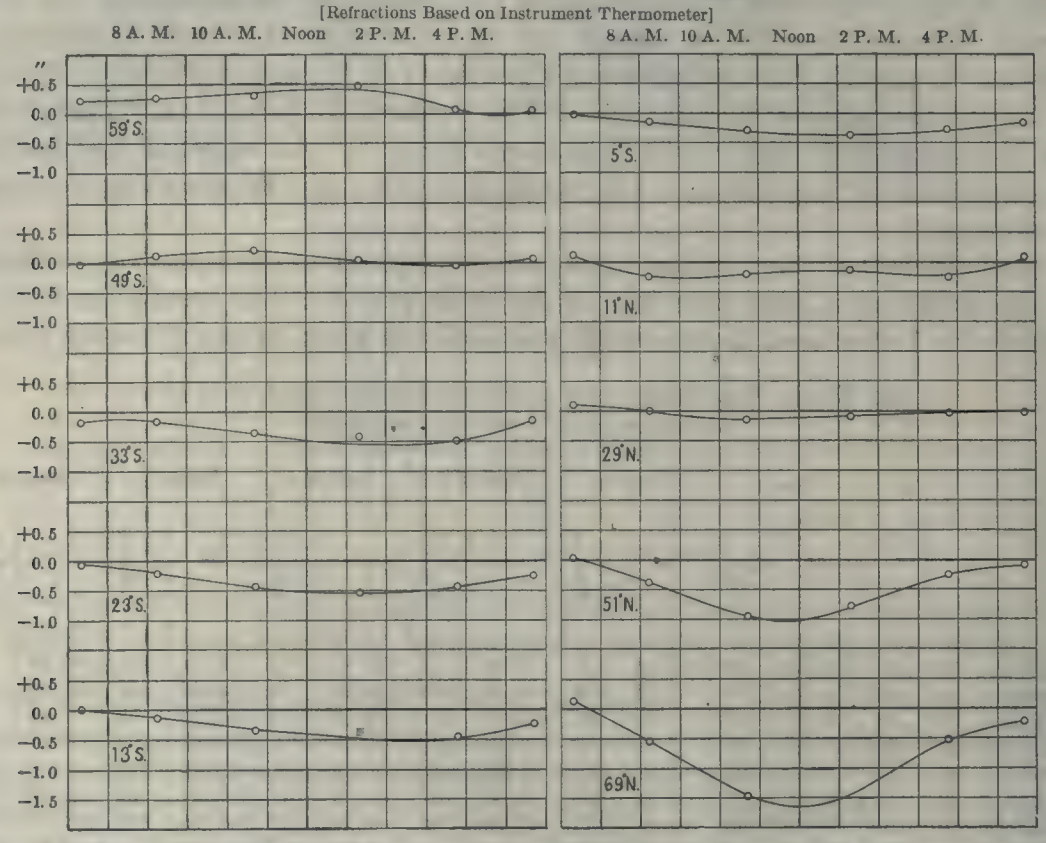
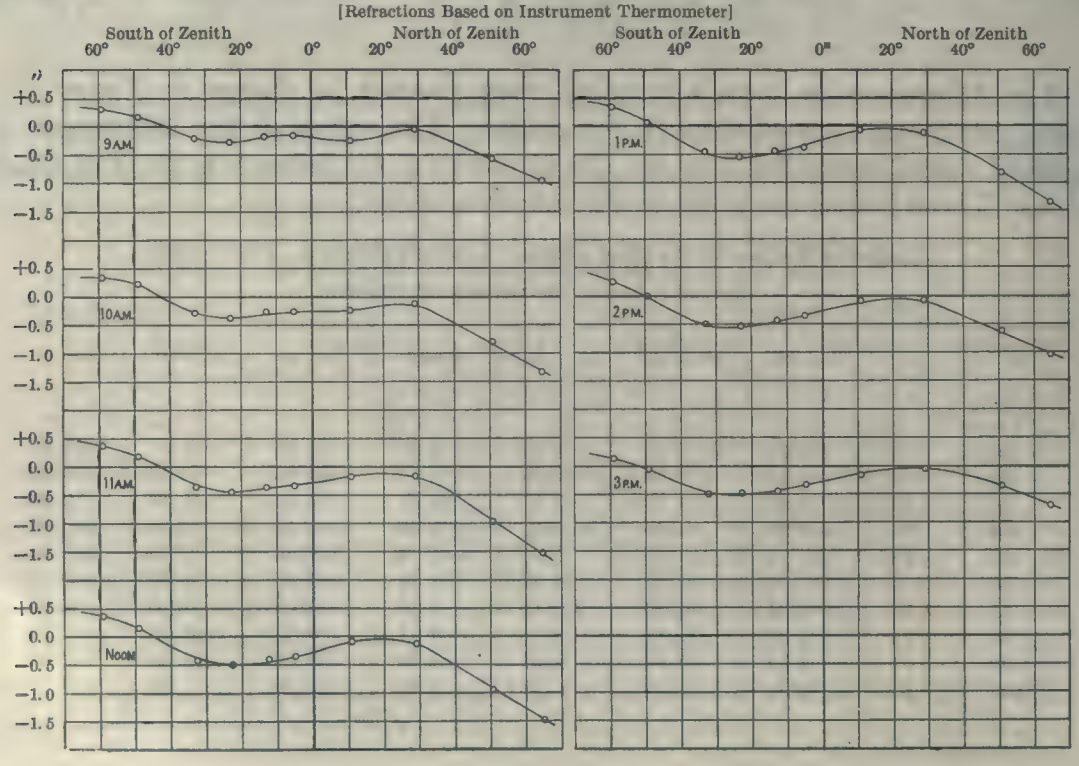


FIGURE 5.—*Curves Showing the Differences, Day – Night, in Declination, for Observations Made at Various Times of Day and at All Zenith Distances*



The adopted values of the Day and Night differences were plotted and interpolating curves were drawn through the points, as in Figure 5, from which were scaled off the corrections to the observed declinations derived from day observations. These are given in Table XII for such declinations as are needed in correcting the observations of the Sun, Mercury, and Venus.

The results obtained by using the refractions based on the external thermometer were treated in a similar manner.

Day Minus Night Differences in Observed Declinations, 1911–1918

[Refractions Based on the External Thermometer]

δ	z	Period 1		Period 2		Period 3		Period 4		Period 5		Period 6	
		Δδ	No. Obs'ns.	Δδ	No. Obs'ns.	Δδ	No. Obs'ns.	Δδ	No. Obs'ns.	Δδ	No. Obs'ns.	Δδ	No. Obs'ns.
° °	°	″		″		″		″		″		″	
−30 to − 16	−59	+0. 22	33	+0. 24	118	+0. 16	51	+0. 05	12	−0. 10	35	+0. 01	41
−16 to − 6	−49	−0. 04	76	+0. 11	259	+0. 11	122	−0. 18	79	−0. 13	132	+0. 05	103
− 5 to + 10	−33	−0. 16	115	−0. 18	595	−0. 45	227	−0. 58	50	−0. 56	78	−0. 18	62
+10 to + 20	−23	−0. 08	96	−0. 22	568	−0. 50	302	−0. 61	57	−0. 48	103	−0. 25	87
+20 to + 30	−13	0. 00	105	−0. 12	654	−0. 36	357	−0. 40	66	−0. 49	116	−0. 22	83
+30 to + 39	− 5	−0. 01	54	−0. 14	298	−0. 31	167	−0. 37	41	−0. 28	54	−0. 15	48
+39 to + 60	+11	+0. 11	29	−0. 23	137	−0. 17	98	−0. 10	46	−0. 22	111	+0. 10	78
+60 to + 84	+29	+0. 11	53	+0. 06	58	−0. 04	29	+0. 01	22	+0. 05	28	+0. 03	54
+85 to + 95	+51	+0. 06	168	−0. 43	169	−0. 77	135	−0. 53	112	−0. 15	139	−0. 05	260
+97 to +105	+65	+0. 15	27	−0. 74	23	−1. 28	4	----	---	−0. 21	6	−0. 15	38

Adopted Values of the Day Minus Night Differences, 1911–1918

[Refractions Based on the External Thermometer]

δ	z	9 a. m.	10 a. m.	11 a. m.	Noon	1 p. m.	2 p. m.	3 p. m.
°	°	″	″	″	″	″	″	″
− 20	−59	+0. 22	+0. 19	+0. 15	+0. 11	+0. 07	−0. 02	−0. 08
− 10	−49	+0. 13	+0. 13	+0. 08	−0. 01	−0. 08	−0. 14	−0. 15
+ 6	−33	−0. 25	−0. 37	−0. 48	−0. 55	−0. 58	−0. 60	−0. 56
+ 16	−23	−0. 29	−0. 41	−0. 52	−0. 59	−0. 61	−0. 60	−0. 54
+ 26	−13	−0. 18	−0. 27	−0. 35	−0. 42	−0. 46	−0. 48	−0. 46
+ 34	− 5	−0. 17	−0. 25	−0. 33	−0. 35	−0. 38	−0. 36	−0. 32
+ 50	+11	−0. 24	−0. 23	−0. 17	−0. 10	−0. 08	−0. 10	−0. 17
+ 68	+29	+0. 04	−0. 03	−0. 04	−0. 02	0. 00	+0. 03	+0. 05
+ 90	+51	−0. 55	−0. 72	−0. 76	−0. 71	−0. 58	−0. 43	−0. 26
+104	+65	−0. 92	−1. 18	−1. 31	−1. 25	−1. 07	−0. 78	−0. 45

No satisfactory analytical expression depending on the hour angle of the Sun and representing the differences between day and night observations in the various zones could be found.

Seasonal variation of day minus night differences.—The material in Period 2 (refractions based on the instrument thermometer) was examined for a possible seasonal variation. All of the observations south of the zenith were divided into two zones of declination and each zone was subdivided into four parts, depending on the time of year at which the observations were made. The results are given in the following table, in which the subscripts indicate the number of observations.

Seasonal Variation of Day Minus Night Differences

Dates \ δ	−30° to +10°	+10° to +39°	Weighted Means
	″	″	″
May 6 to Aug. 6	0.00_{86}	-0.21_{363}	-0.17_{449}
Aug. 6 to Nov. 6	-0.12_{360}	-0.24_{340}	-0.18_{700}
Nov. 6 to Feb. 6	0.00_{123}	-0.22_{219}	-0.14_{342}
Feb. 6 to May 6	-0.12_{99}	-0.19_{164}	-0.16_{263}

These observations show no appreciable seasonal change in the differences between day and night observed declinations.

Variation of the observed difference in declination between α Virginis and α Ursæ Minoris S. P.—The stars α Virginis and α Ursæ Minoris, which culminate within a few minutes of each other, were observed continuously during 1911–1918. By combining each observed correction to the ephemeris for α Virginis with that for α Ursæ Minoris S. P. obtained on the same day, there was derived a series of corrections to the difference in declination between the two stars. These corrections were assembled in 12 groups depending on the mean time, as defined on page 39. The weighted mean for the six night periods was subtracted from the means for all the periods, with the following results. (The refractions are based on the instrument thermometer.)

Day Periods	Δ	Night Periods	Δ
	″		″
1	$+0.16_{11}$	7	-0.15_{51}
2	-0.53_{28}	8	-0.02_{42}
3	-1.79_{9}	9	$+0.06_{15}$
4	-0.70_{55}	10	$+0.48_{5}$
5	-0.06_{32}	11	$+0.09_{34}$
6	-0.19_{45}	12	$+0.05_{18}$

The results are in substantial agreement with those in the table showing the variation of the day minus night differences.

COMPARISON WITH OTHER CATALOGUES

Period 1909–1910.—The final declinations, given on pages 661–664, were compared with the positions of NEWCOMB and Boss and with those derived from the 1911–1918 work. (See pp. 667 et seq.) Half weight was given to those stars which were observed less than eight times. The subscripts indicate the number of stars in the various zones.

$\Delta\delta$

δ	$W^1_{10}-N$	$W^1_{10}-B$	$W^1_{10}-W_{10}$
° °	″	″	″
+115 to +102	$+0.20_{13}$	$+0.14_{13}$	$+0.12_{12}$
+102 to + 90	-0.11_{11}	$+0.02_{11}$	$+0.07_{11}$
+ 90 to + 78	-0.09_{12}	0.00_{12}	$+0.03_{12}$
+ 78 to + 70	$+0.26_{10}$	$+0.18_{10}$	$+0.18_{10}$
+ 70 to + 60	-0.07_{13}	-0.03_{13}	$+0.01_{13}$
+ 60 to + 50	$+0.09_{16}$	$+0.32_{16}$	$+0.06_{16}$
+ 50 to + 39	$+0.06_{13}$	$+0.39_{13}$	$+0.21_{13}$
+ 39 to + 30	$+0.08_{12}$	$+0.41_{12}$	$+0.35_{12}$
+ 30 to + 20	$+0.12_{25}$	$+0.38_{25}$	$+0.32_{24}$
+ 20 to + 10	$+0.11_{20}$	$+0.42_{20}$	$+0.30_{20}$
+ 10 to 0	$+0.05_{21}$	$+0.32_{21}$	$+0.32_{21}$
0 to − 10	$+0.07_{17}$	$+0.38_{17}$	$+0.45_{17}$
− 10 to − 20	$+0.09_{15}$	$+0.31_{15}$	$+0.37_{14}$
− 20 to − 38	$+0.52_{14}$	$+0.33_{15}$	$+0.46_{12}$

Period 1911–1918.—The final declinations, given on pages 667–712, were compared with the positions of NEWCOMB, Boss, the Greenwich Catalogue of Fundamental Stars for 1910, the Second Cape Fundamental Catalogue for 1900, and the Washington Catalogue of 4526 Stars for 1900. In the last comparison, the material for the Ephemeris stars was furnished by the Nautical Almanac Office, United States Naval Observatory. All stars were given equal weight. The means at the bottom of each of the following tables are weighted according to the number of stars except in the case of $W_{10}-W_{00}$, where straight means are given.

$\Delta\delta$ $(W_{10}-N)$

δ \ α	0^h to 3^h	3^h to 6^h	6^h to 9^h	9^h to 12^h	12^h to 15^h	15^h to 18^h	18^h to 21^h	21^h to 24^h	0^h to 24^h
° °	″	″	″	″	″	″	″	″	″
+114 to +105	$+0.08_{9}$	$+0.35_{2}$	$+0.18_{7}$	$+0.08_{5}$	$+0.33_{4}$	$+0.21_{6}$	$+0.26_{8}$	$+0.33_{9}$	$+0.21_{51}$
+105 to + 90	-0.20_{5}	$+0.08_{5}$	$+0.02_{6}$	$+0.14_{5}$	-0.27_{5}	-0.04_{6}	$+0.14_{6}$	-0.33_{5}	-0.02_{43}
+ 90 to + 75	-0.23_{5}	$+0.04_{5}$	-0.10_{6}	$+0.14_{5}$	-0.06_{5}	-0.02_{6}	$+0.03_{6}$	-0.27_{5}	-0.06_{43}
+ 75 to + 65	-0.06_{9}	$+0.22_{3}$	$+0.10_{8}$	-0.02_{7}	$+0.12_{6}$	$+0.13_{7}$	$+0.19_{8}$	$+0.18_{10}$	$+0.10_{58}$
+ 65 to + 55	-0.06_{8}	-0.08_{6}	-0.16_{6}	$+0.06_{7}$	$+0.07_{8}$	-0.06_{10}	-0.29_{6}	-0.16_{9}	-0.10_{60}
+ 55 to + 45	-0.09_{10}	$+0.18_{9}$	-0.24_{6}	$+0.14_{4}$	$+0.14_{4}$	-0.02_{6}	-0.06_{5}	-0.02_{6}	0.00_{50}
+ 45 to + 35	$+0.07_{7}$	-0.08_{13}	-0.10_{7}	-0.24_{11}	-0.05_{11}	$+0.02_{8}$	-0.30_{12}	-0.15_{10}	-0.11_{79}
+ 35 to + 25	-0.19_{11}	0.00_{8}	-0.37_{15}	-0.28_{6}	-0.17_{8}	-0.14_{16}	-0.30_{9}	-0.16_{7}	-0.21_{80}
+ 25 to + 15	-0.10_{7}	-0.08_{19}	-0.20_{14}	-0.29_{10}	-0.15_{7}	0.00_{9}	-0.26_{10}	-0.04_{7}	-0.14_{83}
+ 15 to + 5	-0.15_{14}	-0.01_{12}	-0.27_{10}	-0.25_{14}	$+0.04_{7}$	-0.09_{7}	-0.18_{14}	-0.12_{12}	$+0.14_{90}$
+ 5 to − 5	-0.28_{10}	-0.30_{8}	-0.50_{7}	-0.56_{13}	-0.34_{9}	-0.42_{10}	-0.04_{10}	-0.28_{8}	-0.35_{75}
− 5 to − 15	-0.46_{9}	-0.42_{15}	-0.90_{15}	-0.53_{5}	-0.03_{11}	-0.59_{5}	-0.24_{8}	-0.28_{13}	-0.41_{71}
− 15 to − 25	-0.60_{7}	-0.80_{8}	-0.79_{8}	-0.23_{6}	-0.40_{10}	-0.28_{12}	-0.26_{11}	-0.07_{14}	-0.39_{76}
− 25 to − 35	$+0.10_{6}$	$+0.18_{6}$	$+0.11_{7}$	$+0.51_{4}$	$+0.28_{3}$	$+0.09_{7}$	-0.06_{13}	$+0.02_{7}$	$+0.10_{53}$
+ 90 to + 45	-0.09_{32}	$+0.09_{23}$	-0.09_{26}	$+0.07_{22}$	$+0.07_{23}$	0.00_{29}	-0.01_{25}	-0.04_{30}	-0.01_{211}
+ 35 to − 25	-0.28_{58}	-0.24_{70}	-0.50_{69}	-0.36_{64}	-0.20_{52}	-0.23_{59}	-0.21_{62}	-0.16_{61}	-0.28_{485}

$\Delta\delta\ (W_{10}-B)$

δ \ α	0^h to 3^h	3^h to 6^h	6^h to 9^h	9^h to 12^h	12^h to 15^h	15^h to 18^h	18^h to 21^h	21^h to 24^h	0^h to 24^h
° °	″	″	″	″	″	″	″	″	″
+114 to +105	$+0.04_{9}$	$+0.06_{4}$	$+0.12_{8}$	$+0.08_{5}$	$+0.19_{4}$	$+0.20_{7}$	$+0.28_{8}$	$+0.32_{9}$	$+0.17_{54}$
+105 to + 90	-0.20_{7}	-0.07_{10}	$+0.01_{10}$	-0.16_{8}	-0.01_{10}	$+0.14_{9}$	$+0.07_{10}$	-0.14_{10}	-0.04_{74}
+ 90 to + 75	-0.13_{7}	-0.05_{10}	$+0.03_{10}$	-0.10_{8}	$+0.11_{10}$	$+0.11_{9}$	$+0.08_{10}$	$+0.01_{10}$	$+0.02_{74}$
+ 75 to + 65	-0.12_{10}	-0.14_{5}	$+0.02_{11}$	$+0.04_{7}$	$+0.06_{8}$	$+0.04_{9}$	$+0.20_{9}$	$+0.15_{10}$	$+0.04_{69}$
+ 65 to + 55	$+0.23_{11}$	0.00_{12}	$+0.21_{13}$	$+0.18_{10}$	$+0.18_{11}$	$+0.03_{13}$	$+0.23_{12}$	$+0.01_{13}$	$+0.13_{95}$
+ 55 to + 45	$+0.18_{16}$	$+0.23_{13}$	$+0.19_{12}$	$+0.22_{10}$	$+0.25_{13}$	$+0.31_{11}$	$+0.22_{10}$	$+0.19_{9}$	$+0.22_{94}$
+ 45 to + 35	$+0.23_{17}$	$+0.17_{21}$	$+0.15_{13}$	$+0.13_{17}$	$+0.31_{13}$	$+0.25_{10}$	$+0.17_{15}$	$+0.20_{17}$	$+0.19_{123}$
+ 35 to + 25	$+0.06_{17}$	$+0.26_{10}$	$+0.03_{19}$	$+0.20_{16}$	$+0.11_{14}$	$+0.24_{22}$	$+0.20_{17}$	$+0.19_{13}$	$+0.16_{128}$
+ 25 to + 15	$+0.05_{17}$	$+0.09_{31}$	$+0.11_{27}$	$+0.10_{19}$	$+0.08_{13}$	$+0.17_{16}$	$+0.09_{19}$	$+0.41_{10}$	$+0.12_{152}$
+ 15 to + 5	$+0.13_{20}$	$+0.11_{21}$	-0.02_{22}	$+0.11_{22}$	$+0.14_{15}$	$+0.10_{12}$	$+0.10_{21}$	$+0.22_{20}$	$+0.11_{153}$
+ 5 to − 5	-0.03_{19}	-0.11_{16}	-0.27_{17}	$+0.10_{21}$	$+0.12_{17}$	$+0.07_{22}$	$+0.26_{14}$	$+0.09_{20}$	$+0.03_{146}$
− 5 to − 15	-0.16_{17}	-0.14_{29}	-0.22_{13}	-0.07_{16}	-0.06_{20}	$+0.01_{14}$	$+0.05_{21}$	0.00_{23}	-0.07_{153}
− 15 to − 25	-0.21_{11}	-0.38_{15}	-0.22_{23}	-0.03_{12}	$+0.01_{15}$	$+0.12_{22}$	$+0.02_{24}$	$+0.01_{27}$	-0.06_{149}
− 25 to − 35	$+0.01_{12}$	-0.12_{15}	-0.06_{14}	$+0.08_{18}$	$+0.24_{14}$	0.00_{17}	$+0.05_{23}$	$+0.25_{10}$	$+0.05_{123}$
+ 90 to + 45	$+0.08_{44}$	$+0.04_{40}$	$+0.12_{46}$	$+0.10_{35}$	$+0.16_{42}$	$+0.12_{42}$	$+0.18_{41}$	$+0.08_{42}$	$+0.11_{332}$
+ 35 to − 25	-0.01_{101}	-0.03_{122}	-0.08_{121}	$+0.08_{106}$	$+0.06_{94}$	$+0.13_{108}$	$+0.11_{78}$	$+0.12_{113}$	$+0.04_{843}$

$\Delta\delta\ (W_{10}-W_{00})$

δ \ α	0^h to 3^h	3^h to 6^h	6^h to 9^h	9^h to 12^h	12^h to 15^h	15^h to 18^h	18^h to 21^h	21^h to 24^h	0^h to 24^h
° °	″	″	″	″	″	″	″	″	″
+115 to +110	$+0.17_{5}$	$+0.04_{1}$	-0.11_{5}	-0.04_{3}	$+0.02_{1}$	-0.25_{5}	$+0.25_{1}$	$+0.17_{2}$	-0.02_{23}
+110 to +100	$+0.06_{7}$	0.00_{5}	$+0.12_{5}$	$+0.16_{4}$	-0.20_{6}	$+0.02_{7}$	$+0.02_{10}$	-0.10_{10}	0.00_{54}
+100 to + 90	-0.09_{4}	-0.04_{4}	$+0.06_{4}$	-0.04_{4}	-0.04_{2}	-0.12_{2}	-0.04_{4}	-0.15_{4}	-0.05_{28}
+ 90 to + 80	-0.11_{4}	-0.09_{4}	-0.11_{4}	-0.09_{5}	$+0.04_{2}$	$+0.04_{2}$	-0.11_{4}	-0.13_{4}	-0.09_{29}
+ 80 to + 70	-0.21_{7}	-0.04_{4}	$+0.06_{5}$	-0.04_{4}	-0.08_{6}	-0.01_{1}	-0.09_{10}	-0.13_{10}	-0.09_{47}
+ 70 to + 60	-0.20_{8}	-0.20_{7}	$+0.01_{8}$	-0.17_{7}	-0.15_{6}	-0.11_{7}	-0.16_{4}	-0.26_{7}	-0.15_{54}
+ 60 to + 50	-0.22_{13}	-0.19_{3}	-0.24_{7}	$+0.07_{7}$	-0.17_{8}	-0.28_{10}	-0.26_{6}	-0.31_{6}	-0.20_{60}
+ 50 to + 39	-0.41_{7}	-0.43_{18}	-0.48_{10}	-0.45_{8}	-0.38_{10}	-0.32_{8}	-0.39_{8}	-0.43_{11}	-0.42_{80}
+ 39 to + 30	-0.49_{12}	-0.46_{9}	-0.54_{8}	-0.34_{8}	-0.52_{5}	-0.37_{12}	-0.53_{12}	-0.47_{6}	-0.46_{72}
+ 30 to + 20	-0.63_{14}	-0.69_{21}	-0.67_{29}	-0.55_{10}	-0.55_{7}	-0.70_{12}	-0.74_{8}	-0.61_{10}	-0.65_{111}
+ 20 to + 10	-0.81_{15}	-0.71_{20}	-0.78_{20}	-0.75_{22}	-0.65_{10}	-0.75_{11}	-0.82_{14}	-0.79_{7}	-0.76_{119}
+ 10 to 0	-0.68_{23}	-0.79_{15}	-0.82_{10}	-0.74_{23}	-0.71_{11}	-0.80_{10}	-0.76_{11}	-0.70_{15}	-0.74_{118}
0 to − 10	-0.89_{13}	-0.94_{14}	-0.91_{5}	-1.06_{12}	-1.01_{24}	-1.02_{6}	-0.85_{11}	-0.80_{23}	-0.92_{108}
− 10 to − 20	-1.05_{7}	-1.00_{9}	-0.82_{9}	-0.78_{9}	-1.00_{20}	-0.96_{23}	-0.87_{18}	-0.75_{27}	-0.89_{122}
− 20 to − 30	-0.80_{10}	-0.81_{8}	-0.76_{8}	-0.77_{5}	-0.98_{10}	-0.90_{25}	-0.77_{33}	-0.77_{10}	-0.82_{109}
− 30 to − 35	-1.07_{3}	-0.59_{5}	-0.50_{4}	-0.83_{3}	-0.61_{4}	-0.90_{4}	-0.90_{2}	-0.64_{6}	-0.72_{31}
+ 70 to + 39	−0.28	−0.27	−0.24	−0.18	−0.23	−0.24	−0.27	−0.33	
+ 39 to − 30	−0.76	−0.77	−0.76	−0.71	−0.77	−0.79	−0.76	−0.70	

$\Delta\delta$ $(W_{10} - Gr_{10})$

δ \ α	0^h to 3^h	3^h to 6^h	6^h to 9^h	9^h to 12^h	12^h to 15^h	15^h to 18^h	18^h to 21^h	21^h to 24^h	0^h to 24^h
° °	″	″	″	″	″	″	″	″	″
+120 to +110	$+0.06_{7}$	$+0.38_{2}$	$+0.18_{6}$	$+0.04_{4}$	$+0.33_{2}$	$+0.06_{6}$	-0.08_{3}	$+0.28_{3}$	$+0.12_{33}$
+110 to +100	$+0.01_{7}$	-0.04_{5}	$+0.06_{5}$	$+0.11_{3}$	-0.14_{6}	-0.09_{7}	$+0.05_{9}$	$+0.05_{10}$	0.00_{52}
+100 to + 90	-0.32_{4}	$+0.03_{4}$	$+0.16_{4}$	-0.10_{3}	-0.17_{3}	-0.04_{2}	-0.08_{4}	-0.08_{4}	-0.07_{28}
+ 90 to + 80	-0.14_{4}	-0.04_{4}	$+0.06_{4}$	$+0.01_{3}$	$+0.05_{3}$	-0.01_{2}	-0.14_{4}	-0.01_{4}	-0.03_{23}
+ 80 to + 70	-0.13_{7}	-0.05_{5}	-0.05_{5}	$+0.04_{3}$	-0.13_{6}	-0.10_{7}	0.00_{9}	0.00_{10}	-0.05_{52}
+ 70 to + 60	-0.03_{8}	$+0.01_{7}$	$+0.12_{7}$	-0.20_{8}	-0.07_{6}	-0.01_{7}	-0.20_{4}	-0.19_{7}	-0.07_{54}
+ 60 to + 50	$+0.05_{11}$	-0.33_{2}	$+0.07_{5}$	-0.02_{7}	-0.02_{7}	$+0.10_{9}$	$+0.11_{7}$	-0.02_{6}	$+0.03_{54}$
+ 50 to + 40	-0.17_{8}	-0.12_{16}	-0.28_{8}	-0.17_{9}	-0.10_{9}	-0.23_{7}	-0.35_{6}	-0.26_{10}	-0.20_{73}
+ 40 to + 30	-0.31_{8}	-0.26_{10}	-0.10_{10}	$+0.18_{7}$	$+0.06_{7}$	-0.18_{12}	-0.20_{12}	-0.51_{7}	-0.17_{73}
+ 30 to + 20	-0.28_{14}	-0.25_{17}	-0.23_{24}	-0.25_{9}	-0.52_{6}	-0.41_{12}	-0.59_{9}	-0.40_{10}	-0.33_{101}
+ 20 to + 10	-0.19_{9}	-0.13_{16}	-0.21_{12}	-0.25_{15}	-0.42_{10}	-0.23_{11}	-0.42_{14}	-0.44_{7}	-0.27_{94}
+ 10 to 0	-0.22_{18}	-0.38_{12}	-0.12_{10}	-0.19_{17}	-0.20_{12}	-0.38_{10}	-0.11_{10}	-0.42_{13}	-0.25_{102}
0 to − 10	-0.50_{11}	-0.40_{13}	-0.67_{5}	-0.34_{9}	-0.60_{16}	-0.59_{5}	-0.44_{9}	-0.34_{14}	-0.47_{82}
− 10 to − 20	-0.73_{8}	-0.45_{7}	-0.47_{9}	-0.39_{9}	-0.71_{15}	-0.58_{17}	-0.61_{11}	-0.70_{22}	-0.60_{98}
− 20 to − 30	-0.62_{4}	-0.38_{6}	-0.68_{4}	-0.92_{5}	-1.06_{9}	-0.60_{16}	-0.63_{21}	-0.67_{10}	-0.68_{75}
+ 90 to + 50	-0.04_{30}	-0.06_{18}	$+0.05_{21}$	-0.08_{21}	-0.06_{22}	0.00_{25}	-0.02_{24}	-0.06_{27}	-0.03_{188}
+ 40 to − 30	-0.36_{72}	-0.30_{81}	-0.28_{74}	-0.27_{71}	-0.52_{75}	-0.43_{83}	-0.45_{86}	-0.52_{83}	-0.39_{625}

$\Delta\delta$ $(W_{10} - C_{00})$

δ \ α	0^h to 3^h	3^h to 6^h	6^h to 9^h	9^h to 12^h	12^h to 15^h	15^h to 18^h	18^h to 21^h	21^h to 24^h	0^h to 24^h
° °	″	″	″	″	″	″	″	″	″
+35 to +30	-0.09_{7}	0.00_{10}	-0.08_{10}	-0.13_{13}	-0.22_{8}	-0.05_{11}	$+0.06_{11}$	-0.02_{7}	-0.06_{77}
+30 to +25	-0.01_{11}	-0.02_{10}	-0.08_{13}	-0.02_{12}	-0.10_{12}	$+0.02_{11}$	$+0.04_{10}$	$+0.04_{13}$	-0.02_{92}
+25 to +20	$+0.01_{13}$	-0.05_{14}	-0.09_{12}	-0.04_{14}	-0.01_{10}	0.00_{10}	$+0.01_{11}$	$+0.05_{9}$	-0.02_{93}
+20 to +15	$+0.16_{8}$	$+0.04_{12}$	$+0.01_{11}$	0.00_{11}	-0.03_{13}	$+0.03_{10}$	$+0.06_{10}$	$+0.04_{8}$	$+0.04_{83}$
+15 to +10	$+0.09_{11}$	-0.01_{10}	0.00_{13}	$+0.20_{13}$	$+0.10_{8}$	$+0.13_{12}$	$+0.18_{13}$	$+0.21_{11}$	$+0.11_{91}$
+10 to + 5	$+0.01_{17}$	$+0.05_{15}$	$+0.10_{13}$	$+0.05_{11}$	$+0.04_{11}$	$+0.12_{12}$	$+0.17_{11}$	$+0.18_{14}$	$+0.09_{104}$
+ 5 to 0	$+0.18_{8}$	$+0.06_{9}$	$+0.26_{9}$	$+0.21_{13}$	$+0.26_{11}$	$+0.19_{13}$	$+0.16_{13}$	$+0.32_{14}$	$+0.21_{90}$
0 to − 5	$+0.03_{11}$	$+0.10_{12}$	$+0.09_{12}$	$+0.05_{11}$	$+0.22_{11}$	$+0.12_{11}$	$+0.23_{10}$	$+0.16_{14}$	$+0.12_{92}$
− 5 to −10	-0.04_{11}	$+0.05_{14}$	-0.08_{11}	-0.03_{11}	-0.07_{13}	$+0.06_{13}$	$+0.07_{12}$	$+0.11_{12}$	$+0.01_{97}$
−10 to −15	-0.07_{13}	-0.05_{10}	-0.10_{10}	$+0.06_{12}$	-0.16_{11}	-0.05_{10}	$+0.09_{11}$	$+0.07_{10}$	-0.03_{87}
−15 to −20	-0.02_{11}	-0.03_{13}	-0.02_{14}	-0.11_{10}	-0.04_{12}	-0.06_{10}	$+0.06_{11}$	0.00_{16}	-0.02_{97}
−20 to −25	-0.20_{10}	-0.21_{13}	-0.20_{12}	-0.13_{10}	-0.11_{11}	-0.05_{13}	$+0.13_{11}$	$+0.07_{13}$	-0.08_{93}
−25 to −30	-0.19_{11}	-0.02_{11}	-0.02_{12}	-0.05_{12}	$+0.01_{10}$	-0.04_{16}	$+0.02_{18}$	-0.03_{9}	-0.03_{99}
−30 to −35	-0.22_{6}	-0.14_{7}	-0.07_{5}	$+0.09_{4}$	$+0.22_{4}$	$+0.19_{3}$	-0.02_{5}	$+0.20_{1}$	-0.02_{35}
+35 to −30	-0.01_{142}	-0.01_{153}	-0.02_{152}	$+0.01_{153}$	-0.01_{141}	$+0.03_{152}$	$+0.10_{152}$	$+0.10_{150}$	$+0.02_{1195}$

THE SUN

The methods of reduction of the Sun observations are the same as those of the stars, except as to adopted clock corrections and corrections for parallax. The method of adopting the clock corrections is given on page 38 and the corrections for parallax were taken from Table XVII, Appendix II, Volume IV, Publications of the United States Naval Observatory, Second Series. The final results given on pages 153 to 172 are published without the application of day corrections and with refractions based on the instrument thermometer. Corrections are given in column

10 to reduce the observed declinations to the values which would be obtained by the use of the external thermometer. In the discussion for the equinox correction, etc., the day corrections given in Table XII were applied and solutions were made with the refractions based on the instrument thermometer and also on the external thermometer.

Relative personal equation.—The following table gives the differences in the observed right ascensions and declinations of the Sun by the different observers. Means were formed for each calendar month by observers, and the differences between these means taken for each pair of observers working during any month. Finally the monthly means for each pair of observers were combined into a single mean, weights being assigned according to the number of observations.

Differences in the Observed Right Ascensions and Declinations of the Sun, by Different Observers

Observers	Differences		Weights		Observers	Differences		Weights	
	α	δ	α	δ		α	δ	α	δ
	s	"				s	"		
Hd.—Fn..	−0. 003	+0. 13	215	227	Fn. —R...	+0. 005	+0. 11	92	96
Hd.—R...	+0. 001	+0. 02	83	81	Fn. —Wy.	+0. 005	+0. 03	129	139
Hd.—Wy.	0. 000	+0. 17	123	128	Fn. —An..	+0. 011	−0. 18	31	33
Hd.—An..	+0. 003	−0. 18	30	27	Wy.—An..	+0. 008	−0. 36	32	30

Solving to obtain the relative personality with respect to the observer, *Hd.*, we have

	α	δ
	s	"
Hd.—Fn.	=−0.004	+0.13
Hd.—R.	=+0.001	+0.02
Hd.—Wy.	= 0.000	+0.17
Hd.—An.	=+0.006	−0.14

The results, both in right ascension and declination, are so small that they may be regarded as being of the nature of accidental errors and the observed right ascensions and declinations for all the observers were combined in the solution for the equinox correction without applying corrections for personal equation.

The results in right ascension confirm the determinations made with the personal equation machine whereby each observer was found to have the same personal equation for the Sun as for the clock stars. See page 23.

Clamp differences.—Combining the results of the various observers, the mean differences, Clamp East minus Clamp West, were formed for each calendar month and the results for the different months were combined in a general mean with weights assigned according to the number of observations. The results for each position of the instrument are as follows:

Clamp Differences (E—W)

Position	α	δ
	s	"
II_1	+0.017	+0.27
I	+0.002	−0.22
II_2	+0.036	−0.18

Differences depending on the position of the instrument.—Combining the results of the two clamps, means were taken by calendar months for each position of the instrument. Differences were then obtained between the results for each position and the mean of all three positions. These monthly differences were then combined in a general mean for each position. These means are given in the following table:

Position	α	δ
	s	"
II_1	+0.011	+0.16
I	−0.004	−0.08
II_2	−0.014	−0.09

Discussion for equinox correction.—

Let $\Delta\alpha$ = the observed correction to the tabular right ascension of the Sun,
$\Delta\delta$ = the observed correction to the tabular declination of the Sun,
π = the longitude of perigee of the orbit of the Sun,
M = the mean longitude of the Sun,
ϵ = the obliquity of the ecliptic,
e = the eccentricity of the orbit of the Sun,
$h = e \cos \pi$,
$k = e \sin \pi$,
E = the equinox correction to the adopted right ascensions of the clock stars,
and Δ_0 = a constant error in the declination system in the vicinity of the equator.

Then each observation in right ascension and declination gives rise to equations of condition of the form

$$\Delta\alpha = -E + \cos\epsilon \sec^2\delta \, dM - \cos\alpha \tan\delta \, d\epsilon + 2 \sin\alpha \sec\delta \, dh - 2 \cos\alpha \cos\epsilon \sec\delta \, dk$$

and

$$\Delta\delta = \Delta_0 + \cos\alpha \sin\epsilon \, dM + \sin\alpha \, d\epsilon + 2 \sin\delta \cos\alpha \, dh - 2 \cos^2\alpha \cos\delta \sin\epsilon \, dk$$

Separate solutions were made for each clamp in Position II_1 and Position I. For Position II_2, one solution was made, combining the two clamps. In each solution the observations were collected in 12 groups of approximately equal weight.

The right ascension equations are not well adapted to determine E and dM separately. The declination equations were therefore solved first, and the resulting values of dM were substituted in the right ascension normal equations before the latter were solved.

Results of Solutions

[Refractions Based on Instrument Thermometer]

Declinations

Instrument	Years	No. Obs'ns.	Δ_0	dM	$d\epsilon$	dh	dk	Prob. Error of Wt. 1
			″ ″	″ ″	″ ″	″ ″	″ ″	″
E II_1	1911–1913	169	+0. 242±0. 107	+0. 411±0. 214	−0. 583±0. 090	−0. 115±0. 204	+0. 215±0. 214	±0. 214
W II_1	1911–1913	173	−0. 284±0. 072	+0. 882±0. 145	−0. 580±0. 061	−0. 271±0. 138	−0. 318±0. 145	±0. 145
E I	1913–1917	255	+0. 217±0. 070	+0. 803±0. 140	−0. 564±0. 059	+0. 215±0. 133	+0. 258±0. 140	±0. 140
W I	1913–1917	247	+0. 392±0. 058	+0. 918±0. 115	−0. 173±0. 048	+0. 216±0. 110	+0. 080±0. 115	±0. 115
E II_2+W II_2	1917–1918	128	+0. 310±0. 110	+0. 656±0. 220	−0. 270±0. 092	−0. 163±0. 210	+0. 116±0. 220	±0. 220
Weighted Means			+0. 176±0. 033	+0. 814±0. 069	−0. 393±0. 029	+0. 032±0. 065	+0. 035±0. 069	

Right Ascensions

Instrument	Years	No. Obs'ns.	E	$d\epsilon$	dh	dk	Prob. Error of Wt. 1
			″ ″	″ ″	″ ″	″ ″	″
E II_1	1911–1913	166	−1. 574±0. 049	−0. 423±0. 308	−0. 176±0. 033	+0. 142±0. 036	±0. 169
W II_1	1911–1913	169	−0. 837±0. 031	−0. 427±0. 193	−0. 085±0. 021	+0. 275±0. 023	±0. 106
E I	1913–1917	252	−1. 386±0. 027	+0. 208±0. 171	−0. 262±0. 018	+0. 079±0. 020	±0. 094
W I	1913–1917	248	−1. 092±0. 028	+0. 175±0. 179	−0. 061±0. 019	+0. 037±0. 021	±0. 098
E II_2+W II_2	1917–1918	121	−1. 557±0. 049	−0. 046±0. 304	−0. 199±0. 033	+0. 109±0. 036	±0. 167
Weighted Means			−1. 214±0. 015	−0. 026±0. 091	−0. 153±0. 010	+0. 121±0. 011	

Results of Solutions

[Refractions Based on External Thermometer]

Declinations

Instrument	Years	No. Obs'ns.	Δ_0	dM	$d\epsilon$	dh	dk	Prob. Error of Wt. 1
			″ ″	″ ″	″ ″	″ ″	″ ″	″
E II_1	1911–1913	169	+0. 118±0. 097	+0. 379±0. 194	−0. 484±0. 081	−0. 142±0. 185	+0. 237±0. 194	±0. 194
W II_1	1911–1913	173	−0. 380±0. 062	+0. 834±0. 123	−0. 489±0. 052	−0. 215±0. 118	−0. 245±0. 123	±0. 123
E I	1913–1917	255	+0. 025±0. 078	+0. 854±0. 157	−0. 421±0. 066	+0. 239±0. 150	+0. 244±0. 157	±0. 157
W I	1913–1917	247	+0. 219±0. 049	+0. 893±0. 098	−0. 051±0. 041	+0. 237±0. 093	+0. 137±0. 098	±0. 098
E II_2+W II_2	1917–1918	128	+0. 110±0. 116	+0. 595±0. 231	−0. 130±0. 097	−0. 112±0. 220	+0. 088±0. 231	±0. 231
Weighted means			+0. 020±0. 031	+0. 794±0. 063	−0. 275±0. 027	+0. 060±0. 059	+0. 071±0. 062	

Right Ascensions

Instrument	Years	No. Obs'ns.	E	$d\epsilon$	dh	dk	Prob. Error of Wt. 1
			″ ″	″ ″	″ ″	″ ″	″
E II_1	1911–1913	166	−1. 606±0. 049	−0. 473±0. 306	−0. 175±0. 033	+0. 142±0. 036	±0. 168
W II_1	1911–1913	169	−0. 885±0. 030	−0. 436±0. 190	−0. 085±0. 020	+0. 275±0. 022	±0. 104
E I	1913–1917	252	−1. 334±0. 027	+0. 228±0. 171	−0. 262±0. 018	+0. 079±0. 020	±0. 094
W I	1913–1917	248	−1. 117±0. 028	+0. 157±0. 177	−0. 061±0. 019	+0. 037±0. 021	±0. 097
E II_2+W II_2	1917–1918	121	−1. 619±0. 049	−0. 039±0. 310	−0. 199±0. 033	+0. 109±0. 037	±0. 170
Weighted means			−1. 223±0. 015	−0. 030±0. 091	−0. 153±0. 010	+0. 121±0. 011	

Combining the results of the five separate solutions of the right ascension and declination observations with weights according to the probable errors, we have

Thermometer	E	Δ_0	dM	$d\epsilon$	dh	dk
	″ ″	″ ″	″ ″	″ ″	″ ″	″ ″
Instrument	−1. 214±0. 015	+0. 176±0. 033	+0. 814±0. 069	−0. 361±0. 027	−0. 148±0. 010	+0. 119±0. 010
External	−1. 223±0. 015	+0. 020±0. 031	+0. 794±0. 063	−0. 254±0. 025	−0. 148±0. 010	+0. 119±0. 010

The proper temperature to be used in computing the refraction for an observation of the Sun is somewhat uncertain. The errors due to this cause are only partly removed by the application of the day corrections, since the latter are based on observations of stars made some time before or after noon, and on the assumption that they follow a smooth curve. The latter assumption evidently does not entirely represent the true facts.

The only unknowns seriously affected by this uncertainty are Δ_0 and $d\epsilon$. The means of the two sets of values have been adopted as the most probable values of the unknowns to be derived from the observations.

These adopted values are

$$E = -1.218 = -0.081$$
$$\Delta_0 = +0.098$$
$$dM = +0.804$$
$$d\epsilon = -0.308$$
$$dh = -0.148$$
$$dk = +0.119$$

The observations of the Sun in declination indicate that the declination system based on observations with this instrument during 1911–1918 requires a correction in the vicinity of the equator of $-0''.10$.

CORRECTION TO THE EPHEMERIS SEMIDIAMETER

The following mean corrections to the sidereal time of semidiameter passing the meridian, and to the vertical semidiameter, 16′ 1″.50 at unit distance, as given in the annual volumes of the American Ephemeris, are obtained from columns 7 and 12, respectively, pages 153 to 172.

Observer	Right Ascension		Declination	
	Corr.	No. Obs.	Corr.	No. Obs.
	s		″	
Hammond	+0.019	286	−0.16	273
Frederickson	−0.053	328	−0.24	336
Tillyer	−0.045	6	−0.55	6
Rines	+0.030	110	+0.66	112
Wylie	−0.028	181	−0.81	173
Aston	+0.024	44	+0.65	42
Means (by observations)	−0.014	955	−0.18	942
[1] Means (by observers)	−0.002	---	+0.02	---

[1] Omitting Tillyer on account of small number of observations.

MERCURY AND VENUS

The methods of reduction of the observations of Mercury and Venus are identical with those of the stars except as to the adopted clock corrections and corrections for parallax, defective illumination, and semidiameter. The method of

adopting the clock correction is given on page 39 and the corrections for parallax and defective illumination were computed by the aid of Tables XVII and XXIV, Appendix II, Volume IV, Publications of the United States Naval Observatory, Second Series. The values of the semidiameter have been taken from the American Ephemeris.

In the case of Mercury, the center of light was always observed in both right ascension and declination, except on one occasion, May 2, 1913, when the north limb of the planet was observed in declination; in the case of Venus, the limbs of the planet were always observed in both coordinates, except on five occasions noted at the end of the table of *Individual Observations of Venus* when the center of the portion of the illuminated disk at the bright limb was observed in right ascension. The final results, pages 173 to 179, are given without the application of day corrections or corrections for personal equation and equinox. Corrections are given in the last column to reduce the observed declinations to the values which would be obtained by the use of the external thermometer in computing the refractions.

After applying day corrections and the adopted correction for equinox, $-0^s.081$, the residuals in right ascension and declination were grouped in two ways, following the arguments

(1) l, the heliocentric longitude of the planet;

(2) $l-L$, the difference between the longitudes of the planet and the earth.

The mean values for each group are given in the following tables:

Mercury

l	$\Delta\alpha$	No. Obs.	$\Delta\delta$ Instrument Thermometer	$\Delta\delta$ External Thermometer	No. Obs.	$l-L$	$\Delta\alpha$	No. Obs.	$\Delta\delta$ Instrument Thermometer	$\Delta\delta$ External Thermometer	No. Obs.
° °	s		″	″		° °	s		″	″	
0– 30	+0.078	18	+0.11	+0.03	18	0– 30	-----	--	----	----	--
30– 60	+0.084	14	+0.13	+0.06	16	30– 60	+0.091	5	−0.32	−0.44	5
60– 90	+0.085	17	−0.10	−0.19	17	60– 90	+0.103	33	−0.39	−0.49	34
90–120	+0.087	12	−0.22	−0.28	12	90–120	+0.107	27	−0.39	−0.50	26
120–150	+0.080	15	−0.49	−0.59	15	120–150	+0.102	27	−0.34	−0.44	29
150–180	+0.069	21	−0.27	−0.34	21	150–180	+0.088	21	+0.01	−0.06	18
180–210	+0.061	23	−0.54	−0.62	24	180–210	+0.095	18	+0.12	+0.07	18
210–240	+0.059	26	−0.70	−0.79	24	210–240	+0.060	18	−0.47	−0.54	19
240–270	+0.045	22	−0.70	−0.80	20	240–270	+0.047	31	−0.53	−0.62	31
270–300	+0.084	21	−0.39	−0.54	23	270–300	+0.027	29	−0.30	−0.39	30
300–330	+0.064	18	−0.39	−0.43	18	300–330	−0.016	13	−0.69	−0.74	14
330–360	+0.101	15	−0.22	−0.36	16	330–360	-----	--	----	----	--

Venus

l	$\Delta\alpha$	No. Obs.	$\Delta\delta$ Instrument Thermometer	$\Delta\delta$ External Thermometer	No. Obs.	$l-L$	$\Delta\alpha$	No. Obs.	$\Delta\delta$ Instrument Thermometer	$\Delta\delta$ External Thermometer	No. Obs.
° °	s		″	″		° °	s		″	″	
0– 30	+0.048	9	−0.58	−0.66	9	315–330	+0.037	13	−0.94	−0.98	14
30– 60	+0.121	8	−0.69	−0.71	8	330–345	−0.067	15	−0.60	−0.70	14
60– 90	-----	--	----	----	--	345–360	−0.094	12	−0.78	−0.82	12
90–120	−0.034	10	−0.28	−0.34	11	0– 15	−0.050	15	−0.86	−0.95	16
120–150	0.000	12	−0.76	−0.85	11	15– 30	+0.079	17	−0.76	−0.81	17
150–180	−0.024	9	−0.77	−0.84	9	30– 45	+0.074	12	−0.76	−0.80	11
180–210	+0.087	5	−0.20	−0.28	5	45– 60	+0.151	5	−0.66	−0.68	5
210–240	+0.006	6	−1.55	−1.63	6						
240–270	−0.108	6	−0.68	−0.72	6						
270–300	−0.101	5	−1.18	−1.18	5						
300–330	+0.016	12	−0.85	−0.88	13						
330–360	+0.030	7	−1.50	−1.55	6						

The residuals in declination for Mercury and Venus were also grouped according to the declination of the planets, with the following results:

Declination	Mercury $\Delta\delta$ Instrument Thermometer	Mercury $\Delta\delta$ External Thermometer	Mercury No. Obs.	Venus $\Delta\delta$ Instrument Thermometer	Venus $\Delta\delta$ External Thermometer	Venus No. Obs.
° °	″	″		″	″	
−30 to −20	−0.33	−0.43	24	−0.94	−1.04	13
−20 to −10	−0.49	−0.60	48	−0.63	−0.67	34
−10 to 0	−0.52	−0.65	44	−0.71	−0.82	13
0 to +10	−0.24	−0.28	32	----	----	--
+10 to +20	−0.02	−0.08	28	−0.90	−0.92	18
+20 to +30	−0.29	−0.35	48	−0.95	−0.98	11

RESULTS OF OBSERVATIONS OF THE SUN, MERCURY, AND VENUS

On pages 153 to 179 are given the observed right ascensions, declinations, and semidiameters of these bodies, with the corresponding corrections to the ephemeris values. The temperatures used in computing the refractions are those given by the instrument thermometer. A column of corrections necessary to reduce the observed declinations to the values which would be obtained by the use of the external thermometer is given in each table of results.

No day corrections and no corrections for personal equation or equinox have been applied to the observations of the Sun, Mercury, and Venus.

INDIVIDUAL RESULTS OF OBSERVATIONS OF STARS

For the stars contained in the American Ephemeris, the individual results are given as corrections to the Ephemeris positions. Under the name of each of these stars is given its position from NEWCOMB's Catalogue of Fundamental Stars referred to the mean equator and equinox of 1910.0 and corrected by the proper motions of that catalogue to the mean epoch of the observations.

For the other stars, the positions resulting from the individual observations are given referred to the mean equator and equinox of 1910.0. The epoch in each case is the epoch of the observation, as no proper motion has been used in computing the reduction to 1910.0.

All positions resulting from observations during daylight are printed in italics and have *not* been included in the final means. The reflected observations are indicated by the letter *R* and have also been excluded in forming the means. A few observations which have been rejected for various reasons are inclosed in brackets.

For the daylight observations, the results in declination, 1911–1918, are given in two columns. In the first column, the refractions are computed with the external thermometer; in the second column, with the instrument thermometer.

The last three columns, 1911–1918, give the screen used, the estimated magnitude corrected for the screen equivalent, and the seeing on the scale 1–5, where 1 represents the best and 5 the poorest seeing. Whenever an observation was made through haze or clouds, or in the daylight, the estimated magnitude has been omitted.

In the declination observations made in the years 1909–1910, the results of Circle A and Circle B are given in separate columns; Circle B was not used in the years 1911–1918.

The equinox correction and the correction for adopted latitude and refraction are given for each star directly under the mean results in right ascension and declination, respectively.

THE STAR CATALOGUE

As stated above, only direct observations made at night are included in the formation of the *Catalogue*.

The *Name* is taken from one of the following sources: (1) The American Ephemeris, (2) NEWCOMB's Fundamental Catalogue, (3) Provisional General List of Fundamental Stars for 1915.0, published as a Supplement to the *Connaissance des Temps* for 1914, (4) Bonner Durchmusterung.

The *Magnitude* is taken from The HENRY DRAPER Catalogue in Annals of the Astronomical Observatory of Harvard College, Volumes 91 to 99. The magnitudes of five miscellaneous stars not contained therein are taken from the A. G. Catalogues, as indicated in the footnotes. In the case of double stars where the combined magnitudes only are given in the DRAPER Catalogue, the magnitudes of the components which were observed are taken from BURNHAM's General Catalogue of Double Stars.

The *Right Ascension* 1910.0 is obtained from the *Individual Results of Observations of Stars* by applying the equinox correction, $-0^s.081$, to the mean of the

individual right ascensions for nonephemeris stars or, together with the mean of the observed corrections, to the mean right ascension given directly under the name of the star.

The *Declination* 1910.0 is obtained from the *Individual Results of Observations of Stars* by applying the adopted correction for latitude and refraction to the mean of the individual declinations for nonephemeris stars or, together with the mean of the observed corrections, to the mean declination given directly under the name of the star. When both circles were used, the weighted mean of the results for the two circles was taken in forming the catalogue declination.

The *Annual Precessions* and their *Secular Variations* were computed by aid of the data given in DOWNING's Precession Tables for the epoch 1910.0.

The *Annual Proper Motions* are taken from Boss's Preliminary General Catalogue and HEDRICK's Zodiacal Catalogue for the stars found therein. For stars indicated by an asterisk in the first column, the proper motions are taken from PORTER's Catalogue of Proper Motion Stars.

When for any star two numbers are found under *Number of Observations* or two dates under *Mean Date*, the first applies to the right ascension and the second to the declination.

TABLE I.—*The Equatorial Thread Intervals from the Center of the Field*

	Fixed Vertical Threads						
Clamp East Clamp West	I VII	II VI	III V	IV IV	V III	VI II	VII I
Feb. 6 to May 24, 1909	s ±41.7	s ±32.3	s ±17.1	s ±5.7	s ∓5.8	s ∓21.0	s ∓30.5

	Fixed Vertical Threads									
Clamp East Clamp West	I X	II IX	III VIII	IV VII	V VI	VI V	VII IV	VIII III	IX II	X I
June 21, 1909, to Nov. 26, 1910	s ±51.0	s ±36.0	s ±26.0	s ±14.0	s ±6.0	s ∓6.0	s ∓14.0	s ∓26.0	s ∓36.0	s ∓51.0

	Fixed Vertical Threads									
Clamp East Clamp West	B B	A A	I VIII	II VII	III VI	IV V	V IV	VI III	VII II	VIII I
May 15, 1911, to Aug. 16, 1918	s ±61.0	s ±46.0	s ±36.0	s ±24.0	s ±16.0	s ±4.0	s ∓4.0	s ∓16.0	s ∓26.0	s ∓41.0

The upper sign refers to Clamp East and lower sign to Clamp West. The center of the field is determined by the position of the movable right ascension threads when the micrometer reads $10^{R}.001$.

TABLE II.—*Corrections to the Preliminary Right Ascensions of Stars for Personality of Observers*

[These Corrections do not Apply to Observations of α Ursæ Minoris, λ Ursæ Minoris, and Groombridge 1119 when Settings were made on the Star with the Movable Threads]

δ	Wy.		An.		δ	Wy.		An.	
	Clamp East	Clamp West	Clamp East	Clamp West		Clamp East	Clamp West	Clamp East	Clamp West
°	s	s	s	s	°	s	s	s	s
−35	+0.020	−0.020	+0.015	−0.015	+ 40	−0.005	+0.017	−0.003	+0.012
30	.020	.020	.015	.015	45	.000	.021	− .001	.013
25	.020	.018	.015	.015	50	+ .005	.027	+ .002	.014
20	.019	.016	.013	.013	55	.010	.033	.005	.016
15	.015	.014	.009	.010	60	.018	.038	.012	.018
10	.012	.012	.006	.009	65	.03	.04	.02	.02
− 5	.009	.010	.005	.007	70	.04	.05	.03	.03
0	.006	.007	.003	.005	75	.04	.04	.05	.04
+ 5	+ .003	− .004	+ .001	− .002	80	+ .03	+ .02	.07	.07
10	.000	.000	.000	.000	85	.00	.00	+0.15	+0.18
15	− .003	+ .003	− .001	+ .003	95	− .16	+ .07	----	----
20	.006	.005	.002	.005	100	.14	.07	----	----
25	.008	.008	.003	.007	105	.12	.07	----	----
30	.008	.011	.003	.009	110	.11	.07	----	----
35	.007	.014	.004	.011	115	.10	.07	----	----
+40	−0.005	+0.017	−0.003	+0.012	+120	−0.09	+0.07	----	----

No corrections have been applied for the other observers.

TABLE III.—*Corrections to the Preliminary Right Ascensions of α Ursæ Minoris, λ Ursæ Minoris, and Groombridge 1119 for Personality of Observers when Settings were made on the Star with the Movable Threads*

δ	Hd.	Fn.	R.	Wy.	An.
°	s	s	s	s	s
+89	−0.30	−0.25	−0.35	−0.05	−0.65
+89 s. p	−0.30	−0.25	−0.35	−0.05	−0.65

TABLE IV.—*The Corrections to the Preliminary Right Ascensions for Clamp Difference*

[The signs are given for Clamp East; change the signs for Clamp West]

δ	Pos. I_1 and II_1 1909–10	Pos. II_1 1911–1913	Pos. I_2 1913–1917	Pos. II_2 1917–18	δ	Pos. I_1 and II_1 1909–10	Pos. II_1 1911–1913	Pos. I_2 1913–1917	Pos. II_2 1917–18
°	s	s	s	s	°	s	s	s	s
−35	+0.020	+0.021	+0.050	+0.039	+45	−0.019	−0.021	−0.065	−0.052
30	.019	.020	.046	.036	50	.021	.021	.070	.056
25	.018	.019	.043	.033	55	.024	.021	.073	.061
20	.017	.017	.037	.029	60	.023	.021	.074	.066
15	.015	.014	.031	.026	65	.02	.02	.08	.07
10	.012	.011	.024	.023	70	.02	.02	.08	.07
− 5	.009	.008	.017	.018	75	.01	.02	.08	.08
0	.005	.004	+ .008	+ .010	80	− .01	.02	.08	.08
+ 5	+ .001	+ .001	.000	.000	85	.00	− .02	− .05	.09
10	− .002	− .002	− .010	− .010	89	.00	.00	.00	− .08
15	.004	.006	.018	.020	89 s. p	.00	.00	.00	.00
20	.007	.011	.028	.028	85 s. p	.00	+ .03	.00	.00
25	.010	.014	.037	.034	80 s. p	.00	.02	.00	.00
30	.012	.017	.046	.040	75 s. p	− .01	.02	.00	.00
35	.014	.020	.054	.045	70 s. p	.01	.02	.00	.00
40	.017	.020	.060	.048	65 s. p	−0.01	.01	.00	.00
+45	−0.019	−0.021	−0.065	−0.052	60 s. p	----	+0.01	0.00	0.00

TABLE V.—*The Azimuths of the North and South Meridian Marks*

North Mark

Interval	Instrument	A_N	A'_N	No.	Interval	Instrument	A_N	A'_N	No.
		s	s				s	s	
1909					1913				
Feb. 6.3–Feb. 18.5	EI	−0.076	-----	17	Nov. 9.0–Nov. 24.8	WI	−0.013	−0.014	35
Feb. 20.3–Mar. 23.1	WI	− .005	-----	26	Nov. 24.8–Dec. 14.0	EI	− .056	− .056	23
Mar. 23.4–May 13.5	EI	− .040	-----	21	Dec. 14.0–Dec. 30.9	WI	+ .012	+ .010	20
May 14.3–May 23.7	WI	+ .046	-----	15					
Sept. 24.3–Oct. 22.5	WI	+ .014	-----	34	1914				
Oct. 4.3–Oct. 19.8	EI	− .040	-----	35	Dec. 30.9–Jan. 16.9	EI	− .045	− .042	20
Dec. 5.3–Dec. 23.8	EI	− .066	-----	37	Jan. 16.9–Feb. 2.8	WI	+ .041	+ .041	25
					Feb. 2.8–Feb. 12.9	EI	− .068	− .062	13
1910					Feb. 12.9–Feb. 23.9	WI	+ .048	+ .051	16
Dec. 29.3–Feb. 18.4	WI	− .025	-----	33	Feb. 23.9–Mar. 9.0	EI	− .050	− .053	11
Sept. 7.2–Oct. 10.6	EI	− .052	-----	34	Feb. 27.9–Mar. 16.9	WI	+ .068	+ .074	16
Sept. 22.3–Oct. 4.8	WI	+ .006	-----	28	Mar. 16.9–Mar. 29.9	EI	− .038	− .040	18
Oct. 11.3–Oct. 23.8	EII	− .047	-----	28	Mar. 29.9–Apr. 10.9	WI	+ .057	+ .057	15
Oct. 24.3–Nov. 26.4	WII	+ .029	-----	22	Apr. 10.9–Apr. 28.9	EI	−0.026	−0.026	13
					Apr. 28.9–May 22.1	WI	+ .072	+ .072	28
1911					May 22.1–June 18.9	EI	− .010	− .011	31
May 15.4–July 1.9	WII	+ .008	+0.010	25	June 18.9–July 17.9	WI	+ .089	+ .089	19
May 22.8–May 28.0	EII	− .005	− .021	7	July 17.9–Aug. 9.0	EI	− .032	− .033	19
June 9.8–June 26.8	EII	− .037	− .028	16	Aug. 9.0–Sept. 6.1	WI	+ .053	+ .054	33
July 1.9–July 25.8	EII	− .050	− .050	12	Sept. 6.1–Sept. 26.9	EI	− .071	− .071	41
July 9.7–Aug. 7.9	WII	+ .002	− .002	11	Sept. 26.9–Oct. 13.1	WI	+ .059	+ .061	43
Aug. 7.9–Aug. 22.7	EII	− .062	− .060	13	Oct. 13.1–Nov. 1.0	EI	− .095	− .098	40
Aug. 22.7–Sept. 23.9	WII	+ .006	− .002	15	Nov. 1.0–Nov. 15.9	WI	+ .048	+ .052	42
Sept. 23.9–Oct. 7.1	EII	− .034	− .033	11	Nov. 15.9–Nov. 29.0	EI	− .109	− .110	34
Oct. 7.1–Oct. 27.9	WII	+ .016	+ .015	30	Nov. 29.0–Dec. 29.0	WI	+ .095	+ .101	40
Oct. 27.9–Nov. 23.9	EII	− .040	− .041	39					
Nov. 23.9–Dec. 8.9	WII	+ .027	+ .027	20	1915				
					Dec. 29.0–Jan. 9.9	EI	− .135	− .129	32
1912					Jan. 9.9–Jan. 18.9	WI	+ .099	+ .098	14
Dec. 8.9–Jan. 10.9	EII	− .030	− .030	27	Jan. 18.9–Jan. 29.8	EI	− .099	− .094	16
Jan. 10.9–Feb. 5.9	WII	+ .039	+ .041	17	Mar. 15.0–Apr. 10.9	EI	− .055	− .051	35
Jan. 22.5–Feb. 18.0	EII	− .025	− .024	33	Apr. 10.9–Apr. 25.3	WI	+ .124	+ .124	14
Feb. 18.0–Mar. 7.9	WII	+ .038	+ .040	16	Apr. 25.3–May 11.9	EI	.000	.000	13
Mar. 7.9–Mar. 24.0	EII	+ .012	+ .007	15	May 11.9–May 16.0	WI	+ .118	+ .118	4
Mar. 24.0–Apr. 24.8	WII	+ .003	+ .003	26	May 16.0–May 19.9	EI	+ .005	+ .005	4
Apr. 3.9–May 3.9	EII	− .009	− .008	14	May 19.9–June 6.0	WI	+ .116	+ .116	12
May 3.9–June 3.9	WII	+ .011	+ .012	17	June 6.0–June 10.8	EI	− .009	− .009	8
May 16.8–June 10.9	EII	− .009	− .010	16	June 10.8–June 20.0	WI	+ .106	+ .104	7
July 25.2–Aug. 2.0	WII	+ .022	+ .021	5	June 20.0–June 29.9	EI	− .024	− .022	12
Aug. 2.0–Aug. 13.9	EII	− .036	− .032	8	June 29.9–July 18.8	WI	+ .112	+ .112	17
Aug. 13.9–Sept. 3.1	WII	− .020	− .020	18	July 18.8–Aug. 16.9	EI	− .012	− .009	23
Sept. 3.1–Sept. 11.9	EII	− .031	− .033	9	Aug. 16.9–Sept. 10.8	WI	+ .110	+ .109	25
Sept. 11.9–Sept. 22.0	WII	− .031	− .033	6	Sept. 10.8–Oct. 1.9	EI	− .015	− .016	37
Sept. 22.0–Oct. 5.9	EII	− .027	− .026	21	Oct. 1.9–Oct. 27.8	WI	+ .105	+ .105	57
Oct. 5.9–Oct. 19.0	WII	− .024	− .027	31	Oct. 27.8–Nov. 8.9	EI	− .047	− .046	36
Oct. 19.0–Oct. 31.9	EII	− .060	− .060	26	Nov. 8.9–Nov. 19.0	WI	+ .103	+ .104	31
Oct. 31.9–Nov. 10.0	WII	+ .013	+ .012	16	Nov. 19.0–Dec. 5.9	EI	− .064	− .062	39
Nov. 10.0–Nov. 24.0	EII	− .057	− .056	32	Dec. 5.9–Dec. 28.0	WI	+ .089	+ .088	50
Nov. 24.0–Dec. 10.9	WII	+ .012	+ .012	26					
Dec. 10.9–Dec. 21.9	EII	− .043	− .043	37	1916				
					Dec. 28.0–Jan. 18.2	EI	− .070	− .069	21
1913					Jan. 18.2–Feb. 7.8	EI	− .060	− .052	21
Dec. 21.9–Jan. 15.9	WII	+ .017	+ .017	45	Feb. 7.8–Mar. 16.8	WI	+ .103	+ .104	64
Jan. 15.9–Jan. 28.9	EII	− .032	− .032	19	May 29.0–June 15.0	EI	+ .016	+ .015	10
Jan. 28.9–Feb. 16.0	WII	+ .024	+ .025	46	June 15.0–July 5.0	WI	+ .118	+ .113	14
Feb. 16.0–Mar. 12.9	EII	− .040	− .035	43	July 5.0–July 22.0	EI	+ .012	+ .014	13
Mar. 12.9–Mar. 23.9	WII	+ .047	+ .047	26	July 22.0–Aug. 5.0	WI	+ .095	+ .092	8
Mar. 23.9–Apr. 3.9	EII	− .010	− .009	22	Aug. 5.0–Aug. 23.0	EI	+ .006	+ .003	12
Apr. 3.9–Apr. 20.8	WII	+ .060	+ .059	15	Aug. 23.0–Sept. 13.0	WI	+ .114	+ .111	18
Apr. 20.8–May 10.9	EII	− .020	− .022	21	Sept. 13.0–Sept. 27.0	EI	− .004	− .003	29
May 10.9–June 10.9	WII	+ .049	+ .048	26	Sept. 27.0–Oct. 25.0	WI	+ .118	+ .120	46
June 10.9–July 6.0	EII	− .013	− .014	21	Oct. 25.0–Nov. 11.0	EI	− .004	− .005	40
July 6.0–July 14.5	WII	+ .030	+ .031	8	Nov. 11.0–Nov. 28.9	WI	+ .103	+ .106	19
Nov. 3.3–Nov. 9.0	EI	− .072	− .075	16	Nov. 28.9–Dec. 18.0	EI	− .025	− .027	26

TABLE V.—*The Azimuths of the North and South Meridian Marks*—Continued

North Mark

Interval	Instrument	A_N	A'_N	No.	Interval	Instrument	A_N	A'_N	No.
1917		s	s		1917		s	s	
Dec. 18.0–Jan. 4.1	WI	+0.106	+0.106	20	Oct. 6.0–Nov. 9.2	EII	−0.009	−0.003	19
Jan. 4.1–Jan. 19.4	EI	−.024	−.028	13	Nov. 9.2–Dec. 13.0	WII	+.137	+.141	17
Feb. 22.8–Mar. 10.0	WI	+.116	+.119	13					
Mar. 10.0–Mar. 22.9	EI	−.014	−.015	24	1918				
Mar. 22.9–Apr. 18.0	WI	+.116	+.116	21	Dec. 13.0–Jan. 19.1	EII	−.035	−.032	18
Apr. 18.0–May 5.0	EI	−.009	−.011	9	Jan. 19.1–Feb. 16.2	WII	+.152	+.150	18
May 5.0–June 4.4	WI	+.122	+.122	12	Feb. 16.2–Mar. 8.9	EII	−.025	−.030	24
June 18.8–June 27.0	WII	+.102	+.102	8	Mar. 8.9–Mar. 30.0	WII	+.127	+.126	23
June 27.0–Aug. 1.2	EII	+.008	+.008	12	Mar. 30.0–May 12.9	EII	+.016	+.021	26
Aug. 1.2–Aug. 22.0	WII	+.108	+.112	15	May 12.9–July 2.8	WII	+.103	+.103	15
Aug. 22.0–Sept. 19.0	EII	+.004	+.004	36	July 2.8–July 28.0	EII	−.002	−.002	16
Sept. 19.0–Oct. 6.0	WII	+.111	+.113	16	July 28.0–Aug. 16.3	WII	+.100	+.100	14

South Mark

Date	Instrument	A_S	A'_S	No.	Date	Instrument	A_S	A'_S	No.
1909		s	s		1912		s	s	
Feb. 13.3	EI	+1.286	-----	17	Mar. 16.4	EII	+1.304	+1.300	15
Mar. 4.0	WI	1.344	-----	16	30.5	WII	1.274	1.278	15
19.5	WI	1.336	-----	10	Apr. 8.2	EII	1.282	1.277	5
29.9	EI	1.304	-----	7	9.0	WII	1.240	1.239	8
May 9.1	EI	1.322	-----	14	23.5	WII	1.234	1.219	3
17.8	WI	1.384	-----	15	30.0	EII	1.276	1.276	9
Sept. 29.4	WI	1.161	-----	34	May 8.6	WII	1.278	1.278	6
Oct. 9.3	EI	1.068	-----	35	18.8	EII	1.260	1.270	5
Dec. 15.7	EI	1.155	-----	37	21.4	WII	1.288	1.294	3
					26.0	EII	1.254	1.248	4
1910					30.8	WII	1.226	1.225	8
Jan. 8.4	WI	1.246	-----	33	June 8.0	EII	1.237	1.231	7
Sept. 17.7	EI	1.045	-----	34	July 28.5	WII	1.165	1.155	6
27.8	WI	1.135	-----	28	Aug. 8.5	EII	1.148	1.151	8
Oct. 16.2	EII	1.067	-----	28	23.5	WII	1.100	1.101	18
Nov. 1.4	WII	1.151	-----	22	Sept. 8.5	EII	1.098	1.098	9
					15.5	WII	1.056	1.060	6
1911					Oct. 1.5	EII	1.097	1.100	24
May 19.2	WII	1.299	+1.300	7	11.5	WII	1.092	1.093	31
24.8	EII	1.302	1.280	7	26.5	EII	1.062	1.064	26
June 3.3	WII	1.258	1.254	10	Nov. 4.5	WII	1.131	1.130	16
17.4	EII	1.198	1.196	16	16.5	EII	1.089	1.090	32
29.6	WII	1.168	1.168	8	Dec. 4.5	WII	1.174	1.174	26
July 5.8	EII	1.138	1.137	5	16.5	EII	1.160	1.161	37
12.0	WII	1.116	1.111	4					
20.6	EII	1.055	1.055	7	1913				
30.4	WII	1.024	1.026	7	Jan. 4.5	WII	1.230	1.226	45
Aug. 16.0	EII	0.950	0.951	13	22.5	EII	1.222	1.223	20
Sept. 8.6	WII	1.010	1.009	15	Feb. 7.5	WII	1.274	1.276	47
Oct. 3.0	EII	0.983	0.983	11	25.5	EII	1.229	1.235	43
20.0	WII	1.009	1.008	30	Mar. 19.5	WII	1.312	1.313	26
Nov. 13.8	EII	1.032	1.030	39	30.5	EII	1.250	1.254	23
Dec. 3.5	WII	1.145	1.146	20	Apr. 13.5	WII	1.307	1.308	17
27.5	EII	1.162	1.158	27	May 1.5	EII	1.229	1.229	21
					28.5	WII	1.272	1.261	26
1912					June 23.5	EII	1.183	1.182	21
Jan. 17.8	WII	1.227	1.232	12	July 9.5	WII	1.150	1.150	8
25.0	EII	1.214	1.211	12	Nov. 5.5	EI	1.026	1.021	16
Feb. 3.6	WII	1.285	1.289	5	18.5	WI	1.098	1.098	35
10.2	EII	1.240	1.241	21	Dec. 8.5	EI	1.101	1.101	23
26.1	WII	+1.290	+1.292	16	21.5	WI	+1.168	+1.165	20

TABLE V.—*The Azimuths of the North and South Meridian Marks*—Continued

South Mark

Date	Instrument	A_S	A'_S	No.
		s	s	
1914				
Jan. 11. 5	EI	+1. 182	+1. 186	20
26. 5	WI	1. 279	1. 278	25
Feb. 8. 5	EI	1. 184	1. 181	13
17. 5	WI	1. 300	1. 302	16
Mar. 1. 5	EI	1. 220	1. 222	11
10. 5	WI	1. 320	1. 328	16
22. 5	EI	1. 233	1. 235	18
Apr. 5. 5	WI	1. 299	1. 299	15
21. 5	EI	1. 243	1. 241	13
May 11. 5	WI	1. 306	1. 303	28
June 4. 5	EI	1. 181	1. 181	31
July 2. 4	WI	1. 216	1. 221	19
29. 2	EI	1. 056	1. 055	19
Aug. 24. 8	WI	1. 077	1. 078	33
Sept. 18. 2	EI	0. 943	0. 944	41
Oct. 4. 0	WI	1. 050	1. 053	43
25. 6	EI	0. 919	0. 915	40
Nov. 7. 2	WI	1. 052	1. 054	42
21. 7	EI	0. 947	0. 946	34
Dec. 18. 4	WI	1. 165	1. 164	40
1915				
Jan. 6. 0	EI	1. 020	1. 023	32
14. 0	WI	1. 297	1. 297	14
25. 0	EI	1. 172	1. 176	16
Apr. 4. 8	EI	1. 193	1. 194	35
17. 2	WI	1. 348	1. 348	14
May 4. 0	EI	1. 257	1. 256	13
14. 2	WI	1. 318	1. 315	4
18. 4	EI	1. 213	1. 213	4
28. 4	WI	1. 330	1. 330	12
June 8. 5	EI	1. 207	1. 207	8
15. 4	WI	1. 316	1. 314	7
25. 4	EI	1. 154	1. 154	12
July 9. 8	WI	1. 268	1. 263	17
Aug. 2. 5	EI	1. 136	1. 138	23
30. 4	WI	1. 221	1. 219	25
Sept. 22. 8	EI	1. 097	1. 092	37
Oct. 14. 4	WI	1. 216	1. 215	57
Nov. 2. 5	EI	1. 105	1. 105	36
14. 1	WI	1. 226	1. 229	31
28. 6	EI	1. 120	1. 122	39
Dec. 14. 0	WI	+1. 245	+1. 243	50
1916				
Jan. 9. 5	EI	+1. 160	+1. 165	21
26. 7	EI	1. 179	1. 186	21
Feb. 18. 3	WI	1. 328	1. 326	24
Mar. 9. 3	WI	+1. 342	+1. 342	40
Mark lens adjusted				
June 6. 8	EI	−0. 032	−0. 031	10
24. 0	WI	+ . 010	+ . 007	14
July 13. 1	EI	− . 100	− . 096	14
Aug. 2. 0	WI	− . 049	− . 046	8
16. 0	EI	− . 141	− . 143	12
Sept. 4. 8	WI	− . 097	− . 098	18
22. 2	EI	− . 212	− . 211	29
Oct. 13. 3	WI	− . 145	− . 140	46
31. 7	EI	− . 239	− . 237	40
Nov. 23. 2	WI	− . 110	− . 108	19
Dec. 9. 7	EI	− . 181	− . 184	26
27. 9	WI	− . 061	− . 062	20
1917				
Jan. 14. 0	EI	− . 139	− . 147	13
Mar. 5. 9	WI	+ . 038	+ . 038	13
18. 8	EI	− . 057	− . 066	24
Apr. 5. 2	WI	+ . 023	+ . 022	21
26. 8	EI	− . 056	− . 060	9
May 18. 5	WI	+ . 036	+ . 036	12
June 21. 8	WII	− . 014	− . 014	8
July 17. 0	EII	− . 112	− . 112	12
Aug. 13. 8	WII	− . 069	− . 066	15
Sept. 11. 7	EII	− . 192	− . 190	36
28. 2	WII	− . 105	− . 104	16
Oct. 25. 7	EII	− . 179	− . 175	19
Nov. 25. 2	WII	+ . 008	+ . 009	17
Dec. 31. 2	EII	− . 119	− . 123	18
1918				
Feb. 9. 3	WII	+ . 149	+ . 143	18
Mar. 1. 5	EII	+ . 020	+ . 011	24
20. 1	WII	+ . 121	+ . 122	23
Apr. 20. 5	EII	− . 014	− . 012	25
June 18. 0	WII	− . 018	− . 018	15
July 17. 4	EII	− . 156	− . 158	16
Aug. 12. 3	WII	− . 128	− . 128	14

TABLE VI.—*The Adopted Corrections and Rates of the Standard Sidereal Clock*

The standard sidereal clock for various periods has been as follows:

	Riefler No.
1909, February 6.3 to 1909, June 14.0	70
1909, June 14.0 to 1909, August 26.0	151
1909, August 26.0 to 1910, March 9.5	70
1910, March 9.5 to 1911, April 24.0	151
1911, April 24.0 to 1914, April 26.8	60
1914, April 26.8 to 1915, March 27.0	151
1915, March 27.0 to 1916, August 5.2	60
1916, August 5.2 to 1916, November 8.0	70
1916, November 8.0 to 1918, August 16.3	60

[Clock corrections printed in italics are based on daylight observations]

Date	Observer	Instrument	No. Stars	Sidereal Time	Clock Correction	Hourly Rate
				h	s	s
Riefler No. 70						
1909						
Feb. 6.4	Hd.	EI	6	7.02	+ 2.039	+0.0042
8.4	Hd.		9	7.60	+ 2.245	+0.0044
10.4	Hd.		3	6.63	+ 2.455	+0.0043
11.1	*Hd.*		*6*	*0.95*	*+ 2.567*	*+0.0042*
11.4	U.		8	7.72	+ 2.558	+0.0042
16.4	U.		8	7.62	+ 2.983	+0.0036
17.4	Hd.		9	7.60	+ 3.092	+0.0034
18.1	*Hd.*		*6*	*0.95*	*+ 3.148*	*+0.0033*
18.4	U.	EI	8	7.62	+ 3.168	+0.0033
Clock dropped 14[a]						
20.4	Hd.	WI	9	7.60	+17.398	+0.0030
25.4	U.		8	7.38	+17.711	+0.0024
28.4	U.		9	7.60	+17.824	+0.0022
Mar. *5.1*	*U.*		*3*	*1.63*	*+18.077*	*+0.0019*
5.4	U.		6	7.60	+18.122	+0.0019
7.3	U.		7	7.19	+18.165	+0.0019
9.3	U.		6	7.02	+18.276	+0.0018
10.3	Hd.		8	7.38	+18.317	+0.0018
11.3	Hd.		9	7.60	+18.383	+0.0018
15.5	Hd.		12	11.68	+18.555	+0.0016
17.5	Hd.		12	11.68	+18.616	+0.0016
18.5	U.		8	11.40	+18.649	+0.0015
20.5	Hd.		12	11.68	+18.739	+0.0014
21.5	U.		12	11.68	+18.727	+0.0014
22.5	Hd.		12	11.68	+18.789	+0.0013
23.1	*Hd.*	WI	*3*	*1.63*	*+18.847*	*+0.0012*
23.5	U.	EI	12	11.68	+18.923	+0.0012
26.5	U.		12	11.68	+19.025	+0.0010
28.5	U.		12	11.68	+19.066	+0.0006
30.5	U.		12	11.68	+19.067	+0.0007
31.5	Hd.		12	11.68	+19.146	+0.0008
Apr. 3.4	Hd.		12	11.68	+19.235	+0.0012
May 5.4	Hd.		12	12.41	+21.171	+0.0031
6.4	U.		10	12.60	+21.216	+0.0031
9.4	U.		12	12.44	+21.425	+0.0032
11.4	U.		13	12.55	+21.557	+0.0033
12.4	Hd.		13	12.55	+21.680	+0.0033
13.4	Hd.	EI	7	13.20	+21.784	+0.0032
14.4	U.	WI	12	12.51	+21.759	+0.0031
15.4	Hd.		13	12.55	+21.823	+0.0031
16.4	U.		13	12.55	+21.896	+0.0030
17.4	Hd.		12	12.59	+22.025	+0.0030
17.9	*Hd.*		*3*	*1.63*	*+22.073*	*+0.0030*
18.4	U.		13	12.55	+22.069	+0.0029
23.4	Hd.	WI	13	12.55	+22.390	+0.0025
Sept. 24.5	U.	WI	19	0.97	+ 9.629	+0.0056
25.5	Hd.		25	0.91	+ 9.778	+0.0057
28.5	Hd.		26	0.65	+10.235	+0.0060
29.5	U.		23	0.64	+10.349	+0.0061
30.5	T.		26	0.65	+10.450	+0.0061
Oct. 1.5	Hd.		24	1.15	+10.659	+0.0061
2.5	T.		22	23.40	+10.764	+0.0062
3.3	U.	WI	8	19.05	+10.911	+0.0062

Date	Observer	Instrument	No. Stars	Sidereal Time	Clock Correction	Hourly Rate
				h	s	s
Riefler No. 70—Continued						
1909						
Oct. 4.5	Hd.	EI	25	0.91	+11.166	+0.0062
5.5	T.		22	1.36	+11.216	+0.0063
6.5	U.		24	0.63	+11.372	+0.0064
7.5	Hd.		26	0.65	+11.568	+0.0065
8.5	T.		25	0.91	+11.664	+0.0067
9.4	U.		15	21.81	+11.830	+0.0068
12.5	U.		18	2.79	+12.425	+0.0072
13.4	Hd.		10	0.07	+12.640	+0.0073
16.5	T.		18	3.14	+13.135	+0.0074
17.4	Hd.		3	23.27	+13.330	+0.0074
19.6	Hd.	EI	18	3.14	+13.750	+0.0072
20.4	T.	WI	10	0.07	+13.799	+0.0071
22.4	T.	WI	9	0.00	+14.123	+0.0070
Dec. 5.5	U.	EI	23	5.52	+22.226	+0.0067
6.4	Hd.		17	3.26	+22.436	+0.0068
8.4	U.		15	2.70	+22.684	+0.0078
14.4	Hd.		4	2.82	+24.093	+0.0086
15.3	Hd.		10	0.56	+24.272	+0.0080
16.6	U.		24	6.85	+24.424	+0.0074
18.6	Hd.		25	6.75	+24.806	+0.0072
20.5	Hd.		27	6.27	+25.186	+0.0073
21.4	U.		18	3.70	+25.276	+0.0074
23.6	Hd.	EI	18	9.44	+25.727	+0.0076
30.3	Hd.	WI	12	1.53	+26.894	+0.0082
1910						
Jan. 4.3	Hd.		14	2.27	+27.907	+0.0088
7.5	T.		26	6.07	+28.558	+0.0090
8.5	U.		27	6.27	+28.733	+0.0091
9.5	Hd.		27	6.27	+29.026	+0.0091
10.5	T.		27	6.27	+29.209	+0.0091
15.2	T.		8	23.98	+30.243	+0.0092
15.5	Hd.		9	6.96	+30.334	+0.0092
16.5	U.	WI	21	6.95	+30.484	+0.0093
Riefler No. 151						
Sept. 7.6[1]	T.	EI	9	2.80	−40.084	−0.0290
9.6[1]	Hd.		9	2.80	−41.452	−0.0290
12.6[3]	T.		5	2.00	−43.594	−0.0291
15.6[3]	Hd.		5	2.86	−45.674	−0.0292
16.6[4]	T.		7	2.53	−46.409	−0.0293
17.6[4]	Hd.		9	2.80	−47.100	−0.0293
20.6[2]	Hd.		8	2.69	−49.185	−0.0294
21.6[2]	T.	EI	9	2.80	−49.894	−0.0294
22.6[1]	Hd.	WI	9	2.80	−50.670	−0.0295
25.6[3]	T.		8	2.68	−52.789	−0.0296
26.6[3]	Hd.		8	3.11	−53.465	−0.0296
27.6[1]	T.		9	2.80	−54.240	−0.0296
28.6[2]	Hd.		9	2.80	−54.950	−0.0297
Oct. 1.6[2]	T.		9	2.80	−57.108	−0.0298
2.6[4]	Hd.		9	2.80	−57.781	−0.0298
4.6[4]	T.	WI	7	2.46	−59.203	−0.0299
5.6[3]	Hd.	EI	8	3.11	−59.841	−0.0299
10.6[4]	T.	EI	8	3.11	−63.520	−0.0301

[1] Direct, Prism A. [2] Direct, Prism B. [3] Reflected, Prism A. [4] Reflected, Prism B.

All observations from Feb. 6.4, 1909, to Jan. 16.5, 1910, were made without a reversing prism.

TABLE VI.—*The Adopted Corrections and Rates of the Standard Sidereal Clock*—Continued

Date	Observer	Instrument	No. Stars	Sidereal Time	Clock Correction	Hourly Rate
				h	s	s
Riefler No. 151—Continued						
1910						
Oct. 11. 5 [3]	Hd.	EII	9	2. 80	−64. 183	−0. 0301
12. 5 [1]	T.		6	2. 32	−64. 912	−0. 0301
14. 5 [4]	Hd.		9	2. 80	−66. 399	−0. 0302
15. 5 [4]	T.		9	2. 80	−67. 100	−0. 0302
16. 5 [1]	Hd.		9	2. 80	−67. 778	−0. 0303
17. 5 [3]	T.		9	2. 80	−68. 549	−0. 0303
18. 5 [2]	Hd.		7	2. 51	−69. 300	−0. 0303
20. 5 [2]	T.		9	2. 80	−70. 737	−0. 0304
22. 5 [1]	T.	EII	8	3. 11	−72. 190	−0. 0305
24. 5 [3]	Hd.	WII	8	2. 99	−73. 605	−0. 0274
25. 5 [2]	T.		9	2. 80	−74. 308	−0. 0274
26. 5 [4]	Hd.	WII	9	2. 80	−74. 914	−0. 0274
Clock set back one minute						
31. 5 [1]	Hd.	WII	9	2. 80	−18. 213	−0. 0273
Nov. 1. 5 [2]	Hd.		9	2. 80	−18. 926	−0. 0273
6. 5 [4]	T.		9	2. 80	−22. 163	−0. 0272
8. 5 [1]	T.		9	2. 80	−23. 501	−0. 0272
20. 4 [3]	T.		8	2. 72	−31. 175	−0. 0270
26. 4 [2]	Hd.	WII	8	2. 68	−35. 128	−0. 0269
Riefler No. 60						
1911						
May 15. 4	Fn.	WII	6	13. 20	+13. 410	−0. 0097
17. 4	T.		4	12. 88	+12. 870	−0. 0097
18. 4	Fn.		2	12. 60	+12. 664	−0. 0097
18. 8	*Hd.*		*2*	*23. 55*	*+12. 549*	*−0. 0098*
19. 4	Hd.		3	13. 07	+12. 449	−0. 0098
19. 8	*T.*		*3*	*23. 23*	*+12. 334*	*−0. 0098*
20. 4	T.		7	13. 63	+12. 190	−0. 0098
21. 8	*Fn.*		*2*	*22. 80*	*+11. 732*	*−0. 0098*
22. 4	Fn.	WII	8	13. 59	+11. 663	−0. 0099
22. 8	*Hd.*	EII	*6*	*23. 78*	*+11. 564*	*−0. 0099*
23. 4	Hd.		7	13. 77	+11. 475	−0. 0099
24. 4	T.		7	13. 67	+11. 277	−0. 0101
24. 8	*Fn.*		*3*	*0. 07*	*+11. 147*	*−0. 0101*
25. 4	Fn.		8	13. 59	+10. 988	−0. 0101
25. 8	*Hd.*		*6*	*23. 27*	*+10. 848*	*−0. 0101*
26. 4	Hd.		8	13. 90	+10. 752	−0. 0102
26. 8	*T.*		*3*	*23. 80*	*+10. 643*	*−0. 0102*
27. 4	T.	EII	8	13. 90	+10. 507	−0. 0103
28. 8	*Fn.*	WII	*3*	*23. 23*	*+10. 092*	*−0. 0104*
29. 4	Fn.		7	14. 04	+ 9. 938	−0. 0105
31. 8	*Fn.*		*4*	*23. 85*	*+ 9. 324*	*−0. 0107*
June 1. 4	Fn.		8	13. 90	+ 9. 206	−0. 0109
1. 8	*Hd.*		*4*	*0. 98*	*+ 9. 084*	*−0. 0109*
2. 4	Hd.		7	14. 11	+ 8. 965	−0. 0110
7. 3	T.		5	13. 86	+ 7. 589	−0. 0115
8. 4	Fn.		8	14. 25	+ 7. 273	−0. 0116
8. 8	*Hd.*		*4*	*1. 40*	*+ 7. 222*	*−0. 0116*
9. 4	Hd.	WII	8	14. 25	+ 6. 997	−0. 0117
9. 8	*T.*	EII	*2*	*1. 35*	*+ 6. 890*	*−0. 0117*
11. 4	R.		4	14. 32	+ 6. 392	−0. 0119
14. 4	T.		6	14. 00	+ 5. 572	−0. 0121
14. 8	*Fn.*		*4*	*1. 12*	*+ 5. 418*	*−0. 0121*
15. 4	Fn.		8	14. 25	+ 5. 271	−0. 0122
16. 4	Hd.		6	14. 30	+ 4. 963	−0. 0122
16. 8	*T.*		*4*	*1. 80*	*+ 4. 880*	*−0. 0122*
18. 5	R.		8	16. 75	+ 4. 453	−0. 0122
19. 9	*Hd.*		*6*	*2. 55*	*+ 3. 971*	*−0. 0122*
20. 4	Hd.		8	14. 25	+ 3. 809	−0. 0123
20. 9	*T.*		*5*	*3. 36*	*+ 3. 708*	*−0. 0123*
21. 4	T.		8	15. 50	+ 3. 485	−0. 0123
21. 8	*Fn.*		*8*	*1. 54*	*+ 3. 363*	*−0. 0123*
22. 4	Fn.	EII	7	15. 54	+ 3. 183	−0. 0123

Date	Observer	Instrument	No. Stars	Sidereal Time	Clock Correction	Hourly Rate
				h	s	s
Riefler No. 60—Continued						
1911						
June 23. 4	Hd.	EII	6	16. 33	+ 2. 872	−0. 0124
23. 9	*T.*		*2*	*4. 85*	*+ 2. 666*	*−0. 0124*
26. 4	Fn.	EII	6	16. 18	+ 1. 936	−0. 0125
26. 9	*Hd.*	WII	*3*	*5. 00*	*+ 1. 749*	*−0. 0125*
27. 4	Hd.		8	15. 50	+ 1. 627	−0. 0126
27. 8	*T.*		*6*	*2. 82*	*+ 1. 468*	*−0. 0126*
28. 4	T.		8	15. 50	+ 1. 323	−0. 0127
28. 9	*Fn.*		*4*	*3. 45*	*+ 1. 129*	*−0. 0127*
29. 4	Fn.		8	15. 91	+ 0. 952	−0. 0127
29. 9	*Hd.*		*8*	*3. 15*	*+ 0. 880*	*−0. 0127*
30. 4	Hd.		8	15. 80	+ 0. 702	−0. 0128
30. 8	*T.*		*5*	*2. 04*	*+ 0. 579*	*−0. 0128*
July 1. 4	R.	WII	9	16. 42	+ 0. 359	−0. 0129
3. 4	Fn.	EII	8	15. 91	− 0. 267	−0. 0130
4. 9	*R.*		*7*	*3. 36*	*− 0. 726*	*−0. 0132*
5. 4	R.		8	15. 91	− 0. 845	−0. 0132
5. 8	*Fn.*		*7*	*3. 34*	*− 0. 975*	*−0. 0132*
6. 4	Fn.		7	16. 66	− 1. 173	−0. 0133
6. 8	*Hd.*		*4*	*2. 78*	*− 1. 346*	*−0. 0134*
9. 4	R.	EII	7	16. 14	− 2. 134	−0. 0136
9. 9	*Fn.*	WII	*4*	*5. 20*	*− 2. 439*	*−0. 0136*
10. 4	Fn.		8	16. 66	− 2. 577	−0. 0137
10. 8	*Hd.*		*7*	*2. 93*	*− 2. 679*	*−0. 0137*
12. 4	R.		8	16. 12	− 3. 198	−0. 0139
12. 8	*Fn.*		*5*	*2. 34*	*− 3. 324*	*−0. 0140*
14. 4	Hd.		8	16. 12	− 3. 873	−0. 0142
15. 4	R.	WII	8	16. 12	− 4. 209	−0. 0143
17. 4	Fn.	EII	8	16. 62	− 4. 930	−0. 0146
17. 8	*Hd.*		*4*	*2. 22*	*− 5. 071*	*−0. 0146*
18. 4	Hd.		8	18. 25	− 5. 341	−0. 0147
18. 8	*R.*		*6*	*2. 28*	*− 5. 440*	*−0. 0148*
19. 4	R.		7	16. 69	− 5. 642	−0. 0149
20. 4	Fn.		7	17. 20	− 6. 022	−0. 0150
20. 9	*Hd.*		*3*	*5. 00*	*− 6. 206*	*−0. 0151*
21. 9	*R.*		*5*	*5. 46*	*− 6. 567*	*−0. 0151*
22. 4	R.		8	17. 26	− 6. 734	−0. 0152
23. 9	*Fn.*		*3*	*5. 43*	*− 7. 276*	*−0. 0154*
24. 4	Fn.		8	17. 70	− 7. 461	−0. 0155
24. 8	*Hd.*		*8*	*3. 15*	*− 7. 660*	*−0. 0156*
25. 4	Hd.	EII	6	17. 30	− 7. 878	−0. 0156
25. 9	*R.*	WII	*5*	*5. 46*	*− 8. 109*	*−0. 0157*
26. 4	R.		6	18. 60	− 8. 280	−0. 0157
26. 8	*Fn.*		*9*	*3. 44*	*− 8. 412*	*−0. 0158*
27. 4	Fn.		8	17. 80	− 8. 650	−0. 0158
27. 9	*Hd.*		*5*	*5. 26*	*− 8. 822*	*−0. 0159*
28. 4	Hd.		8	18. 48	− 8. 992	−0. 0159
28. 8	*R.*		*8*	*2. 91*	*− 9. 175*	*−0. 0160*
29. 4	R.		4	17. 68	− 9. 395	−0. 0160
30. 8	*Fn.*		*6*	*3. 52*	*− 9. 938*	*−0. 0161*
31. 4	Fn.		7	18. 16	−10. 160	−0. 0161
31. 8	*Hd.*		*4*	*4. 80*	*−10. 293*	*−0. 0161*
Aug. 1. 3	Hd.		8	18. 75	−10. 529	−0. 0161
1. 8	*R.*		*6*	*3. 35*	*−10. 654*	*−0. 0161*
6. 4	R.		8	18. 65	−12. 497	−0. 0162
6. 9	*Fn.*		*3*	*7. 87*	*−12. 712*	*−0. 0161*
7. 4	Fn.	WII	8	19. 40	−12. 883	−0. 0161
8. 4	R.	EII	8	18. 18	−13. 220	−0. 0161
9. 4	Fn.		8	18. 76	−13. 650	−0. 0160
9. 8	*R.*		*8*	*5. 15*	*−13. 829*	*−0. 0160*
10. 4	R.		10	19. 91	−14. 028	−0. 0160
10. 8	*Fn.*		*7*	*5. 39*	*−14. 176*	*−0. 0160*
15. 4	R.		9	19. 98	−15. 985	−0. 0159
15. 8	*Fn.*		*8*	*5. 22*	*−16. 108*	*−0. 0159*
16. 4	Fn.		9	19. 24	−16. 315	−0. 0159
17. 4	R.	EII	9	19. 24	−16. 728	−0. 0159

[1] Direct, Prism A. [2] Direct, Prism B. [3] Reflected, Prism A. [4] Reflected, Prism B.

TABLE VI.—*The Adopted Corrections and Rates of the Standard Sidereal Clock*—Continued

Date	Observer	Instrument	No. Stars	Sidereal Time	Clock Correction	Hourly Rate
				h	s	s
Riefler No. 60—Continued						
1911						
Aug. 18.4	Fn.	EII	9	19.24	−17.035	−0.0159
18.8	*R.*		*9*	*6.22*	*−17.262*	*−0.0159*
19.4	R.		5	19.12	−17.472	−0.0159
20.8	*Fn.*		*7*	*5.36*	*−17.949*	*−0.0160*
21.4	Fn.		9	19.24	−18.187	−0.0160
21.8	*R.*		*7*	*5.53*	*−18.404*	*−0.0160*
22.4	R.	EII	9	19.24	−18.590	−0.0161
22.8	*Fn.*	WII	*4*	*5.20*	*−18.803*	*−0.0162*
23.9	*R.*		*3*	*6.67*	*−19.203*	*−0.0163*
28.9	*R.*		*2*	*6.75*	*−21.110*	*−0.0164*
Sept. 1.4	Fn.		10	20.36	−22.541	−0.0166
1.8	*R.*		*5*	*6.10*	*−22.693*	*−0.0167*
2.4	R.		10	20.33	−22.911	−0.0167
6.4	R.		9	21.23	−24.579	−0.0169
6.8	*Fn.*		*5*	*5.90*	*−24.661*	*−0.0169*
7.4	Fn.		3	20.47	−24.911	−0.0170
11.4	Fn.		8	20.72	−26.601	−0.0171
11.8	*Hd.*		*4*	*7.18*	*−26.749*	*−0.0171*
12.4	Hd.		8	20.72	−27.023	−0.0172
13.4	R.		9	20.60	−27.502	−0.0173
13.8	*Fn.*		*5*	*7.24*	*−27.675*	*−0.0173*
18.4	Fn.		8	20.70	−29.506	−0.0174
19.3	Hd.		6	19.33	−29.940	−0.0175
20.4	R.		9	21.31	−30.392	−0.0175
22.3	Hd.		6	19.38	−31.163	−0.0176
23.4	R.	WII	3	20.83	−31.663	−0.0176
25.4	Fn.	EII	9	21.13	−32.444	−0.0177
25.8	*Hd.*		*3*	*7.40*	*−32.624*	*−0.0177*
26.4	Hd.		8	20.82	−32.855	−0.0177
26.8	*R.*		*4*	*6.52*	*−33.035*	*−0.0177*
28.3	Fn.		5	20.02	−33.644	−0.0178
29.3	Hd.		7	20.47	−34.087	−0.0178
30.3	R.		8	21.32	−34.582	−0.0178
Oct. 4.3	Hd.		4	19.50	−36.222	−0.0177
4.4	Fn.		6	21.92	−36.240	−0.0177
4.8	*Hd.*		*5*	*7.56*	*−36.466*	*−0.0177*
5.3	Hd.		5	19.64	−36.692	−0.0177
5.3	R.		6	21.27	−36.772	−0.0177
5.8	*Hd.*		*5*	*7.56*	*−36.888*	*−0.0177*
6.3	Hd.		5	19.64	−37.122	−0.0177
6.3	Fn.	EII	6	21.27	−37.132	−0.0177
9.3	Fn.	WII	2	19.65	−38.378	−0.0176
11.3	Fn.		5	19.64	−39.194	−0.0175
11.4	Hd.		6	22.00	−39.249	−0.0175
12.3	Fn.		5	19.78	−39.622	−0.0174
12.4	R.		7	22.84	−39.700	−0.0174
12.9	*Fn.*		*4*	*9.70*	*−39.846*	*−0.0174*
13.3	Fn.		5	19.64	−40.029	−0.0173
13.4	Hd.		7	23.94	−40.094	−0.0173
16.3	Hd.		2	19.65	−41.254	−0.0171
16.4	Fn.		6	23.72	−41.325	−0.0171
18.3	Hd.		5	20.00	−42.091	−0.0170
18.4	Fn.		6	23.72	−42.180	−0.0170
18.8	*Hd.*		*4*	*9.55*	*−42.336*	*−0.0170*
22.3	R.		9	22.52	−44.233	−0.0165
23.8	*Fn.*		*5*	*9.44*	*−44.377*	*−0.0165*
24.4	Fn.		7	23.66	−44.635	−0.0164
24.8	*R.*		*5*	*9.44*	*−44.786*	*−0.0164*
25.3	R.		6	20.95	−44.993	−0.0163
25.4	Hd.		6	0.15	−45.012	−0.0163
25.8	*R.*		*5*	*9.44*	*−45.173*	*−0.0163*
26.3	R.		6	21.27	−45.388	−0.0162
26.4	Fn.		6	0.05	−45.416	−0.0162
26.8	*R.*	WII	*4*	*10.05*	*−45.608*	*−0.0162*
29.8	*R.*	EII	*5*	*9.44*	*−46.769*	*−0.0160*
30.3	R.	EII	5	21.12	−46.911	−0.0158
1911						
Oct. 30.4	Hd.	EII	4	22.70	−46.908	−0.0158
Nov. 2.3	R.		4	21.05	−48.073	−0.0156
2.4	Fn.		6	23.48	−48.059	−0.0156
2.8	*R.*		*4*	*10.68*	*−48.271*	*−0.0156*
3.3	R.		4	21.05	−48.434	−0.0155
3.4	Hd.		6	23.48	−48.481	−0.0155
7.3	Fn.		5	21.62	−49.901	−0.0152
7.4	R.		6	1.55	−50.003	−0.0152
10.3	Fn.		5	21.38	−51.023	−0.0153
10.4	Hd.		6	0.15	−51.067	−0.0153
10.8	*Fn.*		*3*	*11.33*	*−51.165*	*−0.0153*
11.3	Fn.		4	21.58	−51.358	−0.0153
11.4	R.		8	0.66	−51.452	−0.0153
12.8	*Hd.*		*3*	*11.00*	*−52.005*	*−0.0153*
13.3	Hd.		4	21.88	−52.151	−0.0154
13.4	Fn.		6	1.38	−52.171	−0.0155
15.4	Fn.		7	1.49	−52.910	−0.0158
15.8	*Hd.*		*6*	*10.75*	*−53.075*	*−0.0159*
16.2	Hd.		4	21.88	−53.252	−0.0159
16.4	R.		7	0.87	−53.302	−0.0159
16.8	*Hd.*		*5*	*10.88*	*−53.429*	*−0.0160*
18.2	Hd.		5	22.10	−54.042	−0.0161
18.4	R.		11	2.02	−54.090	−0.0161
19.4	Fn.		6	1.65	−54.490	−0.0162
20.9	*R.*		*5*	*13.56*	*−55.033*	*−0.0163*
21.2	R.		2	21.45	−55.200	−0.0163
21.4	Fn.		6	1.85	−55.263	−0.0163
21.8	*R.*		*4*	*11.75*	*−55.389*	*−0.0163*
22.2	R.		6	22.52	−55.603	−0.0164
22.5	Hd.		7	3.34	−55.666	−0.0164
22.8	*Fn.*	EII	*5*	*12.24*	*−55.813*	*−0.0164*
25.4	Hd.	WII	6	1.62	−56.832	−0.0165
26.8	*Hd.*		*5*	*11.80*	*−57.389*	*−0.0165*
30.4	R.		7	2.64	−58.872	−0.0166
30.8	*Hd.*		*5*	*12.28*	*−59.033*	*−0.0166*
Dec. 1.2	Hd.		4	22.70	−59.211	−0.0165
1.4	R.		9	2.36	−59.274	−0.0165
2.2	Hd.		4	22.38	−59.565	−0.0165
2.4	R.		5	2.50	−59.680	−0.0165
4.3	R.		6	23.48	−60.445	−0.0164
4.4	Hd.		6	3.08	−60.456	−0.0164
4.8	*R.*		*6*	*12.28*	*−60.645*	*−0.0163*
5.3	R.		6	23.48	−60.808	−0.0163
5.4	Hd.		6	2.30	−60.849	−0.0163
5.8	*R.*		*6*	*12.28*	*−61.064*	*−0.0163*
6.4	Hd.		6	2.88	−61.241	−0.0162
6.8	*R.*		*5*	*12.70*	*−61.406*	*−0.0162*
7.4	Hd.		6	3.82	−61.656	−0.0162
7.8	*R.*		*5*	*13.32*	*−61.843*	*−0.0161*
8.2	R.	WII	5	23.06	−61.966	−0.0161
10.8	*Hd.*	EII	*5*	*13.00*	*−62.919*	*−0.0161*
11.3	Hd.		5	23.68	−63.099	−0.0162
Clock set back one minute						
17.4	R.		5	3.82	− 5.565	−0.0166
18.8	*R.*		*5*	*13.38*	*− 6.164*	*−0.0167*
19.3	R.		4	0.00	− 6.337	−0.0169
19.4	Hd.		6	3.23	− 6.353	−0.0169
19.8	*R.*		*5*	*13.30*	*− 6.544*	*−0.0169*
20.3	Hd.		4	1.82	− 6.738	−0.0169
25.3	R.		7	2.96	− 8.771	−0.0171
27.4	R.		7	3.79	− 9.648	−0.0171
27.8	*Hd.*		*5*	*14.40*	*− 9.796*	*−0.0170*
28.2	Hd.		4	23.92	− 9.985	−0.0170
29.2	Hd.	EII	2	0.00	−10.340	−0.0169

TABLE VI.—*The Adopted Corrections and Rates of the Standard Sidereal Clock*—Continued

Date	Observer	Instrument	No. Stars	Sidereal Time	Clock Correction	Hourly Rate
				h	s	s
Riefler No. 60—Continued						
1912						
Jan. *1.8*	*R.*	EII	*7*	*14.94*	*−11.746*	*−0.0165*
4.4	Fn.		5	4.80	−12.705	−0.0161
4.8	*R.*		*6*	*14.85*	*−12.850*	*−0.0161*
5.9	*R.*		*4*	*15.58*	*−13.223*	*−0.0161*
8.9	*Fn.*		*3*	*15.80*	*−14.396*	*−0.0158*
9.2	Fn.		4	0.50	−14.538	−0.0157
9.4	R.		10	5.11	−14.667	−0.0157
9.8	*Fn.*		*6*	*15.15*	*−14.797*	*−0.0157*
10.2	Fn.		5	0.66	−14.947	−0.0157
10.3	Hd.	EII	6	3.72	−14.979	−0.0157
12.8	*Fn.*	WII	*5*	*14.68*	*−15.971*	*−0.0156*
13.3	R.		4	2.30	−16.201	−0.0156
15.3	Fn.		6	3.45	−17.050	−0.0156
15.8	*Hd.*		*5*	*15.66*	*−17.216*	*−0.0156*
16.4	R.		9	4.36	−17.412	−0.0156
16.8	*Hd.*		*2*	*15.35*	*−17.567*	*−0.0156*
19.4	Fn.		10	4.37	−18.459	−0.0157
19.9	*Hd.*		*5*	*15.66*	*−18.667*	*−0.0158*
20.4	R.		7	5.21	−18.855	−0.0158
21.3	Hd.		8	4.28	−19.194	−0.0159
22.2	Fn.		5	1.98	−19.625	−0.0160
22.4	Hd.	WII	6	4.93	−19.572	−0.0160
22.8	*R.*	EII	*5*	*15.80*	*−19.761*	*−0.0161*
23.2	R.		3	1.80	−19.933	−0.0162
23.3	Fn.		5	4.34	−19.963	−0.0162
24.4	R.		6	4.87	−20.324	−0.0163
24.8	*Fn.*		*6*	*16.03*	*−20.502*	*−0.0164*
27.4	R.		8	6.21	−21.555	−0.0166
Feb. 1.4	Fn.	EII	7	5.70	−23.569	−0.0171
2.4	Hd.	WII	8	5.21	−23.966	−0.0172
2.8	*R.*		*3*	*16.83*	*−24.208*	*−0.0172*
4.4	Fn.		8	5.38	−24.807	−0.0173
5.3	Fn.	WII	6	4.85	−25.238	−0.0174
6.2	*Fn.*	EII	*2*	*1.70*	*−25.529*	*−0.0174*
6.3	Hd.		6	4.25	−25.551	−0.0174
6.8	*R.*		*5*	*16.62*	*−25.783*	*−0.0174*
7.8	*Fn.*		*5*	*16.44*	*−26.196*	*−0.0174*
8.3	Fn.		8	4.89	−26.410	−0.0175
8.8	*Hd.*		*5*	*17.40*	*−26.638*	*−0.0175*
9.3	Hd.		7	4.67	−26.803	−0.0176
9.8	*R.*		*5*	*17.40*	*−27.086*	*−0.0176*
10.3	R.		8	5.28	−27.276	−0.0176
12.8	*Hd.*		*6*	*17.02*	*−28.304*	*−0.0177*
13.4	Hd.		7	6.39	−28.542	−0.0177
14.4	R.		8	7.41	−29.021	−0.0178
15.9	*Hd.*		*6*	*19.35*	*−29.640*	*−0.0178*
16.3	Hd.		7	5.90	−29.829	−0.0178
16.8	*R.*		*5*	*17.90*	*−30.079*	*−0.0178*
17.3	R.	EII	6	5.77	−30.303	−0.0178
18.8	*Fn.*	WII	*5*	*17.40*	*−30.929*	*−0.0178*
22.4	R.		8	6.94	−32.427	−0.0178
22.9	*Hd.*		*5*	*19.24*	*−32.575*	*−0.0178*
23.3	Hd.		7	5.77	−32.776	−0.0178
27.3	Hd.		7	6.09	−34.474	−0.0179
28.3	R.		7	6.44	−34.937	−0.0180
29.9	*Hd.*		*5*	*19.48*	*−35.571*	*−0.0180*
Mar. 1.3	Hd.		8	6.36	−35.769	−0.0181
1.8	*R.*		*5*	*18.16*	*−36.014*	*−0.0181*
2.3	R.		8	6.44	−36.248	−0.0181
5.3	Hd.		4	6.88	−37.537	−0.0182
7.3	Fn.	WII	7	7.09	−38.453	−0.0182
9.4	R.	EII	8	8.16	−39.334	−0.0183
10.3	Fn.		8	7.11	−39.761	−0.0184
10.8	*Hd.*		*6*	*18.50*	*−39.968*	*−0.0184*
13.3	Fn.		11	7.76	−41.089	−0.0184
13.8	*Hd.*	EII	*5*	*18.66*	*−41.298*	*−0.0184*
Riefler No. 60—Continued						
1912						
Mar. 16.4	Fn.	EII	8	8.41	−42.439	−0.0185
17.3	R.		9	7.96	−42.882	−0.0185
18.4	Fn.		9	9.54	−43.341	−0.0186
18.8	*Hd.*		*7*	*19.30*	*−43.545*	*−0.0186*
19.3	Hd.		4	7.35	−43.775	−0.0186
19.8	*R.*		*5*	*18.66*	*−43.980*	*−0.0186*
22.3	Hd.		7	8.16	−45.095	−0.0187
22.8	*R.*	EII	*5*	*18.66*	*−45.319*	*−0.0187*
25.3	Fn.	WII	8	8.29	−46.482	−0.0187
25.8	*Hd.*		*7*	*19.30*	*−46.676*	*−0.0187*
26.3	Hd.		7	8.09	−46.923	−0.0188
27.3	R.		3	7.47	−47.381	−0.0188
27.8	*Fn.*		*4*	*19.60*	*−47.633*	*−0.0188*
29.3	Hd.		3	7.47	−48.293	−0.0189
29.8	*R.*		*8*	*19.72*	*−48.529*	*−0.0189*
30.4	R.		5	8.90	−48.781	−0.0189
31.4	Hd.		6	9.87	−49.207	−0.0189
31.8	*Fn.*		*4*	*19.92*	*−49.458*	*−0.0189*
Apr. 2.4	Hd.		8	10.75	−50.135	−0.0190
2.8	*R.*		*8*	*19.50*	*−50.324*	*−0.0190*
3.4	R.		8	9.51	−50.590	−0.0190
3.8	*Fn.*	WII	*2*	*18.85*	*−50.749*	*−0.0190*
4.2	*Hd.*	EII	*2*	*6.55*	*−51.018*	*−0.0191*
4.3	Fn.		5	9.10	−51.024	−0.0191
4.8	*Hd.*		*4*	*19.42*	*−51.207*	*−0.0191*
5.3	Hd.		6	9.15	−51.488	−0.0191
5.8	*R.*		*7*	*19.36*	*−51.730*	*−0.0191*
6.4	R.	EII	8	10.19	−52.005	−0.0192
7.8	*Fn.*	WII	*7*	*19.69*	*−52.599*	*−0.0192*
8.4	Fn.		9	9.94	−52.891	−0.0192
8.8	*Hd.*		*6*	*19.72*	*−53.078*	*−0.0192*
9.3	Hd.		8	9.46	−53.332	−0.0193
10.4	R.		8	10.80	−53.864	−0.0193
10.8	*Fn.*	WII	*6*	*19.72*	*−54.017*	*−0.0193*
11.4	Fn.	EII	8	10.14	−54.295	−0.0193
11.8	*Hd.*		*5*	*19.70*	*−54.481*	*−0.0193*
16.4	Hd.		8	10.14	−56.664	−0.0195
18.8	*Hd.*		*4*	*20.28*	*−57.830*	*−0.0196*
19.4	Hd.	EII	8	10.64	−58.085	−0.0196
20.3	Fn.	WII	9	10.01	−58.551	−0.0197
22.3	Fn.		5	9.26	−59.477	−0.0198
22.9	*Hd.*		*3*	*23.73*	*−59.758*	*−0.0198*
23.4	Hd.		8	10.71	−59.972	−0.0199
23.8	*R.*	WII	*3*	*21.63*	*−60.193*	*−0.0199*
24.8	*Fn.*	EII	*6*	*22.37*	*−60.727*	*−0.0199*
25.4	Fn.		6	11.22	−60.953	−0.0200
26.8	*R.*		*2*	*20.95*	*−61.632*	*−0.0201*
Clock set back one minute						
27.4	R.		8	12.35	− 1.968	−0.0202
30.8	*R.*		*3*	*22.73*	*− 3.655*	*−0.0204*
May 1.4	R.		8	12.10	− 3.915	−0.0205
1.8	*Fn.*		*2*	*20.30*	*− 4.076*	*−0.0205*
2.4	Fn.		8	12.72	− 4.419	−0.0206
2.9	*Hd.*		*5*	*23.90*	*− 4.677*	*−0.0206*
3.4	Hd.	EII	8	13.10	− 4.914	−0.0206
4.4	R.	WII	8	13.26	− 5.418	−0.0207
8.9	*Fn.*		*4*	*23.98*	*− 7.644*	*−0.0209*
9.4	Fn.		8	12.91	− 7.903	−0.0210
9.9	*Hd.*		*6*	*0.53*	*− 8.145*	*−0.0210*
10.4	Hd.		7	12.76	− 8.400	−0.0211
10.9	*R.*		*3*	*23.93*	*− 8.703*	*−0.0211*
13.4	Fn.		8	13.90	− 9.970	−0.0213
13.9	*R.*		*3*	*0.30*	*−10.251*	*−0.0213*
16.4	Fn.	WII	3	12.00	−11.461	−0.0214
16.9	*R.*	EII	*3*	*0.63*	*−11.750*	*−0.0214*

TABLE VI.—*The Adopted Corrections and Rates of the Standard Sidereal Clock*—Continued

Date	Observer	Instrument	No. Stars	Sidereal Time	Clock Correction	Hourly Rate
				h	s	s
Riefler No. 60—Continued						
1912						
May 17.9	*Hd.*	EII	*6*	*0.97*	*−12.236*	*−0.0215*
18.4	Hd.		8	13.80	−12.527	−0.0215
19.4	R.		8	14.08	−13.026	−0.0215
19.8	*Fn.*		*3*	*23.43*	*−13.254*	*−0.0215*
20.4	Fn.	EII	7	13.44	−13.512	−0.0216
21.4	Hd.	WII	8	13.49	−14.041	−0.0216
24.4	Hd.	EII	8	13.54	−15.560	−0.0217
24.8	*R.*		*2*	*1.05*	*−15.836*	*−0.0217*
25.4	R.		8	15.00	−16.138	−0.0218
26.4	Hd.		7	14.06	−16.632	−0.0218
26.8	*Fn.*		*4*	*0.55*	*−16.873*	*−0.0218*
27.4	Fn.	EII	7	14.26	−17.144	−0.0218
27.9	*Hd.*	WII	*5*	*1.02*	*−17.359*	*−0.0218*
28.4	Hd.		7	14.56	−17.646	−0.0218
30.4	Fn.		7	14.56	−18.724	−0.0218
30.8	*Hd.*		*6*	*0.97*	*−18.958*	*−0.0218*
31.4	Hd.		7	14.33	−19.220	−0.0218
31.8	*R.*		*6*	*0.98*	*−19.483*	*−0.0218*
June 1.4	R.		7	15.11	−19.788	−0.0218
3.4	Fn.	WII	10	14.89	−20.816	−0.0218
4.4	Hd.	EII	3	13.53	−21.320	−0.0218
5.4	R.		7	14.66	−21.874	−0.0217
7.4	Hd.		5	14.14	−22.860	−0.0217
7.9	*R.*		*3*	*2.87*	*−23.157*	*−0.0217*
8.4	R.	EII	7	14.93	−23.438	−0.0216
July 25.4	Fn.	WII	5	18.38	−44.761	−0.0191
26.5	R.		8	20.30	−45.260	−0.0192
26.9	*Fn.*		*6*	*4.60*	*−45.431*	*−0.0192*
27.4	Fn.		8	18.14	−45.713	−0.0193
29.8	*R.*		*5*	*4.42*	*−46.827*	*−0.0194*
30.6	R.		8	22.44	−47.181	−0.0195
Aug. 1.5	R.		8	20.05	−48.072	−0.0197
1.9	*Fn.*	WII	*3*	*5.43*	*−48.240*	*−0.0197*
2.9	*R.*	EII	*5*	*5.14*	*−48.701*	*−0.0197*
3.5	R.		8	21.91	−49.050	−0.0198
4.9	*Fn.*		*6*	*5.20*	*−49.666*	*−0.0198*
5.4	Fn.		7	18.20	−49.935	−0.0198
6.6	R.		8	23.04	−50.533	−0.0198
7.4	Fn.		9	18.93	−50.901	−0.0199
10.5	R.		9	20.66	−52.373	−0.0199
11.9	*Fn.*		*3*	*5.93*	*−52.981*	*−0.0200*
12.4	Fn.		9	19.20	−53.293	−0.0200
12.9	*R.*	EII	*5*	*6.30*	*−53.545*	*−0.0200*
15.4	R.	WII	9	20.56	−54.796	−0.0200
16.9	*R.*		*2*	*6.75*	*−55.472*	*−0.0201*
18.8	*Fn.*		*6*	*6.00*	*−56.428*	*−0.0201*
20.6	R.		8	23.26	−57.278	−0.0202
20.8	*Fn.*		*5*	*5.90*	*−57.407*	*−0.0202*
22.5	R.		6	22.42	−58.226	−0.0203
22.8	*Fn.*		*3*	*5.33*	*−58.360*	*−0.0203*
23.4	Fn.		9	19.27	−58.645	−0.0204
23.8	*R.*		*5*	*6.36*	*−58.880*	*−0.0204*
24.5	R.		9	23.02	−59.209	−0.0205
27.6	R.		8	23.62	−60.714	−0.0208
28.3	Fn.		3	18.20	−61.098	−0.0209
29.4	R.		9	21.17	−61.653	−0.0210
29.8	*Fn.*		*5*	*6.58*	*−61.869*	*−0.0211*
30.3	Fn.		3	18.73	−62.128	−0.0211
31.5	R.	WII	9	22.41	−62.694	−0.0212
Clock set back one minute						
Sept. 4.4	Hd.	EII	4	20.02	− 4.710	−0.0215
5.4	Fn.		7	19.91	− 5.255	−0.0216
6.4	Hd.		7	20.64	− 5.735	−0.0217
8.9	*Hd.*		*4*	*7.32*	*− 7.041*	*−0.0218*
9.4	Hd.	EII	9	21.10	− 7.331	−0.0219

Date	Observer	Instrument	No. Stars	Sidereal Time	Clock Correction	Hourly Rate
				h	s	s
Riefler No. 60—Continued						
1912						
Sept. 9.9	*R.*	EII	*4*	*7.90*	*− 7.586*	*−0.0219*
10.4	R.		9	22.37	− 7.906	−0.0220
10.9	*Hd.*	EII	*5*	*7.72*	*− 8.081*	*−0.0220*
12.4	R.	WII	8	21.14	− 8.914	−0.0221
12.9	*Hd.*		*4*	*7.90*	*− 9.180*	*−0.0222*
14.4	R.		8	21.79	− 9.989	−0.0222
15.9	*Hd.*		*6*	*8.58*	*−10.771*	*−0.0223*
17.4	R.		8	22.02	−11.606	−0.0224
19.5	R.		8	23.74	−12.706	−0.0225
19.9	*Hd.*		*9*	*8.54*	*−12.909*	*−0.0225*
20.4	Hd.		7	20.81	−13.156	−0.0225
21.3	R.	WII	5	20.36	−13.703	−0.0225
27.3	Hd.	EII	8	20.76	−16.948	−0.0225
27.9	*R.*		*6*	*9.23*	*−17.271*	*−0.0225*
28.4	R.		5	22.50	−17.541	−0.0225
29.4	R.		9	22.73	−18.114	−0.0225
29.9	*R.*		*6*	*9.33*	*−18.421*	*−0.0225*
30.3	Hd.		7	19.43	−18.573	−0.0225
30.5	R.		8	1.20	−18.717	−0.0225
30.8	*Hd.*		*6*	*9.33*	*−18.854*	*−0.0225*
Oct. 1.3	Hd.		5	19.56	−19.092	−0.0224
1.5	R.		8	1.24	−19.259	−0.0224
1.9	*Hd.*		*6*	*9.33*	*−19.412*	*−0.0224*
2.4	R.		8	23.04	−19.736	−0.0224
2.9	*Hd.*		*3*	*9.70*	*−19.914*	*−0.0224*
3.3	Hd.		8	20.12	−20.196	−0.0224
3.9	*Hd.*		*6*	*9.33*	*−20.429*	*−0.0224*
4.3	Hd.		6	21.05	−20.708	−0.0223
4.5	R.		6	0.78	−20.847	−0.0223
4.8	*Hd.*		*6*	*9.33*	*−20.985*	*−0.0223*
5.4	Hd.		6	21.40	−21.259	−0.0223
5.6	R.	EII	7	2.94	−21.413	−0.0223
6.9	*Hd.*	WII	*6*	*9.33*	*−22.031*	*−0.0223*
7.4	Hd.		4	21.57	−22.296	−0.0223
7.5	R.		8	1.82	−22.423	−0.0223
7.9	*Hd.*		*6*	*9.33*	*−22.563*	*−0.0223*
8.3	Hd.		6	21.23	−22.828	−0.0222
8.6	R.		7	3.10	−23.019	−0.0222
9.3	Hd.		8	20.89	−23.346	−0.0222
9.5	R.		8	2.85	−23.499	−0.0222
9.8	*Hd.*		*6*	*9.33*	*−23.580*	*−0.0222*
10.3	Hd.		6	19.93	−23.858	−0.0222
10.5	R.		8	1.50	−24.005	−0.0222
10.8	*Hd.*		*6*	*9.33*	*−24.132*	*−0.0222*
11.3	Hd.		6	21.20	−24.414	−0.0221
11.8	*Hd.*		*2*	*9.55*	*−24.662*	*−0.0221*
14.4	Fn.		7	0.24	−26.040	−0.0220
14.9	*R.*		*2*	*10.65*	*−26.324*	*−0.0220*
15.3	Hd.		6	20.38	−26.513	−0.0220
15.5	R.		8	2.74	−26.686	−0.0220
16.3	Fn.		8	22.48	−27.121	−0.0219
16.9	*R.*		*8*	*10.10*	*−27.335*	*−0.0219*
17.8	*Fn.*		*6*	*9.82*	*−27.878*	*−0.0219*
18.3	Fn.	WII	4	22.20	−28.125	−0.0219
20.8	*Fn.*	EII	*4*	*9.60*	*−29.452*	*−0.0218*
25.5	Fn.		6	3.63	−31.985	−0.0216
25.8	*R.*		*3*	*10.00*	*−32.201*	*−0.0216*
26.3	Fn.		7	22.07	−32.391	−0.0216
26.5	R.		8	3.65	−32.538	−0.0216
27.3	R.		9	22.74	−32.993	−0.0216
28.3	Fn.		7	21.99	−33.458	−0.0215
28.8	*R.*		*4*	*10.80*	*−33.760*	*−0.0215*
29.5	R.		12	3.00	−34.093	−0.0215
29.8	*Fn.*		*3*	*10.00*	*−34.263*	*−0.0215*
30.4	Fn.		4	23.72	−34.546	−0.0215
30.8	*Hd.*	EII	*4*	*10.50*	*−34.761*	*−0.0215*

TABLE VI.—*The Adopted Corrections and Rates of the Standard Sidereal Clock*—Continued

Date	Observer	Instrument	No. Stars	Sidereal Time	Clock Correction	Hourly Rate
				h	s	s
Riefler No. 60—Continued						
1912						
Oct. 31.4	Hd.	EII	5	23.80	−35.073	−0.0214
31.5	R.	EII	3	3.33	−35.155	−0.0214
Nov. 1.5	Fn.	WII	9	2.22	−35.691	−0.0214
2.4	R.		5	0.78	−36.174	−0.0214
4.3	Fn.		4	23.22	−37.195	−0.0213
4.5	R.		13	3.55	−37.262	−0.0213
5.3	Fn.		8	23.74	−37.734	−0.0213
6.4	R.		6	0.40	−38.238	−0.0213
7.9	*Hd.*		*2*	*12.95*	*−38.994*	*−0.0212*
9.4	Fn.	WII	8	0.35	−39.775	−0.0212
10.4	R.	EII	8	0.81	−40.283	−0.0212
10.9	*R.*		*5*	*13.54*	*−40.558*	*−0.0212*
11.5	R.		6	2.02	−40.830	−0.0212
11.9	*Fn.*		*4*	*13.60*	*−41.007*	*−0.0212*
12.3	Fn.		4	23.42	−41.174	−0.0212
12.5	R.		10	3.21	−41.329	−0.0212
14.5	R.		7	4.19	−42.348	−0.0212
15.3	Hd.		3	23.50	−42.732	−0.0212
15.9	*Hd.*		*5*	*13.44*	*−43.052*	*−0.0212*
16.4	Hd.		6	0.23	−43.285	−0.0212
16.6	R.		8	7.50	−43.475	−0.0212
18.3	Fn.		7	0.34	−44.306	−0.0212
18.9	*R.*		*2*	*13.10*	*−44.632*	*−0.0212*
19.4	R.		8	1.10	−44.874	−0.0212
20.4	Fn.		12	2.19	−45.360	−0.0213
20.9	*R.*		*4*	*14.00*	*−45.642*	*−0.0213*
21.4	R.		7	2.54	−45.905	−0.0213
22.4	Fn.		10	1.44	−46.361	−0.0213
22.9	*Hd.*		*5*	*13.80*	*−46.626*	*−0.0214*
23.4	Hd.	EII	4	1.45	−46.857	−0.0214
25.4	Fn.	WII	5	0.90	−47.921	−0.0215
25.9	*Hd.*		*5*	*13.80*	*−48.209*	*−0.0215*
26.4	Hd.		8	1.38	−48.470	−0.0215
26.9	*Fn.*		*4*	*14.55*	*−48.744*	*−0.0216*
28.9	*Fn.*		*8*	*13.99*	*−49.766*	*−0.0216*
29.4	Fn.		10	1.57	−50.023	−0.0217
29.9	*Hd.*		*6*	*14.33*	*−50.318*	*−0.0218*
30.4	Hd.		8	2.75	−50.582	−0.0218
Dec. *2.9*	*R.*		*4*	*15.02*	*−51.907*	*−0.0219*
3.4	R.		8	3.62	−52.197	−0.0219
6.4	Fn.		7	3.23	−53.759	−0.0220
7.3	Hd.		2	1.60	−54.230	−0.0220
8.9	*Fn.*		*3*	*14.33*	*−55.087*	*−0.0220*
9.4	Fn.		7	3.03	−55.334	−0.0219
9.9	*R.*	WII	*5*	*14.26*	*−55.546*	*−0.0219*
11.9	*R.*	EII	*7*	*14.53*	*−56.610*	*−0.0219*
12.5	R.		9	4.73	−56.932	−0.0218
12.9	*Hd.*		*5*	*14.60*	*−57.099*	*−0.0218*
13.4	Hd.		8	2.82	−57.393	−0.0217
13.6	Fn.		6	8.05	−57.510	−0.0217
13.9	*R.*		*7*	*14.53*	*−57.671*	*−0.0217*
14.4	R.		10	3.13	−57.934	−0.0217
15.4	Fn.		5	3.00	−58.425	−0.0216
15.9	*Fn.*		*2*	*14.25*	*−58.652*	*−0.0216*
16.5	Fn.		7	6.86	−59.032	−0.0215
16.8	*R.*		*2*	*13.55*	*−59.184*	*−0.0215*
19.4	Hd.		7	3.41	−60.492	−0.0213
19.6	R.		9	8.83	−60.630	−0.0213
19.9	*Fn.*		*2*	*14.45*	*−60.756*	*−0.0212*
20.4	Fn.		8	3.96	−61.012	−0.0212
20.9	*R.*		*6*	*15.17*	*−61.274*	*−0.0212*
21.5	R.	EII	8	6.82	−61.621	−0.0211
22.4	Fn.	WII	3	3.93	−62.080	−0.0210
22.6	R.		9	9.21	−62.203	−0.0210
22.9	*Fn.*	WII	*7*	*15.50*	*−62.292*	*−0.0209*
Clock set back one minute						

Date	Observer	Instrument	No. Stars	Sidereal Time	Clock Correction	Hourly Rate
				h	s	s
Riefler No. 60—Continued						
1912						
Dec. *25.9*	*R.*	WII	*9*	*14.81*	*− 3.808*	*−0.0208*
27.4	Fn.		6	5.12	− 4.612	−0.0206
27.9	*Hd.*		*6*	*15.83*	*− 4.795*	*−0.0205*
28.4	Hd.		6	4.38	− 5.068	−0.0205
28.6	R.		9	9.78	− 5.187	−0.0205
30.4	Fn.		6	4.62	− 6.050	−0.0204
30.9	*Hd.*		*2*	*16.35*	*− 6.270*	*−0.0204*
1913						
Jan. *1.9*	*R.*		*8*	*15.54*	*− 7.275*	*−0.0204*
3.6	Fn.		6	8.72	− 8.074	−0.0203
3.9	*Hd.*		*6*	*16.33*	*− 8.240*	*−0.0203*
4.4	Hd.		7	4.37	− 8.496	−0.0203
8.4	Fn.		7	5.09	−10.470	−0.0201
8.8	*R.*		*6*	*15.07*	*−10.680*	*−0.0201*
9.4	R.		8	5.18	−10.955	−0.0200
12.9	*Fn.*		*6*	*16.57*	*−12.581*	*−0.0197*
13.9	*R.*		*7*	*16.93*	*−13.066*	*−0.0196*
14.4	R.		8	4.81	−13.335	−0.0195
14.9	*Fn.*		*4*	*15.87*	*−13.533*	*−0.0195*
15.4	Fn.	WII	7	4.87	−13.784	−0.0195
18.4	Hd.	EII	8	4.49	−15.146	−0.0192
18.6	R.		8	10.41	−15.302	−0.0192
19.3	Hd.		8	3.92	−15.586	−0.0191
19.6	R.		8	9.29	−15.726	−0.0191
20.3	Fn.		2	3.90	−16.067	−0.0190
21.4	Hd.		9	4.72	−16.485	−0.0190
21.6	R.		7	10.33	−16.634	−0.0190
21.9	*Fn.*		*8*	*17.34*	*−16.799*	*−0.0189*
22.4	Fn.		10	5.44	−17.032	−0.0189
25.4	Hd.		9	5.28	−18.374	−0.0188
25.6	R.		10	10.72	−18.517	−0.0188
26.4	Hd.		7	5.86	−18.852	−0.0187
27.5	Fn.		7	9.34	−19.308	−0.0187
27.9	*R.*		*9*	*17.10*	*−19.517*	*−0.0187*
28.4	R.	EII	7	5.96	−19.789	−0.0187
29.5	Fn.	WII	7	9.37	−20.292	−0.0186
30.4	Hd.		8	5.12	−20.646	−0.0186
30.6	R.		7	10.90	−20.782	−0.0186
Feb. 1.3	Hd.		6	4.77	−21.544	−0.0186
3.9	*Hd.*		*4*	*18.05*	*−22.673*	*−0.0186*
4.4	Hd.		7	5.16	−22.868	−0.0186
4.6	R.		10	11.51	−22.999	−0.0186
4.9	*Fn.*		*6*	*18.32*	*−23.114*	*−0.0186*
5.3	Fn.		5	5.34	−23.335	−0.0186
5.8	*R.*		*5*	*17.82*	*−23.575*	*−0.0186*
6.4	R.		7	7.29	−23.830	−0.0186
6.9	*Fn.*		*5*	*17.98*	*−24.042*	*−0.0186*
7.4	Fn.		8	6.35	−24.262	−0.0187
8.4	Hd.		5	7.12	−24.708	−0.0187
8.6	R.		8	12.59	−24.854	−0.0187
9.9	*Fn.*		*4*	*17.95*	*−25.369*	*−0.0187*
10.4	Fn.		5	6.52	−25.617	−0.0187
11.9	*Fn.*		*6*	*18.43*	*−26.289*	*−0.0188*
12.4	Fn.		7	7.21	−26.583	−0.0188
12.9	*R.*		*7*	*18.50*	*−26.762*	*−0.0188*
13.5	R.		10	8.39	−27.015	−0.0188
14.4	Fn.		8	7.28	−27.425	−0.0189
14.9	*Hd.*		*6*	*19.08*	*−27.662*	*−0.0189*
15.4	Hd.		6	7.08	−27.890	−0.0189
15.5	R.	WII	8	9.90	−27.964	−0.0189
17.4	Fn.	EII	7	6.87	−28.755	−0.0191
17.9	*Hd.*		*7*	*19.07*	*−29.031*	*−0.0191*
18.4	Hd.		7	7.04	−29.231	−0.0192
18.9	*Fn.*		*3*	*19.23*	*−29.514*	*−0.0192*
19.4	Fn.	EII	9	7.23	−29.687	−0.0193

TABLE VI.—*The Adopted Corrections and Rates of the Standard Sidereal Clock*—Continued

Date	Observer	Instrument	No. Stars	Sidereal Time	Clock Correction	Hourly Rate
				h	s	s
Riefler No. 60—Continued						
1913						
Feb. 21.3	Fn.	EII	7	6.59	−30.632	−0.0194
23.4	R.		3	8.63	−31.633	−0.0196
24.9	*Hd.*		*6*	*19.08*	*−32.299*	*−0.0197*
25.4	Hd.		7	7.37	−32.477	−0.0198
25.6	R.		8	13.22	−32.605	−0.0198
27.9	*Fn.*		*4*	*19.92*	*−33.854*	*−0.0198*
28.4	Fn.		8	8.49	−33.988	−0.0199
Mar. *2.9*	*Fn.*		*6*	*19.60*	*−35.207*	*−0.0199*
3.4	Fn.		8	8.54	−35.402	−0.0200
4.9	*Fn.*		*3*	*20.00*	*−36.159*	*−0.0200*
5.4	Fn.		8	9.08	−36.414	−0.0200
6.4	Hd.		5	8.18	−36.888	−0.0201
6.8	*Fn.*		*5*	*19.58*	*−37.127*	*−0.0201*
7.4	Fn.		7	9.31	−37.370	−0.0201
11.4	Hd.		6	8.27	−39.231	−0.0201
11.6	R.		8	13.85	−39.360	−0.0201
11.8	*Fn.*		*4*	*19.85*	*−39.447*	*−0.0201*
12.4	Fn.	EII	8	8.26	−39.686	−0.0200
16.8	*Fn.*	WII	*3*	*20.07*	*−41.880*	*−0.0198*
17.4	Fn.		8	9.04	−42.126	−0.0198
17.9	*Hd.*		*8*	*20.32*	*−42.344*	*−0.0197*
18.4	Hd.		6	8.57	−42.589	−0.0197
18.6	R.		8	14.69	−42.725	−0.0197
18.8	*Fn.*		*5*	*19.82*	*−42.826*	*−0.0197*
20.4	R.		8	9.61	−43.556	−0.0195
21.4	Fn.		9	8.80	−43.995	−0.0193
22.4	Hd.		7	10.07	−44.459	−0.0192
22.6	R.	WII	8	15.09	−44.606	−0.0192
24.4	Fn.	EII	7	9.37	−45.311	−0.0189
27.5	R.		8	11.30	−46.695	−0.0185
28.4	Fn.		8	10.14	−47.097	−0.0184
28.9	*Hd.*		*2*	*21.20*	*−47.309*	*−0.0184*
29.4	Hd.		8	9.84	−47.519	−0.0183
29.6	R.		6	15.32	−47.661	−0.0183
30.5	R.		5	12.80	−48.046	−0.0182
31.5	Fn.		8	11.78	−48.447	−0.0181
31.9	*Hd.*		*3*	*21.20*	*−48.593*	*−0.0180*
Apr. 1.5	Hd.		7	11.64	−48.868	−0.0180
1.6	R.		8	15.85	−48.962	−0.0180
1.8	*Fn.*		*2*	*20.95*	*−48.984*	*−0.0180*
2.5	Fn.		8	12.01	−49.331	−0.0179
3.5	R.	EII	8	13.05	−49.768	−0.0178
4.9	*Hd.*	WII	*2*	*21.85*	*−50.384*	*−0.0177*
5.4	Hd.		8	9.84	−50.584	−0.0177
6.4	R.		8	12.18	−51.083	−0.0177
6.8	*Fn.*		*2*	*21.90*	*−51.254*	*−0.0177*
7.4	Fn.		8	10.55	−51.478	−0.0177
7.8	*Hd.*		*6*	*21.37*	*−51.646*	*−0.0177*
8.4	Hd.		7	9.93	−51.871	−0.0178
8.6	R.		8	15.74	−51.990	−0.0178
16.4	Hd.		9	10.38	−55.340	−0.0183
16.9	*R.*		*6*	*23.02*	*−55.598*	*−0.0183*
17.5	R.		8	13.32	−55.845	−0.0184
17.9	*Fn.*		*6*	*22.47*	*−56.034*	*−0.0184*
18.4	Fn.		5	12.16	−56.320	−0.0184
19.5	R.		8	13.52	−56.757	−0.0185
20.5	R.	WII	8	14.85	−57.237	−0.0186
20.9	*Hd.*	EII	*3*	*23.23*	*−57.342*	*−0.0187*
21.4	Hd.		8	11.41	−57.529	−0.0187
21.8	*Fn.*		*2*	*22.35*	*−57.774*	*−0.0187*
22.4	Fn.		7	11.64	−58.032	−0.0188
24.4	Hd.		7	11.83	−58.931	−0.0189
25.4	Fn.		8	12.54	−59.413	−0.0190
29.6	Fn.		7	15.77	−61.282	−0.0193
29.9	*R.*	EII	*5*	*23.28*	*−61.455*	*−0.0193*
Clock set back one minute						
Riefler No. 60—Continued						
1913						
Apr. 30.4	R.	EII	9	13.83	− 1.711	−0.0194
30.9	*Hd.*		*6*	*23.58*	*− 1.894*	*−0.0194*
May 1.5	Hd.		8	14.14	− 2.133	−0.0194
1.9	*Fn.*		*8*	*23.95*	*− 2.360*	*−0.0194*
2.5	Fn.		7	13.99	− 2.614	−0.0195
2.9	*R.*		*4*	*0.50*	*− 2.818*	*−0.0195*
3.5	R.		9	13.93	− 3.098	−0.0196
5.5	Hd.		8	13.95	− 4.030	−0.0197
6.4	Fn.		7	14.01	− 4.465	−0.0197
7.9	*Hd.*		*2*	*23.55*	*− 5.225*	*−0.0198*
8.4	Hd.		8	13.99	− 5.442	−0.0198
8.8	*Fn.*		*3*	*23.23*	*− 5.666*	*−0.0198*
10.5	R.	EII	8	14.69	− 6.487	−0.0199
11.9	*Hd.*	WII	*3*	*23.43*	*− 7.187*	*−0.0200*
12.4	Hd.		6	13.05	− 7.392	−0.0200
13.4	Fn.		4	12.70	− 7.872	−0.0201
15.4	Hd.		8	13.70	− 8.858	−0.0202
18.9	*Hd.*		*5*	*0.38*	*−10.517*	*−0.0203*
19.4	Hd.		8	13.78	−10.803	−0.0203
20.4	Fn.		8	13.90	−11.308	−0.0204
24.5	R.		10	17.43	−13.312	−0.0205
25.8	*Hd.*		*3*	*0.63*	*−13.914*	*−0.0205*
28.5	R.		10	17.05	−15.281	−0.0206
28.8	*Hd.*		*5*	*0.80*	*−15.429*	*−0.0206*
29.4	Hd.		8	14.25	−15.700	−0.0206
30.9	*R.*		*4*	*1.65*	*−16.483*	*−0.0207*
31.4	R.		8	15.54	−16.762	−0.0207
June *1.9*	*Hd.*		*2*	*2.05*	*−17.490*	*−0.0207*
2.4	Hd.		8	14.52	−17.733	−0.0207
2.8	*Fn.*		*4*	*0.50*	*−17.924*	*−0.0207*
4.4	R.		9	15.21	−18.728	−0.0206
4.8	*Hd.*		*4*	*1.75*	*−18.974*	*−0.0206*
5.4	Hd.		9	14.49	−19.196	−0.0206
5.8	*Fn.*		*3*	*1.07*	*−19.423*	*−0.0206*
6.4	Fn.		10	15.10	−19.746	−0.0206
9.4	Hd.		9	15.19	−21.205	−0.0206
9.9	*R.*		*5*	*2.00*	*−21.444*	*−0.0205*
10.4	R.	WII	9	15.41	−21.680	−0.0205
11.4	Fn.	EII	5	14.88	−22.113	−0.0205
11.9	*Hd.*		*6*	*2.45*	*−22.410*	*−0.0205*
12.4	Hd.		8	16.06	−22.661	−0.0205
12.8	*Fn.*		*2*	*1.55*	*−22.926*	*−0.0205*
13.4	Fn.		8	16.12	−23.117	−0.0205
15.9	*Hd.*		*6*	*2.42*	*−24.407*	*−0.0204*
17.4	Fn.		7	16.09	−25.120	−0.0204
17.9	*R.*		*4*	*3.45*	*−25.450*	*−0.0204*
18.4	R.		8	16.22	−25.643	−0.0204
18.8	*Hd.*		*2*	*1.90*	*−25.824*	*−0.0204*
19.4	Hd.		8	15.19	−26.076	−0.0204
20.4	Fn.		3	15.20	−26.568	−0.0204
21.5	R.		6	17.95	−27.113	−0.0204
24.5	Fn.		8	18.05	−28.597	−0.0206
26.4	Hd.		8	16.62	−29.539	−0.0207
26.8	*Fn.*		*3*	*2.27*	*−29.746*	*−0.0208*
27.8	*R.*		*4*	*2.40*	*−30.279*	*−0.0208*
29.8	*Hd.*		*6*	*2.82*	*−31.279*	*−0.0209*
30.4	Hd.		7	16.80	−31.563	−0.0209
30.8	*Fn.*		*4*	*3.00*	*−31.776*	*−0.0209*
July 1.4	Fn.		9	17.13	−32.080	−0.0209
1.8	*Hd.*		*5*	*2.04*	*−32.230*	*−0.0209*
2.9	*R.*		*8*	*3.14*	*−32.782*	*−0.0210*
3.5	R.		6	19.15	−33.142	−0.0210
4.4	Hd.		7	17.94	−33.596	−0.0211
4.8	*Fn.*		*4*	*3.70*	*−33.800*	*−0.0211*
5.5	Fn.	EII	6	18.28	−34.113	−0.0211

TABLE VI.—*The Adopted Corrections and Rates of the Standard Sidereal Clock*—Continued

Date	Observer	Instrument	No. Stars	Sidereal Time	Clock Correction	Hourly Rate
				h	s	s
Riefler No. 60—Continued						
1913						
July 6.8	*Hd.*	WII	*6*	*3.83*	*−34.840*	*−0.0211*
7.4	Hd.		9	16.46	−35.092	−0.0212
7.9	*Fn.*		*6*	*4.03*	*−35.368*	*−0.0212*
8.4	Fn.		10	16.73	−35.610	−0.0212
9.9	*Fn.*		*4*	*5.20*	*−36.447*	*−0.0212*
10.4	Fn.		7	17.74	−36.643	−0.0213
10.9	*Hd.*		*6*	*4.15*	*−36.888*	*−0.0213*
11.4	Hd.		8	18.05	−37.175	−0.0213
12.5	Fn.		7	18.93	−37.726	−0.0213
14.5	Fn.	WII	10	18.57	−38.714	−0.0213
Nov. 3.4	Fn.	EI	6	23.55	−34.117	−0.0220
4.4	R.		9	0.46	−34.689	−0.0220
4.6	Fn.		7	5.34	−34.757	−0.0220
4.9	*Hd.*		*4*	*12.72*	*−34.921*	*−0.0220*
5.3	Hd.		7	23.56	−35.129	−0.0220
5.6	R.		7	5.79	−35.308	−0.0220
5.9	*Fn.*		*4*	*12.60*	*−35.425*	*−0.0220*
6.4	Fn.		9	23.72	−35.706	−0.0220
6.9	*R.*		*5*	*13.20*	*−36.000*	*−0.0220*
7.4	R.	EI	7	0.40	−36.211	−0.0220
10.4	Fn.	WI	6	23.72	−37.833	−0.0219
10.6	Hd.		7	5.37	−37.957	−0.0219
11.4	R.		7	0.47	−38.341	−0.0218
11.9	*Hd.*		*7*	*13.03*	*−38.641*	*−0.0218*
12.4	Hd.		10	0.28	−38.882	−0.0218
13.4	Fn.		7	0.07	−39.400	−0.0218
16.9	*Fn.*		*4*	*12.95*	*−41.291*	*−0.0220*
17.3	Fn.		8	23.98	−41.513	−0.0220
17.6	Hd.		8	5.49	−41.624	−0.0220
17.9	*R.*		*10*	*13.13*	*−41.807*	*−0.0222*
18.9	*Hd.*		*4*	*14.00*	*−42.374*	*−0.0222*
19.3	Hd.		7	23.60	−42.570	−0.0222
20.4	Fn.		8	0.56	−43.107	−0.0223
20.5	Hd.		7	4.87	−43.217	−0.0223
20.9	*R.*		*9*	*13.52*	*−43.426*	*−0.0223*
21.3	R.		8	23.94	−43.639	−0.0224
21.6	Fn.		7	5.76	−43.745	−0.0224
21.9	*Hd.*		*8*	*13.59*	*−43.921*	*−0.0225*
22.3	Hd.		7	23.56	−44.158	−0.0235
22.6	R.		8	6.20	−44.322	−0.0225
23.9	*Fn.*		*4*	*14.20*	*−45.056*	*−0.0225*
24.3	Fn.		8	0.18	−45.268	−0.0225
24.6	Hd.	WI	7	7.74	−45.427	−0.0225
24.9	*R.*	EI	*9*	*13.91*	*−45.559*	*−0.0226*
25.3	R.		6	23.15	−45.731	−0.0226
Dec. 1.9	*R.*		*3*	*14.23*	*−49.268*	*−0.0226*
3.3	Hd.		8	23.84	−49.979	−0.0225
3.5	R.		8	6.41	−50.137	−0.0225
3.9	*Fn.*		*6*	*13.75*	*−50.328*	*−0.0225*
4.3	Fn.		7	23.87	−50.547	−0.0225
4.9	*Fn.*		*9*	*13.93*	*−50.882*	*−0.0224*
5.3	Fn.		7	0.31	−51.072	−0.0224
5.6	R.		8	6.59	−51.224	−0.0224
5.9	*Hd.*		*6*	*13.92*	*−51.372*	*−0.0224*
6.3	Hd.		5	0.46	−51.608	−0.0224
8.5	Hd.		8	6.80	−52.890	−0.0222
8.9	*R.*		*7*	*14.21*	*−53.068*	*−0.0221*
9.4	R.		8	1.95	−53.340	−0.0221
9.6	Fn.		8	6.78	−53.403	−0.0221
11.4	Fn.		8	2.35	−54.373	−0.0219
11.6	Hd.		9	6.63	−54.445	−0.0219
11.9	*R.*		*10*	*14.68*	*−54.677*	*−0.0219*
12.3	R.		9	0.93	−54.881	−0.0219
12.6	Fn.		9	7.02	−54.999	−0.0219
12.9	*Hd.*		*11*	*14.69*	*−55.167*	*−0.0219*
13.3	Hd.	EI	7	0.84	−55.416	−0.0219
Dec. 13.6	R.	EI	9	7.09	−55.570	−0.0219
14.9	*Fn.*	WI	*11*	*14.97*	*−56.286*	*−0.0219*
15.3	Fn.		7	1.76	−56.567	−0.0219
15.6	Wy.		7	7.33	−56.713	−0.0219
16.3	R.		8	1.12	−57.041	−0.0220
16.9	*Hd.*		*4*	*14.72*	*−57.376*	*−0.0220*
17.3	Hd.		8	0.88	−57.561	−0.0220
17.9	*Fn.*		*9*	*14.83*	*−57.911*	*−0.0221*
18.3	Fn.		9	1.84	−58.141	−0.0221
18.6	Hd.		9	7.32	−58.266	−0.0221
18.9	*R.*		*8*	*15.35*	*−58.441*	*−0.0222*
19.4	R.		9	2.19	−58.705	−0.0222
19.6	Fn.		8	7.70	−58.817	−0.0222
19.9	*Hd.*		*8*	*15.19*	*−58.948*	*−0.0223*
20.4	Hd.		9	2.28	−59.219	−0.0224
20.6	R.		7	7.66	−59.382	−0.0224
21.9	*Fn.*		*5*	*15.50*	*−60.081*	*−0.0225*
22.3	Fn.		6	1.78	−60.300	−0.0226
23.9	*Hd.*		*6*	*15.33*	*−61.167*	*−0.0227*
26.3	Hd.		4	2.23	−62.499	−0.0229
26.6	Fn.		7	8.10	−62.659	−0.0229
26.9	*Wy.*		*7*	*15.84*	*−62.839*	*−0.0229*
27.4	Wy.		8	3.60	−63.122	−0.0229
28.9	*Fn.*		*6*	*16.67*	*−63.917*	*−0.0229*
Clock set back one minute						
29.3	Fn.		9	2.18	− 4.167	−0.0229
29.6	Hd.		8	9.19	− 4.324	−0.0229
29.9	*Wy.*		*6*	*16.13*	*− 4.476*	*−0.0229*
30.4	Wy.		6	3.67	− 4.784	−0.0229
30.6	Fn.	WI	5	8.12	− 4.873	−0.0229
1914						
Jan. 2.3	Hd.	EI	3	1.97	− 6.233	−0.0227
5.4	R.		8	2.70	− 7.911	−0.0224
5.6	Hd.		8	8.96	− 8.006	−0.0224
5.9	*Fn.*		*4*	*15.95*	*− 8.190*	*−0.0222*
6.3	Fn.		9	2.88	− 8.424	−0.0222
7.3	Hd.		7	2.77	− 8.877	−0.0220
8.3	R.		13	2.98	− 9.472	−0.0219
8.5	Hd.		10	8.81	− 9.573	−0.0219
9.6	R.		8	9.32	−10.144	−0.0217
10.3	Hd.		8	2.08	−10.460	−0.0216
12.3	R.		8	2.60	−11.581	−0.0213
12.9	*Wy.*		*4*	*16.28*	*−11.769*	*−0.0212*
13.4	Wy.		11	4.05	−12.063	−0.0211
14.3	Hd.		9	2.72	−12.551	−0.0210
14.9	*R.*		*3*	*16.33*	*−12.895*	*−0.0209*
15.5	Hd.		8	8.44	−13.218	−0.0208
16.5	Wy.	EI	4	6.52	−13.644	−0.0206
17.6	Wy.	WI	10	9.54	−14.329	−0.0204
18.7	Wy.		3	11.83	−14.885	−0.0203
20.3	Fn.		6	3.15	−15.781	−0.0200
20.9	*Hd.*		*4*	*17.52*	*−16.082*	*−0.0199*
21.4	Hd.		8	4.22	−16.305	−0.0198
21.9	*Hd.*		*5*	*17.14*	*−16.603*	*−0.0198*
22.3	Hd.		8	3.75	−16.816	−0.0197
23.3	Fn.		5	2.74	−17.329	−0.0196
25.3	Fn.		9	3.42	−18.361	−0.0195
26.3	R.		6	4.95	−18.874	−0.0194
27.3	Fn.		10	4.60	−19.371	−0.0194
27.6	R.		8	10.26	−19.474	−0.0194
28.0	*Wy.*		*3*	*19.37*	*−19.661*	*−0.0194*
28.3	Wy.		10	4.73	−19.840	−0.0194
28.6	Fn.		11	11.42	−20.001	−0.0194
28.9	*R.*	WI	*5*	*17.14*	*−20.113*	*−0.0193*

TABLE VI.—*The Adopted Corrections and Rates of the Standard Sidereal Clock*—Continued

Date	Observer	Instrument	No. Stars	Sidereal Time	Clock Correction	Hourly Rate
				h	s	s
Riefler No. 60—Continued						
1914						
Jan. 29.3	R.	WI	8	4.90	−20.339	−0.0193
29.6	Wy.		6	11.43	−20.487	−0.0193
31.4	Wy.		10	5.76	−21.265	−0.0192
31.6	Fn.		9	11.70	−21.384	−0.0192
Feb. *1.9*	*Fn.*		*7*	*17.87*	*−21.962*	*−0.0191*
2.4	Fn.		9	6.12	−22.190	−0.0190
2.6	Hd.	WI	9	10.57	−22.239	−0.0190
3.4	Wy.	EI	7	6.06	−22.527	−0.0188
3.6	Fn.		5	11.88	−22.676	−0.0188
3.9	*Hd.*		*7*	*17.96*	*−22.761*	*−0.0187*
4.4	Hd.		8	5.05	−22.952	−0.0186
7.4	Hd.		9	6.00	−24.286	−0.0182
7.6	Wy.		7	12.24	−24.425	−0.0182
7.8	*Wy.*		*4*	*16.30*	*−24.503*	*−0.0182*
8.9	*Fn.*		*7*	*18.49*	*−24.944*	*−0.0180*
9.3	Fn.		9	5.47	−25.133	−0.0180
9.6	Hd.		7	11.29	−25.234	−0.0180
11.3	Hd.		8	5.54	−25.962	−0.0179
12.3	Fn.	EI	8	5.58	−26.402	−0.0179
14.3	Hd.	WI	6	4.95	−27.385	−0.0180
15.4	Fn.		9	6.49	−27.798	−0.0181
16.3	Fn.		8	6.08	−28.243	−0.0181
17.4	Wy.		8	7.29	−28.706	−0.0181
17.6	Fn.		6	11.32	−28.748	−0.0181
20.9	*Hd.*		*6*	*19.38*	*−30.167*	*−0.0180*
21.3	Hd.		7	6.13	−30.392	−0.0180
21.6	Wy.		4	13.20	−30.572	−0.0180
21.8	*Wy.*	WI	*3*	*17.20*	*−30.625*	*−0.0180*
25.3	Hd.	EI	7	5.54	−32.023	−0.0179
25.9	*Fn.*		*3*	*19.40*	*−32.307*	*−0.0179*
26.4	Fn.		7	7.67	−32.456	−0.0179
26.7	Hd.		9	14.06	−32.579	−0.0179
27.4	Wy.		8	7.40	−32.920	−0.0178
27.7	Fn.	EI	10	14.81	−33.040	−0.0178
Mar. 3.4	Wy.	WI	10	7.17	−34.723	−0.0176
3.6	Fn.		9	14.39	−34.816	−0.0176
4.3	Hd.		8	6.58	−35.116	−0.0176
4.6	Wy.	WI	9	14.72	−35.281	−0.0176
7.3	Hd.	EI	8	6.68	−36.264	−0.0175
7.6	Wy.		10	13.84	−36.386	−0.0175
8.3	Hd.	EI	5	6.18	−36.675	−0.0175
9.3	Fn.	WI	9	7.21	−37.245	−0.0176
9.9	*Wy.*		*5*	*19.72*	*−37.495*	*−0.0176*
10.3	Wy.		9	7.36	−37.683	−0.0176
11.9	*Fn.*		*3*	*20.07*	*−38.325*	*−0.0177*
12.4	Fn.		10	8.68	−38.539	−0.0177
12.6	Hd.		6	13.63	−38.611	−0.0177
12.9	*Wy.*		*2*	*20.25*	*−38.761*	*−0.0177*
13.3	Wy.		10	8.24	−38.917	−0.0177
13.6	Fn.		9	14.46	−39.054	−0.0177
13.9	*Hd.*		*4*	*20.02*	*−39.148*	*−0.0177*
14.4	Hd.		9	9.54	−39.366	−0.0177
14.6	Wy.		10	14.07	−39.498	−0.0177
16.3	Fn.	WI	8	8.02	−40.188	−0.0178
18.3	Hd.	EI	8	7.95	−40.985	−0.0179
20.4	Wy.		7	9.61	−41.886	−0.0179
20.7	Fn.		6	15.23	−41.989	−0.0179
20.9	*Hd.*		*3*	*20.67*	*−42.079*	*−0.0180*
21.3	Hd.		5	7.12	−42.272	−0.0180
22.5	Wy.		9	12.13	−42.769	−0.0180
22.9	*Fn.*		*3*	*20.67*	*−42.938*	*−0.0180*
23.4	Fn.		10	9.44	−43.173	−0.0181
23.6	Hd.		6	15.70	−43.264	−0.0181
23.9	*Wy.*		*8*	*21.01*	*−43.377*	*−0.0181*
24.4	Wy.		10	8.98	−43 591	−0.0181
24.7	Fn.	EI	8	16.31	−43.716	−0.0181
Mar. *24.9*	*Hd.*	EI	*4*	*21.12*	*−43.827*	*−0.0182*
25.3	Hd.		3	8.90	−44.037	−0.0182
26.4	Fn.		10	9.48	−44.504	−0.0182
26.6	Hd.	EI	8	15.49	−44.592	−0.0182
30.8	*Wy.*	WI	*3*	*20.20*	*−46.523*	*−0.0186*
Apr. 1.7	Wy.		6	16.43	−47.394	−0.0186
1.7	*Wy.*		*2*	*18.30*	*−47.378*	*−0.0186*
2.9	*Wy.*		*4*	*21.08*	*−47.890*	*−0.0187*
3.4	Wy.		6	9.47	−48.107	−0.0187
3.6	Fn.		9	15.70	−48.252	−0.0187
3.9	*Hd.*		*4*	*21.05*	*−48.363*	*−0.0188*
4.4	Hd.		9	9.32	−48.578	−0.0188
5.4	Hd.		7	9.93	−49.021	−0.0189
5.8	*Wy.*		*2*	*19.45*	*−49.224*	*−0.0189*
5.9	*Fn.*		*2*	*21.60*	*−49.264*	*−0.0189*
6.4	Fn.		7	10.47	−49.515	−0.0189
6.8	*Wy.*		*3*	*21.20*	*−49.701*	*−0.0190*
8.4	Hd.		5	10.60	−50.433	−0.0191
9.4	Fn.		9	10.53	−50.954	−0.0192
9.8	*Wy.*		*5*	*21.24*	*−51.134*	*−0.0192*
10.4	Wy.	WI	8	10.78	−51.415	−0.0192
11.3	Hd.	EI	4	9.25	−51.760	−0.0193
12.9	*Fn.*		*5*	*22.72*	*−52.497*	*−0.0194*
13.4	Fn.		10	10.55	−52.714	−0.0195
13.8	*Wy.*		*3*	*21.00*	*−52.963*	*−0.0195*
17.4	Wy.		10	11.81	−54.568	−0.0198
17.9	*Hd.*		*7*	*23.01*	*−54.885*	*−0.0198*
18.3	Hd.		3	10.00	−55.035	−0.0198
20.3	Wy.		3	10.27	−56.037	−0.0199
21.3	Hd.		8	10.94	−56.508	−0.0200
22.5	Fn.		4	13.22	−57.074	−0.0200
23.4	Wy.		9	12.70	−57.492	−0.0200
26.4	Hd.	EI	6	11.37	−58.903	−0.0201
Riefler No. 151						
26.8	*Wy.*	EI	*2*	*22.80*	*−32.762*	*−0.0047*
27.4	Wy.		10	13.05	−32.856	−0.0048
27.9	*Hd.*		*4*	*23.70*	*−32.959*	*−0.0049*
28.4	Hd.	EI	5	12.10	−32.967	−0.0050
30.4	Wy.	WI	8	12.75	−33.290	−0.0053
30.9	*Hd.*		*3*	*23.23*	*−33.365*	*−0.0054*
May 1.3	Hd.		2	10.30	−33.383	−0.0055
1.9	*Fn.*		*5*	*0.48*	*−33.421*	*−0.0055*
2.4	Fn.		10	12.23	−33.532	−0.0056
5.4	Hd.		3	13.27	−33.901	−0.0060
6.4	Fn.		8	13.22	−34.089	−0.0061
6.9	*Wy.*		*3*	*23.73*	*−34.177*	*−0.0062*
7.4	Wy.		4	12.42	−34.243	−0.0062
8.9	*Fn.*		*2*	*0.60*	*−34.486*	*−0.0064*
9.5	Fn.		7	14.96	−34.581	−0.0065
10.9	*Hd.*		*5*	*0.20*	*−34.804*	*−0.0067*
11.4	Hd.		8	13.34	−34.869	−0.0067
12.4	Wy.		2	12.05	−34.999	−0.0069
13.9	*Hd.*		*3*	*1.27*	*−35.304*	*−0.0070*
14.3	Hd.		2	11.45	−35.348	−0.0070
14.9	*Wy.*		*5*	*0.80*	*−35.452*	*−0.0070*
15.3	Wy.		9	12.70	−35.532	−0.0071
15.9	*Fn.*		*2*	*0.60*	*−35.628*	*−0.0071*
16.4	Fn.		10	13.82	−35.695	−0.0071
17.9	*Fn.*		*2*	*0.60*	*−36.042*	*−0.0072*
18.4	Fn.		10	14.69	−36.080	−0.0073
18.9	*Wy.*		*2*	*0.60*	*−36.148*	*−0.0073*
19.4	Wy.		10	14.69	−36.252	−0.0074
19.9	*Hd.*		*2*	*0.40*	*−36.340*	*−0.0074*
20.4	Hd.		9	14.00	−36.419	−0.0075
20.9	*Fn.*	WI	*2*	*0.60*	*−36.496*	*−0.0075*

TABLE VI.—*The Adopted Corrections and Rates of the Standard Sidereal Clock*—Continued

Date	Observer	Instrument	No. Stars	Sidereal Time	Clock Correction	Hourly Rate
				h	s	s
Riefler No. 151—Continued						
1914						
May 21.4	Fn.	WI	10	14.41	−36.588	−0.0076
21.9	Wy.	WI	3	1.07	−36.664	−0.0076
22.5	Wy.	EI	9	15.40	−36.662	−0.0077
22.9	Hd.		5	0.80	−36.769	−0.0077
23.4	Hd.		6	13.10	−36.864	−0.0078
25.4	Fn.		7	14.37	−37.265	−0.0081
25.9	Wy.		3	2.43	−37.362	−0.0082
26.4	Wy.		11	15.02	−37.429	−0.0082
26.8	Hd.		4	0.50	−37.506	−0.0082
28.4	Fn.		6	14.18	−37.862	−0.0084
29.4	Hd.		6	13.55	−38.050	−0.0086
31.9	Hd.		6	2.02	−38.579	−0.0088
June 1.9	Fn.		9	3.17	−38.838	−0.0089
2.4	Fn.		12	14.42	−38.923	−0.0091
2.9	Wy.		9	2.89	−38.992	−0.0092
3.4	Wy.		3	14.23	−39.097	−0.0092
4.9	Fn.		3	2.77	−39.469	−0.0092
5.4	Fn.		11	14.50	−39.605	−0.0093
5.8	Wy.		5	1.65	−39.750	−0.0094
6.4	Wy.		13	15.13	−39.772	−0.0094
7.9	Fn.		4	2.35	−40.166	−0.0095
8.4	Fn.		6	14.00	−40.241	−0.0095
9.4	Wy.		7	14.17	−40.430	−0.0096
10.4	Hd.		4	14.30	−40.682	−0.0096
11.0	Fn.		3	5.17	−40.853	−0.0096
11.4	Fn.		8	16.04	−40.956	−0.0096
11.9	Hd.		6	2.65	−41.028	−0.0096
12.9	Wy.		10	2.89	−41.279	−0.0096
13.4	Wy.		11	15.62	−41.361	−0.0097
14.9	Fn.		2	3.15	−41.732	−0.0097
15.4	Fn.		9	16.02	−41.884	−0.0097
15.9	Hd.		10	2.61	−41.985	−0.0098
16.4	Hd.		12	15.54	−42.060	−0.0098
16.9	Wy.		10	2.82	−42.145	−0.0099
17.4	Wy.		12	15.98	−42.258	−0.0099
17.8	Fn.	EI	7	1.81	−42.402	−0.0100
19.9	Wy.	WI	10	2.80	−42.980	−0.0101
20.4	Wy.		8	15.50	−43.171	−0.0101
23.0	Hd.		5	5.26	−43.711	−0.0104
23.4	Hd.		11	15.82	−43.890	−0.0104
23.9	Wy.		10	3.24	−44.006	−0.0106
24.4	Wy.		10	15.53	−44.174	−0.0106
25.4	Fn.		4	16.48	−44.456	−0.0107
25.9	Hd.		3	5.17	−44.550	−0.0107
26.9	Wy.		3	4.10	−44.866	−0.0108
27.4	Wy.		10	17.26	−44.944	−0.0108
28.9	Fn.		5	3.36	−45.383	−0.0110
29.4	Fn.		9	16.30	−45.503	−0.0110
29.9	Hd.		10	4.03	−45.610	−0.0111
30.4	Hd.		10	16.19	−45.755	−0.0112
30.8	Wy.		3	1.47	−45.845	−0.0112
July 2.4	Fn.		9	16.30	−46.288	−0.0113
2.9	Hd.		13	3.93	−46.400	−0.0114
3.4	Hd.		8	16.79	−46.561	−0.0114
7.9	Fn.		3	5.17	−47.802	−0.0117
8.4	Fn.		9	16.30	−47.936	−0.0118
9.4	Hd.		9	16.83	−48.246	−0.0119
10.4	Fn.		6	16.93	−48.547	−0.0119
11.0	An.		7	7.33	−48.755	−0.0120
11.4	Hd.		8	17.26	−48.856	−0.0120
14.4	An.		8	16.66	−49.749	−0.0122
Clock dropped 30 seconds						
15.3	An.		3	15.13	−19.991	−0.0123
15.4	Hd.		8	17.26	−20.008	−0.0123
16.4	Fn.	WI	8	18.36	−20.326	−0.0124
Riefler No. 151—Continued						
1914						
July 16.8	Hd.	WI	3	3.67	−20.416	−0.0124
17.4	Hd.	WI	7	17.66	−20.587	−0.0125
18.4	Hd.	EI	10	16.61	−20.786	−0.0126
19.4	Hd.		9	17.23	−21.090	−0.0126
19.9	Fn.		4	4.08	−21.256	−0.0126
20.4	Fn.		9	17.54	−21.420	−0.0127
20.9	Hd.		9	4.58	−21.530	−0.0128
21.4	Hd.		8	17.36	−21.699	−0.0128
21.9	Fn.		8	4.89	−21.889	−0.0129
22.4	Fn.		9	18.34	−22.037	−0.0129
22.9	Hd.		2	4.85	−22.150	−0.0129
26.9	Fn.		6	4.50	−23.396	−0.0132
27.4	Fn.		7	18.21	−23.574	−0.0132
28.4	Hd.		9	17.94	−23.847	−0.0133
28.9	Fn.		11	5.22	−24.016	−0.0133
29.4	Fn.		3	17.37	−24.204	−0.0134
29.9	An.		6	5.02	−24.299	−0.0135
30.9	Fn.		5	5.26	−24.667	−0.0135
31.4	Fn.		8	17.81	−24.861	−0.0136
31.9	An.		2	5.10	−24.930	−0.0136
Aug. 1.4	An.		8	18.71	−25.168	−0.0137
2.9	Fn.		4	5.30	−25.685	−0.0138
3.4	Fn.		9	18.60	−25.871	−0.0139
4.4	Wy.		9	19.28	−26.193	−0.0139
6.4	Fn.		8	19.45	−26.917	−0.0140
6.9	Hd.		7	5.84	−27.046	−0.0140
7.4	Hd.		8	19.05	−27.202	−0.0140
7.8	Wy.		3	5.43	−27.308	−0.0140
8.5	Wy.	EI	9	20.32	−27.569	−0.0140
10.9	Wy.	WI	7	6.04	−28.521	−0.0140
12.9	Hd.		5	6.16	−29.161	−0.0140
13.4	Hd.		9	18.97	−29.367	−0.0141
13.8	Wy.		8	5.76	−29.507	−0.0141
14.4	Wy.		9	18.96	−29.692	−0.0141
15.4	Fn.		9	18.53	−30.012	−0.0142
16.8	Fn.		7	5.84	−30.520	−0.0142
17.4	Fn.		9	19.93	−30.718	−0.0142
17.8	Wy.		7	5.89	−30.854	−0.0142
18.4	Wy.		11	20.00	−31.065	−0.0143
18.8	An.		7	5.79	−31.186	−0.0143
19.4	An.		13	19.56	−31.403	−0.0143
19.9	Fn.		5	6.42	−31.573	−0.0144
20.4	Fn.		12	20.02	−31.748	−0.0144
20.9	Wy.		3	6.20	−31.856	−0.0144
21.9	An.		13	6.51	−32.266	−0.0145
22.4	An.		10	20.28	−32.493	−0.0145
27.4	Fn.		5	19.12	−34.207	−0.0150
29.6	An.		4	23.92	−35.059	−0.0152
30.4	Wy.		14	19.45	−35.326	−0.0153
30.9	Fn.		5	8.26	−35.498	−0.0154
31.4	Fn.		11	20.13	−35.745	−0.0155
31.8	An.		3	6.30	−35.829	−0.0156
Sept. 1.4	An.		11	20.16	−36.108	−0.0156
1.9	Wy.		14	7.23	−36.240	−0.0157
2.4	Wy.		11	20.48	−36.460	−0.0157
3.9	Fn.		7	8.04	−37.056	−0.0160
4.4	Fn.		9	21.42	−37.235	−0.0160
4.9	Wy.		10	8.09	−37.413	−0.0161
5.4	Wy.	WI	9	20.52	−37.603	−0.0161
8.4	Wy.	EI	8	20.21	−38.668	−0.0165
8.9	Fn.		10	9.12	−38.891	−0.0166
9.4	Fn.		8	21.01	−39.119	−0.0166
9.9	An.		10	8.24	−39.242	−0.0166
10.4	An.		9	21.04	−39.427	−0.0166
13.4	Wy.		8	21.64	−40.705	−0.0167
13.9	Fn.	EI	4	9.88	−40.936	−0.0168

TABLE VI.—*The Adopted Corrections and Rates of the Standard Sidereal Clock*—Continued

Date	Observer	Instrument	No. Stars	Sidereal Time	Clock Correction	Hourly Rate
				h	s	s
Riefler No. 151—Continued						
1914						
Sept. 14.4	Fn.	EI	13	20.59	−41.109	−0.0168
14.8	*An.*		*15*	*7.33*	*−41.224*	*−0.0168*
15.3	An.		12	20.20	−41.459	−0.0168
16.4	Wy.		9	21.47	−41.909	−0.0168
17.5	Fn.		10	23.59	−42.373	−0.0169
17.9	*An.*		*8*	*8.99*	*−42.474*	*−0.0169*
18.3	An.		12	19.94	−42.613	−0.0169
19.4	Wy.		14	21.41	−43.128	−0.0170
20.3	Hd.		2	18.60	−43.502	−0.0170
20.3	An.		11	20.89	−43.539	−0.0170
20.9	*Hd.*		*13*	*9.15*	*−43.744*	*−0.0171*
21.4	Hd.		11	21.75	−43.972	−0.0171
21.9	*Wy.*		*12*	*9.69*	*−44.154*	*−0.0172*
22.4	Wy.		9	21.93	−44.372	−0.0172
22.9	*An.*		*11*	*9.35*	*−44.555*	*−0.0172*
23.4	An.		8	22.15	−44.758	−0.0172
23.9	*Hd.*		*3*	*9.03*	*−44.957*	*−0.0172*
25.4	Wy.		10	22.45	−45.618	−0.0173
25.9	*An.*		*10*	*9.33*	*−45.775*	*−0.0174*
26.4	An.	EI	12	22.38	−46.028	−0.0174
27.8	*Wy.*	WI	*6*	*6.92*	*−46.737*	*−0.0175*
27.9	*Hd.*		*9*	*11.18*	*−46.833*	*−0.0175*
28.4	Hd.		11	21.81	−47.009	−0.0175
28.8	*An.*		*2*	*6.65*	*−47.190*	*−0.0175*
29.0	*Wy.*		*9*	*11.48*	*−47.221*	*−0.0176*
29.4	Wy.		13	22.15	−47.428	−0.0176
29.7	*Hd.*		*2*	*6.20*	*−47.572*	*−0.0176*
30.0	*An.*		*10*	*11.38*	*−47.684*	*−0.0177*
30.4	An.		12	21.89	−47.880	−0.0177
30.9	*Hd.*		*7*	*10.17*	*−48.067*	*−0.0178*
Oct. *1.2*	*Wy.*		*2*	*18.65*	*−48.199*	*−0.0178*
1.4	Hd.		11	22.41	−48.273	−0.0179
2.0	*Wy.*		*8*	*11.64*	*−48.513*	*−0.0180*
2.5	Wy.		8	23.80	−48.758	−0.0180
5.0	*Wy.*		*2*	*13.75*	*−49.946*	*−0.0183*
5.3	Hd.		2	19.45	−49.954	−0.0183
5.4	Wy.		11	22.82	−50.040	−0.0183
6.4	Hd.		5	22.76	−50.476	−0.0184
9.4	Hd.		10	23.01	−51.789	−0.0186
10.1	*An.*		*6*	*14.97*	*−52.114*	*−0.0187*
10.4	An.		10	22.84	−52.257	−0.0187
10.7	*Hd.*		*2*	*7.35*	*−52.371*	*−0.0187*
11.9	*Hd.*		*4*	*10.50*	*−52.944*	*−0.0188*
12.4	Hd.		11	23.07	−53.159	−0.0189
12.7	*An.*		*2*	*7.35*	*−53.341*	*−0.0189*
12.9	*Wy.*	WI	*3*	*11.67*	*−53.386*	*−0.0189*
17.1	*An.*	EI	*4*	*15.02*	*−55.129*	*−0.0192*
17.3	Wy.		4	20.02	−55.271	−0.0192
17.4	An.		4	22.78	−55.310	−0.0192
18.9	*Hd.*		*7*	*12.13*	*−56.077*	*−0.0193*
19.3	An.		2	19.45	−56.186	−0.0194
19.4	Hd.		9	23.30	−56.269	−0.0194
19.8	*An.*		*2*	*7.95*	*−56.392*	*−0.0194*
19.9	*Wy.*		*8*	*11.58*	*−56.488*	*−0.0194*
20.3	Hd.		7	21.77	−56.714	−0.0194
20.7	Hd.		2	7.35	−56.923	−0.0194
21.0	*An.*		*13*	*13.34*	*−56.991*	*−0.0194*
21.4	An.		9	23.64	−57.205	−0.0194
22.0	*Hd.*		*9*	*12.68*	*−57.485*	*−0.0194*
22.3	An.		[illegible]	20.15	−57.584	−0.0194
22.4	Hd.		9	23.52	−57.660	−0.0194
23.4	Fn.		11	23.25	−58.177	−0.0194
27.8	*Fn.*		*3*	*9.07*	*−60.230*	*−0.0194*
27.8	*An.*		*3*	*10.50*	*−60.202*	*−0.0195*
28.2	*Wy.*		*3*	*18.67*	*−60.365*	*−0.0195*
28.4	An.	EI	8	0.26	−60.471	−0.0195

Date	Observer	Instrument	No. Stars	Sidereal Time	Clock Correction	Hourly Rate
				h	s	s
Riefler No. 151—Continued						
1914						
Oct. 28.7	Wy.	EI	2	7.00	−60.619	−0.0195
28.8	*Fn.*		*4*	*10.50*	*−60.689*	*−0.0195*
Clock set back one minute						
29.7	An.		2	8.45	− 1.072	−0.0195
29.9	*Hd.*		*6*	*12.83*	*− 1.171*	*−0.0195*
30.3	An.		2	20.65	− 1.310	−0.0196
30.4	Hd.		10	23.89	− 1.406	−0.0196
30.9	*An.*		*9*	*12.26*	*− 1.597*	*−0.0196*
31.3	Fn.		2	20.95	− 1.825	−0.0196
31.4	An.	EI	11	0.33	− 1.865	−0.0196
Nov. *1.8*	*Wy.*	WI	*2*	*10.10*	*− 2.658*	*−0.0196*
1.9	*Fn.*		*3*	*12.37*	*− 2.709*	*−0.0196*
2.2	Wy.		2	20.00	− 2.915	−0.0197
2.4	Fn.		10	23.89	− 2.944	−0.0197
2.8	*Hd.*		*3*	*9.23*	*− 3.135*	*−0.0197*
2.9	*An.*		*6*	*11.73*	*− 3.140*	*−0.0197*
3.2	Hd.		2	20.65	− 3.357	−0.0197
3.4	An.		9	0.74	− 3.436	−0.0197
3.8	Fn.		2	9.00	− 3.593	−0.0197
3.9	*Hd.*		*3*	*12.37*	*− 3.664*	*−0.0197*
4.2	Fn.		2	20.65	− 3.878	−0.0198
4.4	Hd.		11	23.78	− 3.906	−0.0198
4.8	Wy.		2	9.53	− 4.055	−0.0198
4.9	*Fn.*		*5*	*12.84*	*− 4.136*	*−0.0198*
5.2	Wy.		3	20.43	− 4.291	−0.0199
5.4	Fn.		8	0.55	− 4.371	−0.0199
6.4	Wy.		11	1.69	− 4.878	−0.0200
6.9	*Hd.*		*4*	*12.60*	*− 5.111*	*−0.0201*
7.4	Hd.		[illegible]	23.71	− 5.321	−0.0201
9.3	Fn.		2	22.00	− 6.272	−0.0202
9.4	Hd.		8	0.38	− 6.300	−0.0202
9.8	An.		3	9.77	− 6.531	−0.0202
9.9	*Fn.*		*8*	*13.58*	*− 6.592*	*−0.0202*
10.4	Fn.		10	0.51	− 6.782	−0.0203
10.9	*An.*		*3*	*13.23*	*− 7.044*	*−0.0204*
11.3	Hd.		3	21.83	− 7.253	−0.0204
11.4	An.		11	0.85	− 7.308	−0.0204
11.9	*Hd.*		*5*	*13.54*	*− 7.582*	*−0.0204*
12.4	Hd.		2	23.65	− 7.780	−0.0204
12.8	Wy.		2	9.70	− 7.981	−0.0204
12.9	*Fn.*		*6*	*13.82*	*− 8.099*	*−0.0204*
13.4	Fn.		11	0.67	− 8.326	−0.0204
13.7	Hd.		3	9.53	− 8.490	−0.0204
13.9	*An.*	WI	*5*	*12.40*	*− 8.526*	*−0.0204*
16.3	Hd.	EI	6	23.65	− 9.675	−0.0205
16.7	Fn.		2	9.75	− 9.935	−0.0205
16.9	*Wy.*		*5*	*12.16*	*− 9.968*	*−0.0206*
17.3	Fn.		2	21.85	−10.171	−0.0206
17.4	Wy.		7	0.86	−10.161	−0.0206
17.7	Hd.		2	9.85	−10.379	−0.0206
17.9	*Fn.*		*6*	*13.30*	*−10.462*	*−0.0206*
18.2	Hd.		2	21.95	−10.646	−0.0206
18.4	Fn.		8	0.51	−10.737	−0.0206
19.2	Wy.		3	21.73	−11.107	−0.0206
19.4	Hd.		8	0.38	−11.209	−0.0206
19.9	*Wy.*		*8*	*13.38*	*−11.412*	*−0.0206*
20.2	Fn.		2	22.20	−11.660	−0.0206
20.4	Wy.		9	0.36	−11.657	−0.0206
20.7	Wy.		2	9.25	−11.850	−0.0206
20.9	*Fn.*		*8*	*13.28*	*−11.958*	*−0.0206*
21.3	Fn.		9	0.49	−12.190	−0.0207
22.7	Hd.		2	9.90	−12.878	−0.0207
22.9	*Fn.*		*4*	*13.90*	*−12.984*	*−0.0207*
23.2	Hd.		3	22.33	−13.122	−0.0208
23.4	Fn.	EI	8	1.64	−13.199	−0.0208

TABLE VI.—*The Adopted Corrections and Rates of the Standard Sidereal Clock*—Continued

Date	Observer	Instrument	No. Stars	Sidereal Time	Clock Correction	Hourly Rate
				h	s	s
Riefler No. 151—Continued						
1914						
Nov. 23.7	Wy.	EI	4	9.60	−13.320	−0.0208
23.9	*Hd.*		*9*	*13.28*	*−13.441*	*−0.0208*
24.2	Wy.		4	22.32	−13.607	−0.0208
24.4	Hd.		12	1.28	−13.687	−0.0208
25.2	Fn.		4	22.58	−14.154	−0.0209
25.3	Wy.		7	0.71	−14.175	−0.0209
25.8	Fn.		2	10.65	−14.448	−0.0209
25.9	*Wy.*		*6*	*14.07*	*−14.472*	*−0.0209*
26.4	Wy.		9	1.57	−14.689	−0.0210
27.9	*Wy.*		*8*	*13.99*	*−15.438*	*−0.0212*
28.4	Wy.	EI	6	2.52	−15.678	−0.0212
Dec. 2.2	Fn.	WI	3	22.43	−17.884	−0.0216
3.4	Fn.		7	2.31	−18.501	−0.0217
11.9	*An.*		*4*	*14.05*	*−23.017*	*−0.0222*
12.3	An.		9	1.39	−23.267	−0.0222
13.9	*Fn.*		*3*	*14.73*	*−24.108*	*−0.0222*
14.3	Fn.		7	1.03	−24.331	−0.0221
14.7	An.		2	11.75	−24.601	−0.0221
15.9	*An.*		*6*	*14.37*	*−25.146*	*−0.0220*
16.3	An.		9	1.56	−25.412	−0.0219
16.7	Hd.		2	11.75	−25.636	−0.0219
16.9	*Fn.*		*8*	*14.85*	*−25.686*	*−0.0218*
17.3	Fn.		11	1.98	−25.954	−0.0218
17.8	An.		2	12.30	−26.172	−0.0218
17.9	*Hd.*		*9*	*14.73*	*−26.226*	*−0.0217*
18.3	Hd.		8	0.92	−26.429	−0.0216
21.4	Fn.		14	2.24	−28.017	−0.0212
21.7	Hd.		2	11.75	−28.244	−0.0212
22.4	Wy.		9	3.04	−28.517	−0.0210
22.7	Fn.		3	12.33	−28.749	−0.0210
22.8	*Hd.*		*3*	*14.47*	*−28.757*	*−0.0210*
23.3	Hd.		11	2.19	−29.014	−0.0209
25.8	Fn.		2	13.10	−30.282	−0.0207
26.1	*Hd.*		*2*	*20.95*	*−30.425*	*−0.0207*
27.8	Wy.		3	13.03	−31.255	−0.0206
27.9	*Fn.*	WI	*4*	*16.00*	*−31.270*	*−0.0206*
29.9	*An.*	EI	*2*	*15.95*	*−32.127*	*−0.0205*
30.3	An.		9	1.78	−32.361	−0.0205
31.3	Fn.		6	1.93	−32.874	−0.0205
1915						
Jan. *1.9*	*An.*		*3*	*17.63*	*−33.716*	*−0.0205*
2.1	*Wy.*		*2*	*20.95*	*−33.766*	*−0.0205*
3.3	An.		2	1.20	−34.288	−0.0206
4.3	Hd.		10	2.61	−34.834	−0.0206
4.8	An.		3	13.23	−35.005	−0.0206
4.9	*Wy.*		*13*	*16.37*	*−35.102*	*−0.0207*
5.4	Wy.		12	3.37	−35.343	−0.0207
6.9	*Hd.*		*10*	*16.72*	*−36.151*	*−0.0208*
7.4	Hd.		9	3.41	−36.360	−0.0208
7.8	An.		3	13.53	−36.550	−0.0208
7.9	*Wy.*		*20*	*16.64*	*−36.607*	*−0.0208*
8.3	Wy.		11	3.38	−36.821	−0.0208
8.7	Hd.		3	13.03	−37.029	−0.0208
8.9	*An.*		*14*	*16.50*	*−37.076*	*−0.0208*
9.3	An.		11	3.26	−37.316	−0.0207
9.7	Wy.	EI	4	12.65	−37.478	−0.0207
10.3	Wy.	WI	12	3.18	−37.994	−0.0207
10.8	Fn.		2	13.55	−38.257	−0.0207
12.9	*An.*		*9*	*15.68*	*−39.221*	*−0.0205*
13.3	An.		12	3.19	−39.480	−0.0204
13.8	Fn.		2	14.00	−39.712	−0.0204
13.9	*Hd.*		*8*	*16.12*	*−39.745*	*−0.0203*
14.3	Hd.		11	3.63	−39.955	−0.0203
14.8	An.		3	13.53	−40.181	−0.0203
14.9	*Fn.*	WI	*13*	*16.92*	*−40.253*	*−0.0203*
Riefler No. 151—Continued						
1915						
Jan. 15.4	Fn.	WI	10	3.89	−40.488	−0.0203
15.8	Hd.		2	14.25	−40.708	−0.0203
15.9	*An.*		*6*	*18.50*	*−40.731*	*−0.0202*
16.4	An.	WI	10	6.00	−40.980	−0.0202
19.9	*Hd.*	EI	*5*	*16.80*	*−42.532*	*−0.0202*
20.9	*Wy.*		*12*	*16.53*	*−43.020*	*−0.0201*
21.3	Wy.		9	4.12	−43.241	−0.0201
21.9	*Fn.*		*8*	*16.65*	*−43.560*	*−0.0202*
25.4	Fn.		5	5.78	−45.304	−0.0202
25.9	*An.*		*5*	*18.34*	*−45.504*	*−0.0202*
26.3	An.		8	3.65	−45.680	−0.0202
28.3	Fn.		8	4.12	−46.690	−0.0203
28.9	*Wy.*		*12*	*17.94*	*−46.979*	*−0.0204*
29.3	Wy.		9	4.13	−47.153	−0.0204
29.8	*Fn.*	EI	*2*	*15.60*	*−47.414*	*−0.0204*
Riefler No. 60						
Mar. *28.9*	*Fn.*	EI	*2*	*21.45*	*−15.114*	*+0.0006*
29.3	*An.*		*2*	*6.65*	*−15.064*	*+0.0006*
29.4	Fn.		7	11.23	−15.101	+0.0006
29.8	*Wy.*		*4*	*20.45*	*−15.099*	*+0.0005*
30.3	Fn.		2	7.30	−15.077	+0.0005
30.4	Wy.		10	9.77	−15.059	+0.0005
30.8	*Fn.*		*2*	*19.45*	*−15.092*	*+0.0005*
30.9	*An.*		*12*	*21.52*	*−15.072*	*+0.0005*
31.3	*Wy.*		*2*	*6.65*	*−14.967*	*+0.0005*
31.4	An.		8	10.45	−15.020	+0.0005
31.9	*Fn.*		*6*	*21.20*	*−15.070*	*+0.0005*
Apr. *1.2*	*An.*		*3*	*6.53*	*−15.004*	*+0.0004*
1.4	Fn.		6	9.48	−15.071	+0.0004
4.2	*Wy.*		*3*	*6.37*	*−14.979*	*+0.0002*
6.2	*Hd.*		*3*	*6.60*	*−15.051*	*+0.0001*
6.5	Wy.		9	12.02	−15.020	+0.0001
6.7	Hd.		2	18.30	−15.066	+0.0001
6.8	*An.*		*3*	*21.80*	*−15.000*	*+0.0001*
7.2	*Wy.*		*3*	*6.37*	*−15.031*	*+0.0001*
7.4	An.		8	10.66	−15.019	+0.0001
7.9	*Hd.*		*8*	*21.99*	*−15.015*	*+0.0001*
8.2	*An.*		*3*	*6.53*	*−15.023*	*+0.0001*
8.4	Hd.		9	10.60	−15.022	0.0000
8.7	An.		2	18.30	−15.023	0.0000
10.4	An.	EI	6	10.53	−15.006	0.0000
12.3	Hd.	WI	5	9.14	−15.163	−0.0001
12.9	*Fn.*		*4*	*23.02*	*−15.149*	*−0.0001*
13.4	Fn.		9	10.50	−15.173	−0.0001
13.9	*An.*		*9*	*22.17*	*−15.201*	*0.0000*
14.3	An.		8	10.06	−15.211	0.0000
14.9	*Hd.*		*7*	*22.87*	*−15.170*	*0.0000*
15.4	Hd.		8	10.76	−15.168	0.0000
15.8	*Fn.*		*5*	*22.16*	*−15.115*	*0.0000*
17.3	An.		9	10.54	−15.164	+0.0001
19.4	Fn.		8	11.29	−15.118	+0.0003
20.9	*An.*		*4*	*22.88*	*−15.100*	*+0.0005*
21.4	An.		8	10.34	−15.129	+0.0006
23.5	Wy.		5	14.14	−15.091	+0.0009
23.8	*An.*		*3*	*22.57*	*−15.173*	*+0.0009*
24.3	An.	WI	9	11.46	−15.068	+0.0010
26.5	Fn.	EI	9	15.33	−14.916	+0.0012
26.9	*Wy.*		*3*	*23.27*	*−14.860*	*+0.0012*
27.8	*Hd.*		*2*	*22.35*	*−14.864*	*+0.0013*
29.9	*Wy.*		*7*	*23.76*	*−14.803*	*+0.0013*
30.4	Wy.		7	11.76	−14.768	+0.0013
30.9	*Hd.*		*7*	*23.46*	*−14.772*	*+0.0012*
May 2.4	Hd.		6	11.30	−14.718	+0.0011
3.5	Fn.		4	14.72	−14.720	+0.0010
4.5	Wy.	EI	6	14.22	−14.627	+0.0009

TABLE VI.—*The Adopted Corrections and Rates of the Standard Sidereal Clock*—Continued

Date	Observer	Instrument	No. Stars	Sidereal Time	Clock Correction	Hourly Rate
				h	s	s
Riefler No. 60—Continued						
1915						
May 5.4	Hd.	EI	11	13.10	−14.641	+0.0008
5.9	*Fn.*		*5*	*23.50*	*−14.680*	*+0.0008*
6.4	Fn.		9	12.03	−14.658	+0.0008
8.4	Hd.		10	12.83	−14.586	+0.0006
9.6	Wy.		10	16.32	−14.529	+0.0005
9.8	*Hd.*		*4*	*22.88*	*−14.579*	*+0.0005*
10.4	Hd.		8	12.21	−14.576	+0.0005
11.4	Fn.	EI	7	12.39	−14.580	+0.0004
12.9	*Hd.*	WI	*2*	*0.60*	*−14.660*	*+0.0004*
13.4	Hd.		5	11.92	−14.608	+0.0004
14.0	*Fn.*		*2*	*2.80*	*−14.700*	*+0.0004*
14.4	Fn.		12	13.08	−14.621	+0.0004
14.9	*Wy.*		*2*	*0.10*	*−14.630*	*+0.0004*
15.4	Wy.	WI	9	13.04	−14.567	+0.0004
17.4	Hd.	EI	8	13.06	−14.431	+0.0004
17.9	*Wy.*		*5*	*0.46*	*−14.372*	*+0.0004*
18.9	*Fn.*		*2*	*0.60*	*−14.446*	*+0.0004*
19.4	Fn.	EI	10	14.15	−14.423	+0.0004
21.4	Wy.	WI	7	13.10	−14.489	+0.0004
22.9	*Wy.*		*4*	*1.80*	*−14.502*	*+0.0004*
23.4	Wy.		5	12.16	−14.475	+0.0004
24.9	*Fn.*		*8*	*2.01*	*−14.500*	*+0.0004*
25.4	Fn.		7	12.99	−14.457	+0.0004
26.3	*An.*		*3*	*10.50*	*−14.434*	*+0.0004*
26.9	*Wy.*		*12*	*2.07*	*−14.454*	*+0.0005*
27.4	Wy.		10	13.48	−14.417	+0.0005
31.0	*Wy.*		*8*	*4.41*	*−14.403*	*+0.0005*
31.4	Wy.		10	15.28	−14.397	+0.0005
June 4.5	An.		10	15.96	−14.332	+0.0006
4.9	*Hd.*	WI	*6*	*2.18*	*−14.354*	*+0.0006*
6.9	*Fn.*	EI	*4*	*1.25*	*−14.144*	*+0.0006*
7.3	Fn.		4	13.65	−14.171	+0.0006
7.9	*Hd.*		*13*	*3.58*	*−14.143*	*+0.0006*
8.4	Hd.		9	14.61	−14.159	+0.0006
8.9	*An.*		*10*	*2.44*	*−14.098*	*+0.0006*
9.4	An.		14	15.81	−14.094	+0.0006
9.9	*Fn.*		*8*	*2.31*	*−14.089*	*+0.0006*
10.4	Fn.	EI	11	15.35	−14.111	+0.0006
11.0	*Hd.*	WI	*7*	*4.63*	*−14.214*	*+0.0006*
11.9	*An.*		*7*	*2.53*	*−14.271*	*+0.0006*
12.4	An.		10	15.53	−14.217	+0.0006
14.0	*Fn.*		*3*	*5.17*	*−14.225*	*+0.0006*
15.0	*Hd.*		*2*	*5.50*	*−14.149*	*+0.0006*
15.8	*Wy.*		*5*	*1.58*	*−14.194*	*+0.0006*
17.4	Fn.		11	15.40	−14.209	+0.0006
17.9	*Hd.*		*6*	*3.10*	*−14.216*	*+0.0006*
18.4	Hd.		10	15.71	−14.192	+0.0005
19.0	*Wy.*		*4*	*4.98*	*−14.196*	*+0.0005*
19.4	Wy.	WI	9	15.24	−14.153	+0.0005
20.4	An.	EI	9	15.62	−14.032	+0.0004
22.4	Wy.		9	16.21	−14.034	+0.0003
22.9	*An.*		*8*	*2.66*	*−14.045*	*+0.0001*
23.9	*Fn.*		*6*	*2.30*	*−14.059*	*+0.0001*
24.4	Fn.		10	16.23	−14.023	+0.0001
24.9	*Wy.*		*8*	*3.35*	*−13.973*	*+0.0001*
25.4	Wy.		9	15.79	−13.976	0.0000
27.4	Hd.		9	15.66	−14.039	−0.0003
27.9	*Wy.*		*11*	*3.69*	*−14.002*	*−0.0004*
28.4	Wy.		7	16.36	−14.000	−0.0004
28.9	*Hd.*		*13*	*3.85*	*−14.020*	*−0.0005*
29.4	Hd.	EI	5	16.40	−14.017	−0.0005
30.9	*Wy.*	WI	*3*	*3.70*	*−14.141*	*−0.0006*
July *1.9*	*Hd.*		*3*	*3.20*	*−14.187*	*−0.0006*
2.5	Hd.		8	17.56	−14.170	−0.0006
2.8	*An.*	WI	*3*	*2.37*	*−14.129*	*−0.0006*
Riefler No. 60—Continued						
1915						
July 5.4	Hd.	WI	8	15.81	−14.213	−0.0005
5.9	*Fn.*		*9*	*4.18*	*−14.198*	*−0.0005*
6.4	Fn.		11	16.55	−14.237	−0.0004
6.8	*An.*		*5*	*2.50*	*−14.203*	*−0.0004*
8.4	Hd.		7	17.76	−14.233	−0.0004
8.9	*Fn.*		*11*	*4.44*	*−14.239*	*−0.0004*
9.4	Fn.		12	17.70	−14.253	−0.0005
11.4	Fn.		9	16.66	−14.281	−0.0006
11.9	*Hd.*		*2*	*3.80*	*−14.300*	*−0.0006*
12.4	Hd.		8	17.35	−14.306	−0.0007
13.5	Fn.		10	18.76	−14.296	−0.0008
13.9	*An.*		*7*	*4.17*	*−14.339*	*−0.0009*
14.4	An.		12	17.82	−14.364	−0.0009
14.9	*Hd.*		*3*	*4.47*	*−14.375*	*−0.0009*
15.9	*Fn.*		*4*	*5.10*	*−14.398*	*−0.0009*
16.4	Fn.		9	17.72	−14.384	−0.0010
16.8	*An.*		*8*	*3.58*	*−14.366*	*−0.0010*
17.4	An.	WI	14	18.26	−14.388	−0.0011
18.9	*Fn.*	EI	*2*	*4.85*	*−14.368*	*−0.0012*
20.5	Hd.		9	19.33	−14.343	−0.0012
20.9	*An.*		*4*	*5.12*	*−14.315*	*−0.0012*
21.4	An.		6	17.18	−14.362	−0.0012
21.9	*Fn.*		*2*	*4.85*	*−14.462*	*−0.0012*
22.4	Fn.		9	18.44	−14.394	−0.0012
23.4	Hd.		10	17.21	−14.428	−0.0012
23.9	*An.*		*5*	*5.14*	*−14.404*	*−0.0012*
24.4	An.		10	17.82	−14.450	−0.0012
25.9	*Fn.*		*4*	*5.20*	*−14.553*	*−0.0012*
26.4	Fn.		6	18.55	−14.522	−0.0012
26.9	*Hd.*		*2*	*6.10*	*−14.536*	*−0.0011*
27.4	Hd.		9	17.21	−14.552	−0.0011
29.9	*Hd.*		*7*	*5.54*	*−14.595*	*−0.0010*
30.9	*An.*		*8*	*4.99*	*−14.556*	*−0.0009*
31.5	An.		8	19.76	−14.593	−0.0009
Aug. *2.9*	*An.*		*3*	*6.27*	*−14.640*	*−0.0008*
3.9	*Hd.*		*9*	*5.98*	*−14.740*	*−0.0008*
5.4	Fn.		6	18.93	−14.789	−0.0007
5.9	*An.*		*5*	*5.52*	*−14.749*	*−0.0007*
7.4	An.		7	18.31	−14.716	−0.0006
9.5	Fn.		11	20.35	−14.795	−0.0006
10.4	An.		10	19.21	−14.801	−0.0006
12.5	Fn.		12	20.18	−14.844	−0.0006
12.9	*An.*		*10*	*6.35*	*−14.824*	*−0.0006*
13.5	An.		13	20.55	−14.853	−0.0006
13.9	*Wy.*		*5*	*6.32*	*−14.853*	*−0.0007*
14.5	Wy.		8	20.81	−14.880	−0.0007
15.4	Wy.		9	19.31	−14.912	−0.0007
16.5	Fn.	EI	11	21.16	−14.949	−0.0008
17.4	An.	WI	13	20.82	−15.101	−0.0008
17.9	*Wy.*		*6*	*6.68*	*−15.057*	*−0.0009*
18.4	Wy.		12	20.77	−15.075	−0.0009
18.9	*Fn.*		*4*	*6.65*	*−15.074*	*−0.0009*
19.4	Fn.		10	20.66	−15.093	−0.0009
19.9	*An.*		*7*	*6.66*	*−15.086*	*−0.009*
21.4	Wy.		9	20.13	−15.108	−0.0010
22.8	*Wy.*		*4*	*6.30*	*−15.163*	*−0.0010*
23.5	Wy.		9	22.79	−15.177	−0.0010
23.9	*Hd.*		*5*	*6.92*	*−15.252*	*−0.0010*
24.8	*Wy.*		*5*	*6.58*	*−15.254*	*−0.0010*
25.4	Wy.		10	20.44	−15.237	−0.0010
25.8	*Hd.*		*6*	*6.60*	*−15.300*	*−0.0010*
26.4	Hd.		10	19.98	−15.288	−0.0010
31.5	Wy.		9	22.13	−15.382	−0.0010
Sept. 1.4	Hd.		9	21.12	−15.421	−0.0010
2.8	*Hd.*	WI	*7*	*6.80*	*−15.426*	*−0.0010*

TABLE VI.—*The Adopted Corrections and Rates of the Standard Sidereal Clock*—Continued

Date	Observer	Instrument	No. Stars	Sidereal Time	Clock Correction	Hourly Rate
				h	s	s
Riefler No. 60—Continued						
1915						
Sept. 3.4	Hd.	WI	9	20.87	−15.453	−0.0010
3.8	*Wy.*		*2*	*5.50*	*−15.447*	*−0.0010*
7.5	Wy.		10	22.84	−15.576	−0.0011
7.9	*Hd.*		*3*	*7.27*	*−15.577*	*−0.0011*
8.5	Hd.		11	22.26	−15.587	−0.0012
8.9	*Wy.*		*7*	*7.74*	*−15.620*	*−0.0012*
9.4	Wy.		13	20.31	−15.631	−0.0012
9.9	*Hd.*		*11*	*8.05*	*−15.630*	*−0.0013*
10.4	Hd.	WI	11	20.93	−15.647	−0.0013
10.9	*Wy.*	EI	*5*	*9.96*	*−15.565*	*−0.0014*
12.9	*Hd.*		*11*	*8.88*	*−15.638*	*−0.0015*
13.4	Hd.		10	21.26	−15.644	−0.0015
13.9	*Wy.*		*12*	*8.90*	*−15.642*	*−0.0015*
14.4	Wy.		13	21.12	−15.670	−0.0015
14.9	*Hd.*		*7*	*9.89*	*−15.740*	*−0.0016*
15.4	Hd.		10	20.96	−15.726	−0.0016
15.9	*Wy.*		*5*	*8.68*	*−15.726*	*−0.0016*
16.4	Wy.		10	20.51	−15.761	−0.0016
16.9	*Hd.*		*10*	*8.87*	*−15.796*	*−0.0016*
19.9	*Hd.*		*4*	*8.60*	*−15.909*	*−0.0015*
20.4	Hd.		9	20.84	−15.894	−0.0015
21.5	Wy.		6	23.85	−15.925	−0.0015
21.9	*Hd.*		*9*	*9.93*	*−15.972*	*−0.0015*
22.3	Hd.		10	20.57	−15.968	−0.0015
22.6	Wy.		8	2.84	−15.937	−0.0015
22.9	*Hd.*		*12*	*9.42*	*−15.984*	*−0.0014*
23.3	Hd.		9	20.02	−16.000	−0.0014
23.9	*Wy.*		*8*	*10.18*	*−16.040*	*−0.0014*
24.3	Wy.		9	20.79	−16.052	−0.0014
24.6	Hd.		9	2.92	−16.048	−0.0014
24.8	*Wy.*		*7*	*8.07*	*−16.036*	*−0.0014*
25.3	Wy.		8	19.38	−16.039	−0.0014
26.9	*Hd.*		*10*	*9.20*	*−16.112*	*−0.0013*
27.3	Hd.		9	19.93	−16.152	−0.0013
27.5	Wy.		4	0.80	−16.161	−0.0013
27.9	*Fn.*		*10*	*9.20*	*−16.160*	*−0.0012*
28.3	Fn.		10	20.46	−16.197	−0.0012
28.6	Hd.		9	2.38	−16.158	−0.0012
29.6	Fn.		8	2.71	−16.206	−0.0012
29.8	*Hd.*	EI	*3*	*8.93*	*−16.218*	*−0.0012*
Oct. *3.8*	*Wy.*	WI	*9*	*8.13*	*−16.413*	*−0.0011*
4.3	Wy.		6	19.53	−16.429	−0.0011
6.3	Fn.		2	20.15	−16.504	−0.0011
6.5	Hd.		4	0.50	−16.529	−0.0011
7.9	*Hd.*		*7*	*10.60*	*−16.562*	*−0.0012*
8.4	Hd.		7	21.17	−16.569	−0.0012
8.8	*Wy.*		*2*	*7.35*	*−16.575*	*−0.0012*
8.9	*Fn.*		*7*	*9.94*	*−16.588*	*−0.0012*
9.4	Fn.		8	22.19	−16.616	−0.0012
9.6	Hd.		9	2.21	−16.619	−0.0012
10.9	*Fn.*		*7*	*10.19*	*−16.648*	*−0.0014*
11.4	Fn.		7	22.56	−16.672	−0.0014
11.5	Hd.		9	2.30	−16.681	−0.0014
11.9	*Wy.*		*6*	*10.60*	*−16.673*	*−0.0015*
12.4	Wy.		8	22.28	−16.680	−0.0015
12.6	Fn.		9	3.42	−16.671	−0.0015
13.4	Hd.		9	22.24	−16.713	−0.0015
19.3	Hd.		2	20.95	−17.000	−0.0020
21.3	Hd.		6	21.03	−17.116	−0.0021
21.6	Fn.		8	4.54	−17.106	−0.0021
22.6	Hd.		9	3.71	−17.175	−0.0022
22.8	*Fn.*		*5*	*10.10*	*−17.209*	*−0.0022*
23.3	Fn.		8	22.12	−17.199	−0.0022
23.6	Wy.		8	4.42	−17.227	−0.0022
24.9	*Hd.*		*7*	*11.24*	*−17.298*	*−0.0022*
25.3	Hd.	WI	12	22.65	−17.316	−0.0022
Riefler No. 60—Continued						
1915						
Oct. 25.6	Wy.	WI	8	4.41	−17.297	−0.0022
25.8	*Fn.*		*7*	*10.23*	*−17.333*	*−0.0022*
26.9	*Wy.*		*4*	*12.60*	*−17.376*	*−0.0023*
27.4	Wy.		10	23.40	−17.406	−0.0023
27.6	Fn.	WI	9	4.29	−17.423	−0.0023
27.9	*Hd.*	EI	*5*	*11.68*	*−17.308*	*−0.0023*
28.3	Hd.		8	22.60	−17.318	−0.0023
28.6	Wy.		8	4.34	−17.318	−0.0023
29.3	Fn.		10	22.79	−17.389	−0.0023
29.6	Hd.		9	4.14	−17.383	−0.0023
29.9	*Wy.*		*8*	*11.46*	*−17.375*	*−0.0023*
30.4	Wy.		11	0.03	−17.397	−0.0023
30.6	Fn.		8	4.19	−17.429	−0.0023
Nov. 1.4	Fn.		10	23.29	−17.540	−0.0023
1.6	Hd.		11	4.40	−17.512	−0.0023
2.4	Wy.		3	23.20	−17.595	−0.0022
2.9	*Hd.*		*6*	*12.12*	*−17.631*	*−0.0022*
3.4	Hd.		10	0.31	−17.628	−0.0022
3.6	Wy.		9	4.53	−17.630	−0.0022
4.3	Fn.		2	23.40	−17.722	−0.0022
4.9	*Wy.*		*4*	*12.75*	*−17.721*	*−0.0022*
5.4	Wy.		7	0.70	−17.704	−0.0022
5.6	Fn.		9	4.52	−17.724	−0.0022
5.9	*Hd.*		*9*	*12.66*	*−17.772*	*−0.0021*
6.4	Hd.		7	0.21	−17.816	−0.0021
7.6	Hd.	EI	10	4.67	−17.841	−0.0021
9.4	Hd.	WI	10	23.90	−18.042	−0.0021
9.6	Wy.		9	5.31	−18.042	−0.0021
9.9	*Fn.*		*3*	*12.37*	*−18.060*	*−0.0020*
10.4	Fn.		9	0.03	−18.092	−0.0020
10.6	Hd.		10	5.87	−18.111	−0.0020
11.6	Fn.		5	4.48	−18.134	−0.0020
12.9	*Fn.*		*5*	*13.80*	*−18.237*	*−0.0019*
13.4	Fn.		5	23.32	−18.234	−0.0019
15.4	Hd.		5	23.78	−18.333	−0.0018
15.6	Wy.		8	7.15	−18.342	−0.0018
15.9	*Fn.*		*3*	*12.57*	*−18.350*	*−0.0018*
16.4	Fn.		9	0.02	−18.388	−0.0018
16.6	Hd.		9	5.39	−18.372	−0.0018
16.9	*Wy.*		*8*	*13.06*	*−18.400*	*−0.0018*
17.4	Wy.		10	0.28	−18.436	−0.0018
17.6	Fn.		10	5.76	−18.415	−0.0018
17.9	*Hd.*	WI	*9*	*13.41*	*−18.443*	*−0.0018*
19.4	Fn.	EI	8	0.68	−18.377	−0.0018
19.9	*Wy.*		*2*	*13.15*	*−18.408*	*−0.0018*
20.4	Wy.		4	0.62	−18.400	−0.0018
21.9	*Fn.*		*8*	*13.30*	*−18.516*	*−0.0018*
22.3	Fn.		13	0.31	−18.523	−0.0018
22.5	Hd.		9	4.86	−18.514	−0.0018
23.5	Fn.		7	4.61	−18.569	−0.0018
23.9	*Hd.*		*7*	*14.14*	*−18.596*	*−0.0018*
24.4	Hd.		9	1.54	−18.611	−0.0018
24.6	Wy.		11	6.77	−18.598	−0.0018
25.9	*Wy.*		*5*	*14.30*	*−18.682*	*−0.0018*
26.4	Wy.		7	1.33	−18.683	−0.0018
27.6	Wy.		8	6.64	−18.740	−0.0018
29.3	Hd.		9	0.23	−18.843	−0.0019
29.6	Wy.		10	6.61	−18.843	−0.0019
29.9	*Fn.*		*6*	*13.92*	*−18.897*	*−0.0019*
30.4	Fn.		10	1.31	−18.936	−0.0019
30.6	Hd.		11	7.04	−18.911	−0.0019
30.9	*Wy.*		*5*	*14.10*	*−18.918*	*−0.0019*
Dec. 1.2	Wy.		2	22.65	−18.914	−0.0019
2.4	Wy.		4	2.12	−18.989	−0.0019
2.6	Hd.		12	6.83	−18.983	−0.0019
2.9	*Fn.*	EI	*8*	*13.99*	*−19.025*	*−0.0019*

TABLE VI.—*The Adopted Corrections and Rates of the Standard Sidereal Clock*—Continued

Date	Observer	Instrument	No. Stars	Sidereal Time	Clock Correction	Hourly Rate
				h	s	s
Riefler No. 60—Continued						
1915						
Dec. 3.3	Fn.	EI	6	1.50	−19.012	−0.0019
3.8	Wy.		2	11.00	−19.043	−0.0019
3.9	*Hd.*		*7*	*14.53*	*−19.048*	*−0.0019*
4.4	Hd.		5	3.58	−19.053	−0.0019
4.6	Fn.	EI	9	7.17	−19.070	−0.0019
6.3	Fn.	WI	12	1.20	−19.276	−0.0019
6.6	Hd.		10	6.99	−19.305	−0.0019
6.9	*Wy.*		*8*	*14.76*	*−19.333*	*−0.0020*
7.3	Wy.		8	1.55	−19.349	−0.0020
8.2	Hd.		2	22.65	−19.370	−0.0020
8.6	Wy.		11	7.53	−19.407	−0.0020
9.3	Hd.		3	23.47	−19.464	−0.0020
9.6	Fn.		10	7.13	−19.447	−0.0020
9.9	*Wy.*		*5*	*14.10*	*−19.461*	*−0.0020*
10.3	Wy.		7	1.71	−19.502	−0.0020
10.6	Hd.		12	7.35	−19.490	−0.0020
10.9	*Fn.*		*8*	*14.30*	*−19.557*	*−0.0020*
11.4	Fn.		2	2.05	−19.560	−0.0020
14.5	Wy.	WI	5	6.14	−19.703	−0.0020
14.9	*Fn.*		*10*	*14.95*	*−19.728*	*−0.0020*
15.4	Fn.		8	2.00	−19.695	−0.0020
15.8	Wy.		2	11.75	−19.722	−0.0020
18.3	Wy.		2	0.60	−19.858	−0.0021
19.9	*Hd.*		*3*	*14.47*	*−19.935*	*−0.0021*
20.9	*Fn.*		*11*	*15.32*	*−20.019*	*−0.0021*
21.4	Fn.		8	2.22	−20.021	−0.0021
21.6	Hd.		11	7.96	−20.046	−0.0021
22.2	Hd.		3	23.43	−20.052	−0.0021
22.4	Wy.		4	4.98	−20.064	−0.0021
22.5	Fn.		12	7.88	−20.078	−0.0021
22.9	*Wy.*		*8*	*15.30*	*−20.102*	*−0.0021*
23.4	Wy.		7	4.24	−20.098	−0.0021
23.6	Hd.		8	9.61	−20.116	−0.0021
27.3	Wy.	WI	8	2.75	−20.317	−0.0021
1916						
Jan. *2.9*	*Hd.*	EI	*11*	*16.61*	*−20.513*	*−0.0019*
3.3	Hd.		11	3.35	−20.514	−0.0019
3.6	Wy.		8	9.40	−20.514	−0.0019
3.9	*Fn.*		*11*	*16.38*	*−20.545*	*−0.0019*
4.3	Fn.		5	2.78	−20.553	−0.0019
7.6	Wy.		9	9.29	−20.722	−0.0018
7.9	*Hd.*		*8*	*16.94*	*−20.732*	*−0.0018*
8.4	Hd.		12	4.01	−20.720	−0.0018
8.6	Fn.		11	9.60	−20.739	−0.0018
13.9	*Wy.*		*7*	*17.40*	*−21.003*	*−0.0018*
14.3	Wy.		7	2.07	−20.981	−0.0018
14.6	Hd.		11	10.16	−21.028	−0.0018
18.2	Hd.		2	1.20	−21.204	−0.0018
18.9	*Fn.*		*10*	*17.19*	*−21.195*	*−0.0018*
19.2	Wy.		2	1.20	−21.163	−0.0018
19.4	Fn.		8	4.50	−21.215	−0.0018
20.3	Fn.		2	3.50	−21.236	−0.0018
20.6	Wy.		7	10.44	−21.213	−0.0018
20.9	*Hd.*		*11*	*18.38*	*−21.285*	*−0.0018*
23.5	Fn.		12	9.52	−21.406	−0.0019
23.9	*Hd.*		*11*	*18.38*	*−21.440*	*−0.0019*
24.2	*Hd.*		*2*	*1.20*	*−21.419*	*−0.0019*
24.4	Hd.		9	5.34	−21.432	−0.0019
25.3	Fn.		8	4.26	−21.524	−0.0020
25.6	Hd.		6	10.80	−21.538	−0.0020
26.4	Wy.		7	4.89	−21.587	−0.0020
27.3	Wy.		6	4.67	−21.599	−0.0020
31.3	Fn.		2	4.10	−21.825	−0.0019
Feb. *2.9*	*Hd.*		*6*	*18.43*	*−22.000*	*−0.0017*
3.4	Hd.	EI	9	6.17	−22.005	−0.0017
Riefler No. 60—Continued						
1916						
Feb. 3.6	Fn.	EI	13	11.62	−22.012	−0.0017
3.9	*Wy.*		*12*	*18.88*	*−22.029*	*−0.0016*
5.3	Fn.		2	3.50	−22.050	−0.0015
6.9	*Wy.*		*5*	*19.58*	*−22.125*	*−0.0012*
7.4	Wy.		8	7.08	−22.072	−0.0012
7.6	Fn.	EI	10	12.38	−22.085	−0.0012
9.3	Fn.	WI	2	4.60	−22.260	−0.0010
9.5	Hd.		9	11.14	−22.279	−0.0010
9.9	*Fn.*		*4*	*19.00*	*−22.253*	*−0.0009*
10.3	Fn.		9	5.53	−22.251	−0.0008
11.2	*Hd.*		*2*	*2.05*	*−22.290*	*−0.0007*
11.5	Fn.		8	9.64	−22.301	−0.0007
15.4	Fn.		9	6.17	−22.336	−0.0005
15.6	Hd.		8	11.95	−22.343	−0.0005
15.8	*Wy.*		*6*	*18.17*	*−22.332*	*−0.0004*
16.4	Wy.		6	6.83	−22.311	−0.0004
20.9	*Fn.*		*8*	*19.55*	*−22.440*	*−0.0004*
21.3	Fn.		3	5.53	−22.405	−0.0004
27.9	*Fn.*		*6*	*19.10*	*−22.527*	*−0.0009*
28.5	Fn.		3	10.00	−22.537	−0.0009
29.5	Hd.		9	11.46	−22.553	−0.0009
29.9	*Wy.*		*6*	*19.47*	*−22.525*	*−0.0009*
Mar. 3.6	Hd.		10	12.51	−22.621	−0.0010
3.9	*Wy.*		*5*	*19.60*	*−22.587*	*−0.0010*
4.3	Fn.		3	5.90	−22.582	−0.0010
4.5	Wy.		9	10.57	−22.621	−0.0010
5.4	Fn.		8	9.42	−22.602	−0.0010
7.3	Wy.		2	5.50	−22.653	−0.0010
8.8	*Hd.*		*3*	*17.63*	*−22.710*	*−0.0010*
9.3	Hd.		2	5.60	−22.654	−0.0009
9.4	Fn.		6	9.65	−22.682	−0.0009
10.5	Fn.		14	12.08	−22.693	−0.0008
10.9	*Wy.*		*4*	*21.90*	*−22.721*	*−0.0008*
11.2	*Wy.*		*2*	*5.35*	*−22.737*	*−0.0008*
11.5	Wy.		9	10.98	−22.730	−0.0008
16.3	*Hd.*		*3*	*5.37*	*−22.839*	*−0.0008*
16.7	Hd.	WI	3	17.47	−22.828	−0.0008
June *1.2*	*Fn.*	EI	*6*	*10.25*	*−22.339*	*−0.0003*
1.4	Fn.		4	15.58	−22.401	−0.0003
1.9	*Hd.*		*7*	*1.27*	*−22.405*	*−0.0003*
2.2	*Hd.*		*7*	*9.87*	*−22.342*	*−0.0003*
2.4	Hd.		6	13.90	−22.381	−0.0003
5.3	*Hd.*		*4*	*11.58*	*−22.374*	*−0.0002*
8.0	*Hd.*		*3*	*5.47*	*−22.392*	*−0.0001*
11.9	*Wy.*		*5*	*3.16*	*−22.384*	*0.0000*
12.2	*Wy.*		*5*	*10.92*	*−22.378*	*0.0000*
12.4	Wy.		8	14.90	−22.380	0.0000
12.9	*Fn.*		*4*	*2.60*	*−22.449*	*0.0000*
13.3	*Fn.*		*3*	*12.27*	*−22.376*	*0.0000*
13.4	Fn.	EI	7	14.83	−22.428	0.0000
17.4	Wy.	WI	8	15.04	−22.517	0.0000
19.4	Fn.		2	14.45	−22.566	−0.0003
19.8	*Hd.*		*4*	*1.90*	*−22.533*	*−0.0003*
20.3	*Hd.*		*4*	*12.85*	*−22.522*	*−0.0003*
20.4	Hd.		3	14.23	−22.534	−0.0003
21.9	*Fn.*		*6*	*2.68*	*−22.511*	*−0.0005*
22.2	*Fn.*		*11*	*11.57*	*−22.547*	*−0.0005*
22.4	Fn.		6	15.08	−22.557	−0.0005
22.9	*Hd.*		*13*	*3.82*	*−22.567*	*−0.0006*
23.1	*Hd.*		*3*	*7.60*	*−22.593*	*−0.0006*
23.3	*Hd.*		*5*	*13.04*	*−22.558*	*−0.0006*
23.4	Hd.		5	14.92	−22.596	−0.0006
25.9	*Hd.*		*4*	*4.62*	*−22.616*	*−0.0008*
26.2	*Hd.*		*8*	*11.55*	*−22.581*	*−0.0008*
26.4	Hd.		8	15.34	−22.630	−0.0008
27.2	*Wy.*	WI	*7*	*12.11*	*−22.647*	*−0.0008*

TABLE VI.—*The Adopted Corrections and Rates of the Standard Sidereal Clock*—Continued

Date	Observer	Instrument	No. Stars	Sidereal Time	Clock Correction	Hourly Rate
				h	s	s
		Riefler No. 60—Continued				
1916						
June 28.9	Hd.	WI	4	4.38	−22.648	−0.0010
29.2	Hd.		5	12.52	−22.641	−0.0010
29.4	Hd.		8	15.55	−22.670	−0.0010
July 2.9	Wy.		7	4.34	−22.720	−0.0012
3.3	Wy.		2	14.35	−22.736	−0.0012
3.4	Wy.	WI	3	15.87	−22.740	−0.0012
5.9	Wy.	EI	10	4.60	−22.710	−0.0013
6.2	Wy.		9	12.92	−22.691	−0.0013
6.4	Wy.		5	16.00	−22.727	−0.0013
6.9	Fn.		8	4.32	−22.812	−0.0013
7.2	Fn.		10	12.94	−22.766	−0.0013
7.4	Fn.		6	16.25	−22.802	−0.0013
11.3	Fn.		5	14.10	−22.926	−0.0012
11.4	Fn.		5	16.00	−22.960	−0.0012
12.9	Hd.		14	4.55	−22.934	−0.0012
13.3	Hd.		4	14.20	−22.938	−0.0012
13.3	Hd.		3	15.47	−22.960	−0.0012
14.3	Fn.		5	14.10	−22.992	−0.0013
14.4	Fn.		9	16.39	−23.011	−0.0013
17.9	Wy.		6	5.43	−23.099	−0.0018
18.2	Wy.		2	13.15	−23.062	−0.0018
18.4	Wy.		9	16.73	−23.113	−0.0018
19.9	Hd.		5	5.38	−23.179	−0.0020
20.4	Hd.		9	17.26	−23.191	−0.0020
20.8	Wy.		6	2.78	−23.193	−0.0021
21.3	Wy.	EI	3	15.70	−23.201	−0.0021
26.9	Fn.	WI	3	6.23	−23.586	−0.0028
27.3	Fn.		3	14.80	−23.665	−0.0028
27.3	Fn.		5	16.80	−23.670	−0.0028
31.4	Hd.		4	17.38	−24.106	−0.0032
Aug. 1.3	Fn.		4	15.58	−24.222	−0.0034
1.4	Fn.		9	17.83	−24.233	−0.0034
4.3	Fn.		6	14.97	−24.454	−0.0037
4.4	Fn.	WI	3	17.10	−24.467	−0.0037
		Riefler No. 70				
6.4	Hd.	EI	2	18.75	− 0.164	+0.0088
7.2	Wy.		10	14.21	+ 0.016	+0.0087
7.4	Wy.		8	17.95	+ 0.010	+0.0087
8.4	Fn.		5	19.38	+ 0.187	+0.0087
14.2	Fn.		3	13.77	+ 1.462	+0.0084
14.4	Wy.		4	19.13	+ 1.451	+0.0084
16.8	Fn.		4	5.90	+ 1.906	+0.0083
17.2	Fn.		6	15.22	+ 2.007	+0.0083
17.4	Fn.		8	18.48	+ 2.022	+0.0083
17.9	Wy.		5	7.02	+ 2.099	+0.0081
18.3	Wy.		6	18.10	+ 2.244	+0.0081
20.9	Wy.		8	6.42	+ 2.725	+0.0080
21.2	Wy.		4	14.68	+ 2.819	+0.0080
21.4	Wy.		9	19.58	+ 2.798	+0.0080
21.8	Fn.		10	5.94	+ 2.829	+0.0079
22.2	Fn.		8	15.40	+ 2.910	+0.0079
22.4	Fn.	EI	6	19.08	+ 2.949	+0.0079
24.2	Wy.	WI	9	14.39	+ 3.233	+0.0078
24.4	Wy.		5	19.72	+ 3.273	+0.0078
24.8	Fn.		11	6.00	+ 3.346	+0.0078
25.2	Fn.		10	15.39	+ 3.450	+0.0078
25.4	Fn.		5	19.38	+ 3.448	+0.0078
28.4	Wy.		6	19.25	+ 4.049	+0.0078
31.8	Fn.		8	5.89	+ 4.703	+0.0079
Sept. 1.4	Fn.		6	19.00	+ 4.753	+0.0079
3.1	Fn.		2	13.75	+ 5.144	+0.0081
5.1	Wy.		8	14.64	+ 5.518	+0.0083
5.3	Wy.		6	19.13	+ 5.529	+0.0083
7.3	Hd.		7	19.19	+ 5.915	+0.0087
7.6	Wy.	WI	3	2.43	+ 5.960	+0.0087

Date	Observer	Instrument	No. Stars	Sidereal Time	Clock Correction	Hourly Rate
				h	s	s
		Riefler No. 70—Continued				
1916						
Sept. 7.8	Wy.	WI	10	6.72	+ 5.988	+0.0088
10.8	Hd.		11	7.27	+ 6.715	+0.0096
11.2	Hd.		11	15.41	+ 6.825	+0.0096
11.4	Hd.	WI	9	19.58	+ 6.861	+0.0096
17.9	Wy.	EI	2	9.35	+ 8.605	+0.0115
18.1	Wy.		3	13.77	+ 8.660	+0.0116
18.9	Hd.		11	8.56	+ 8.879	+0.0117
19.2	Hd.		10	15.55	+ 8.952	+0.0118
19.3	Hd.		10	20.04	+ 8.955	+0.0119
19.8	Wy.		11	7.37	+ 9.150	+0.0120
20.1	Wy.		11	15.17	+ 9.230	+0.0121
20.3	Wy.		7	19.43	+ 9.281	+0.0121
21.8	Hd.		10	8.16	+ 9.741	+0.0123
22.1	Hd.		11	15.27	+ 9.811	+0.0123
22.3	Hd.		3	18.77	+ 9.864	+0.0124
24.8	Wy.		12	7.63	+10.642	+0.0137
25.3	Wy.		11	20.22	+10.777	+0.0127
25.8	Hd.		8	7.36	+10.909	+0.0128
26.1	Hd.		7	14.80	+11.023	+0.0128
26.3	Hd.	EI	10	20.04	+11.071	+0.0128
28.2	Wy.	WI	6	16.95	+11.552	+0.0128
28.3	Wy.		7	19.87	+11.591	+0.0128
Oct. 1.8	Wy.		9	8.84	+12.628	+0.0127
2.3	Wy.		2	19.75	+12.743	+0.0127
5.3	Hd.		3	19.67	+13.710	+0.0124
6.1	Wy.		6	15.87	+13.914	+0.0123
6.3	Wy.		8	20.91	+14.006	+0.0123
8.9	Hd.		5	10.42	+14.680	+0.0121
10.2	Fn.		8	16.70	+15.024	+0.0120
10.3	Fn.		9	21.32	+15.106	+0.0120
10.8	Fn.		2	7.45	+15.215	+0.0120
12.1	Hd.		10	15.75	+15.671	+0.0119
12.3	Hd.		8	20.76	+15.750	+0.0119
17.1	Fn.		9	16.03	+17.155	+0.0120
17.4	Fn.		11	21.42	+17.183	+0.0120
22.9	Wy.		2	11.45	+18.895	+0.0125
23.1	Wy.		5	16.98	+18.912	+0.0125
23.3	Wy.		6	22.63	+19.008	+0.0125
23.8	Hd.		5	10.42	+19.182	+0.0125
24.0	Hd.		4	15.45	+19.177	+0.0125
24.3	Hd.	WI	8	22.52	+19.292	+0.0125
25.9	Wy.	EI	5	11.00	+19.800	+0.0126
26.1	Wy.		10	17.72	+19.905	+0.0126
26.3	Wy.		7	22.39	+19.959	+0.0126
26.9	Hd.		8	11.41	+20.120	+0.0127
27.1	Hd.		10	17.85	+20.204	+0.0127
27.3	Hd.		7	21.80	+20.259	+0.0127
31.1	Fn.		2	18.05	+21.498	+0.0128
31.3	Fn.		2	20.95	+21.508	+0.0128
Nov. 1.9	Hd.		10	11.82	+22.073	+0.0129
2.2	Hd.		9	18.83	+22.139	+0.0129
2.4	Hd.		7	23.14	+22.193	+0.0129
2.9	Fn.		7	12.20	+22.351	+0.0130
3.1	Fn.		10	18.35	+22.437	+0.0130
3.3	Fn.		6	22.05	+22.507	+0.0130
6.9	Wy.		5	13.28	+23.679	+0.0130
7.2	Wy.		5	19.38	+23.730	+0.0130
7.3	Wy.	EI	6	22.78	+23.783	+0.0130
		Riefler No. 60				
8.9	Wy.	EI	7	12.61	− 9.778	−0.0014
9.2	Wy.		4	19.50	− 9.767	−0.0014
9.3	Wy.		5	21.42	− 9.797	−0.0014
9.9	Fn.		4	13.02	− 9.885	−0.0014
10.1	Fn.		5	18.22	− 9.855	−0.0014
10.3	Fn.	EI	8	22.66	− 9.873	−0.0014

TABLE VI.—*The Adopted Corrections and Rates of the Standard Sidereal Clock*—Continued

Date	Observer	Instrument	No. Stars	Sidereal Time	Clock Correction	Hourly Rate
				h	s	s
Riefler No. 60—Continued						
1916						
Nov. *15.9*	*Wy.*	WI	*6*	*12.57*	*−10.168*	*−0.0014*
16.1	*Wy.*		*5*	*19.38*	*−10.148*	*−0.0014*
16.2	Wy.		4	21.35	−10.167	−0.0014
16.9	*Hd.*		*6*	*13.23*	*−10.155*	*−0.0014*
19.9	*Fn.*		*7*	*12.87*	*−10.254*	*−0.0017*
20.1	*Fn.*		*2*	*19.20*	*−10.217*	*−0.0017*
20.3	Fn.		6	23.05	−10.234	−0.0017
21.3	Hd.		2	22.85	−10.274	−0.0018
21.8	*Hd.*		*2*	*11.20*	*−10.300*	*−0.0018*
23.8	*Fn.*		*4*	*12.08*	*−10.404*	*−0.0019*
24.2	Fn.		7	22.54	−10.419	−0.0019
26.9	*Wy.*		*7*	*13.41*	*−10.504*	*−0.0021*
27.1	*Wy.*		*9*	*19.46*	*−10.540*	*−0.0021*
27.3	Wy.	WI	8	23.51	−10.548	−0.0021
30.8	*Fn.*	EI	*2*	*11.95*	*−10.644*	*−0.0021*
Dec. 1.3	Fn.		2	23.40	−10.686	−0.0021
5.1	*Hd.*		*2*	*18.75*	*−10.876*	*−0.0020*
6.9	*Fn.*		*6*	*14.58*	*−10.956*	*−0.0019*
7.1	*Fn.*		*8*	*19.80*	*−10.950*	*−0.0019*
7.3	Fn.		8	1.52	−10.943	−0.0019
7.8	Hd.		2	11.50	−10.964	−0.0019
7.9	*Hd.*		*6*	*14.73*	*−10.950*	*−0.0019*
8.1	*Hd.*		*9*	*20.18*	*−10.985*	*−0.0019*
12.3	Fn.		2	0.80	−11.186	−0.0018
13.9	*Fn.*		*2*	*15.10*	*−11.246*	*−0.0018*
14.3	Fn.	EI	2	0.60	−11.264	−0.0018
19.1	*Hd.*	WI	*6*	*20.77*	*−11.578*	*−0.0018*
19.3	Hd.		3	0.63	−11.543	−0.0018
22.2	*Hd.*		*5*	*22.44*	*−11.654*	*−0.0020*
25.8	*Fn.*		*9*	*14.93*	*−11.902*	*−0.0023*
26.1	*Fn.*		*4*	*20.32*	*−11.891*	*−0.0023*
26.3	Fn.		4	1.38	−11.917	−0.0023
28.3	Fn.		3	1.53	−12.010	−0.0024
28.9	*Hd.*		*10*	*16.04*	*−12.070*	*−0.0024*
29.1	*Hd.*		*5*	*21.88*	*−12.058*	*−0.0024*
29.3	Hd.		9	3.06	−12.080	−0.0024
1917						
Jan. *1.8*	*Wy.*		*8*	*15.85*	*−12.276*	*−0.0026*
2.1	*Wy.*		*6*	*22.28*	*−12.313*	*−0.0026*
2.4	Wy.	WI	10	3.91	−12.308	−0.0026
6.1	*Hd.*	EI	*2*	*20.95*	*−12.480*	*−0.0027*
8.1	*Wy.*		*5*	*20.98*	*−12.545*	*−0.0028*
8.3	Wy.		5	3.06	−12.545	−0.0028
8.8	*Fn.*		*4*	*14.30*	*−12.631*	*−0.0028*
9.3	Fn.		2	1.30	−12.678	−0.0028
11.0	*Wy.*		*4*	*18.90*	*−12.790*	*−0.0029*
11.4	Wy.		6	5.88	−12.782	−0.0029
12.1	*Fn.*		*8*	*22.30*	*−12.858*	*−0.0029*
17.9	*Fn.*		*7*	*16.96*	*−13.242*	*−0.0028*
18.3	Fn.		9	2.98	−13.259	−0.0028
18.7	Fn.		2	14.00	−13.328	−0.0028
18.9	*Hd.*		*9*	*17.98*	*−13.323*	*−0.0027*
19.1	*Hd.*		*7*	*22.50*	*−13.318*	*−0.0027*
19.4	Hd.		16	4.54	−13.304	−0.0027
28.4	Hd.	EI	3	5.17	−13.931	−0.0030
Mar. *5.8*	*Fn.*	WI	*4*	*17.65*	*−17.339*	*−0.0041*
6.1	*Fn.*		*5*	*1.98*	*−17.356*	*−0.0041*
6.3	Fn.		11	6.85	−17.346	−0.0041
8.7	*Fn.*		*4*	*16.75*	*−17.609*	*−0.0042*
9.3	Fn.	WI	9	6.81	−17.649	−0.0043
12.2	*Hd.*	EI	*9*	*3.53*	*−17.835*	*−0.0044*
12.3	Hd.		6	7.62	−17.845	−0.0044
15.1	*Wy.*		*7*	*2.89*	*−18.104*	*−0.0044*
15.4	Wy.		4	8.82	−18.183	−0.0044
15.9	*Hd.*	EI	*4*	*20.38*	*−18.226*	*−0.0044*

Date	Observer	Instrument	No. Stars	Sidereal Time	Clock Correction	Hourly Rate
				h	s	s
Riefler No. 60—Continued						
1917						
Mar. *18.8*	*Fn.*	EI	*4*	*19.18*	*−18.538*	*−0.0043*
19.2	*Fn.*		*4*	*4.92*	*−18.582*	*−0.0043*
19.4	Fn.		8	8.28	−18.611	−0.0043
20.1	*Hd.*		*8*	*3.84*	*−18.654*	*−0.0043*
20.3	Hd.		7	7.16	−18.655	−0.0043
21.8	*Fn.*		*7*	*19.50*	*−18.859*	*−0.0043*
22.1	*Fn.*		*8*	*3.48*	*−18.843*	*−0.0043*
22.3	Fn.		6	7.10	−18.881	−0.0043
22.8	*Hd.*	EI	*2*	*18.70*	*−18.906*	*−0.0043*
25.3	Hd.	WI	5	8.20	−19.284	−0.0046
25.8	*Wy.*		*3*	*19.67*	*−19.346*	*−0.0046*
28.3	Hd.		5	7.82	−19.649	−0.0048
29.2	*Wy.*		*4*	*6.42*	*−19.696*	*−0.0049*
29.3	Wy.		4	8.75	−19.716	−0.0049
29.8	*Fn.*		*5*	*20.20*	*−19.839*	*−0.0050*
30.2	*Fn.*		*6*	*4.90*	*−19.859*	*−0.0050*
30.3	Fn.		8	8.44	−19.831	−0.0050
Apr. *3.1*	*Hd.*		*8*	*3.89*	*−20.296*	*−0.0051*
3.3	Hd.		5	7.82	−20.347	−0.0051
3.8	*Hd.*		*2*	*19.60*	*−20.412*	*−0.0051*
8.9	*Hd.*		*6*	*23.07*	*−20.969*	*−0.0050*
9.2	*Hd.*		*3*	*5.77*	*−20.983*	*−0.0050*
9.4	Hd.		10	10.98	−21.044	−0.0050
9.9	*Fn.*		*4*	*21.58*	*−21.095*	*−0.0050*
10.2	*Fn.*		*11*	*5.76*	*−21.067*	*−0.0050*
10.4	Fn.		11	10.68	−21.105	−0.0050
13.5	Fn.		2	13.10	−21.488	−0.0049
15.8	*Fn.*		*2*	*21.45*	*−21.734*	*−0.0049*
16.2	*Fn.*		*9*	*5.92*	*−21.762*	*−0.0049*
16.4	Fn.		12	10.72	−21.798	−0.0049
17.1	*Wy.*	WI	*5*	*5.16*	*−21.897*	*−0.0048*
19.4	Fn.	EI	5	12.20	−22.042	−0.0048
22.9	*Wy.*		*7*	*23.06*	*−22.434*	*−0.0048*
23.2	*Wy.*		*11*	*6.16*	*−22.413*	*−0.0048*
23.3	Wy.		4	9.65	−22.501	−0.0048
26.9	*Hd.*		*4*	*23.72*	*−22.879*	*−0.0050*
29.8	*Hd.*		*5*	*22.92*	*−23.258*	*−0.0052*
30.3	*Hd.*		*3*	*9.20*	*−23.264*	*−0.0052*
30.3	Hd.		4	10.68	−23.275	−0.0052
May *1.2*	*Fn.*		*11*	*7.31*	*−23.425*	*−0.0053*
1.4	Fn.		5	11.28	−23.463	−0.0053
3.2	*Hd.*		*9*	*7.19*	*−23.617*	*−0.0053*
3.4	Hd.	EI	8	11.76	−23.678	−0.0053
9.9	*Fn.*	WI	*5*	*23.92*	*−24.641*	*−0.0055*
10.2	*Fn.*		*11*	*8.25*	*−24.633*	*−0.0055*
10.4	Fn.		9	12.61	−24.653	−0.0055
10.9	*Wy.*		*3*	*0.93*	*−24.745*	*−0.0055*
11.3	*Wy.*		*2*	*10.15*	*−24.737*	*−0.0055*
11.4	Wy.		9	12.69	−24.788	−0.0055
14.2	*Wy.*		*9*	*7.43*	*−25.154*	*−0.0056*
14.4	Wy.		8	12.58	−25.162	−0.0056
14.9	*Hd.*		*5*	*0.20*	*−25.258*	*−0.0057*
15.1	*Hd.*		*9*	*7.58*	*−25.271*	*−0.0057*
15.4	Hd.		7	12.21	−25.304	−0.0057
17.9	*Hd.*		*2*	*0.60*	*−25.687*	*−0.0058*
18.1	*Hd.*		*10*	*7.05*	*−25.707*	*−0.0058*
22.4	Fn.		3	13.07	−26.280	−0.0058
25.4	Fn.		2	13.10	−26.687	−0.0059
June *4.2*	*Wy.*		*8*	*9.29*	*−28.202*	*−0.0065*
4.4	Wy.	WI	7	13.87	−28.227	−0.0065
18.9	*Fn.*	WII	*5*	*3.30*	*−30.558*	*−0.0068*
19.4	Fn.		12	14.97	−30.618	−0.0068
20.9	*Wy.*		*4*	*4.08*	*−30.854*	*−0.0069*
21.4	Wy.		9	15.11	−30.944	−0.0069
21.9	*Fn.*		*5*	*3.30*	*−31.101*	*−0.0070*
22.3	*Fn.*	WII	*5*	*11.70*	*−31.085*	*−0.0070*

TABLE VI.—*The Adopted Corrections and Rates of the Standard Sidereal Clock*—Continued

Date	Observer	Instrument	No. Stars	Sidereal Time	Clock Correction	Hourly Rate
				h	s	s
Riefler No. 60—Continued						
1917						
June 22.4	Fn.	WII	9	15.47	−31.133	−0.0070
24.9	*Wy.*		*9*	*3.62*	*−31.535*	*−0.0072*
25.2	*Wy.*		*15*	*10.29*	*−31.581*	*−0.0072*
25.4	Wy.		12	15.76	−31.659	−0.0072
25.8	*Hd.*		*2*	*1.90*	*−31.745*	*−0.0073*
26.4	Hd.	WII	5	15.70	−31.783	−0.0073
27.9	*Wy.*	EII	*7*	*3.29*	*−31.937*	*−0.0074*
28.8	*Hd.*		*4*	*2.02*	*−32.173*	*−0.0074*
July 1.9	*Hd.*		*14*	*3.96*	*−32.702*	*−0.0075*
2.1	*Hd.*		*7*	*9.14*	*−32.723*	*−0.0075*
4.8	*Hd.*		*4*	*2.08*	*−33.227*	*−0.0076*
6.3	*Fn.*		*5*	*14.10*	*−33.476*	*−0.0076*
6.4	Fn.		5	16.06	−33.515	−0.0076
12.4	Fn.		3	16.77	−34.614	−0.0075
16.9	*Wy.*		*8*	*5.60*	*−35.357*	*−0.0074*
27.3	Hd.		7	16.61	−37.271	−0.0072
29.9	*Wy.*		*18*	*5.08*	*−37.659*	*−0.0071*
30.2	*Wy.*		*12*	*13.70*	*−37.745*	*−0.0071*
30.4	Wy.		11	18.53	−37.777	−0.0071
30.9	*Fn.*		*17*	*5.30*	*−37.886*	*−0.0072*
31.2	*Fn.*		*8*	*13.58*	*−37.992*	*−0.0072*
31.4	Fn.	EII	7	17.10	−37.998	−0.0072
Aug. 2.9	*Fn.*	WII	*4*	*7.32*	*−38.548*	*−0.0073*
3.2	*Fn.*		*7*	*14.79*	*−38.622*	*−0.0073*
3.4	Fn.		9	17.83	−38.639	−0.0073
5.8	*Hd.*		*12*	*4.86*	*−39.077*	*−0.0075*
6.2	*Hd.*		*11*	*14.13*	*−39.154*	*−0.0075*
6.3	Hd.		5	17.20	−39.158	−0.0075
7.4	Wy.		7	19.19	−39.360	−0.0076
9.3	*Hd.*		*4*	*16.05*	*−39.733*	*−0.0078*
9.3	Hd.		3	16.93	−39.764	−0.0078
9.9	*Wy.*		*6*	*7.12*	*−39.862*	*−0.0079*
10.2	*Wy.*		*12*	*14.46*	*−39.911*	*−0.0079*
10.4	Wy.		8	18.10	−39.978	−0.0079
12.8	*Fn.*		*8*	*4.84*	*−40.464*	*−0.0082*
13.2	*Fn.*		*6*	*14.48*	*−40.516*	*−0.0082*
13.4	Fn.		10	18.63	−40.574	−0.0082
13.7	Hd.		2	1.90	−40.612	−0.0082
13.8	*Hd.*		*8*	*5.38*	*−40.655*	*−0.0083*
16.9	*Wy.*		*4*	*7.40*	*−41.255*	*−0.0085*
17.1	*Wy.*		*5*	*12.94*	*−41.287*	*−0.0085*
17.3	Wy.		8	18.10	−41.339	−0.0085
17.8	*Wy.*		*13*	*4.85*	*−41.460*	*−0.0085*
19.8	*Fn.*		*13*	*5.58*	*−41.861*	*−0.0086*
20.2	*Fn.*		*6*	*15.37*	*−41.930*	*−0.0086*
20.4	Fn.		9	18.80	−41.995	−0.0086
20.9	*Wy.*		*8*	*6.59*	*−42.102*	*−0.0087*
21.1	*Wy.*		*7*	*13.77*	*−42.086*	*−0.0087*
21.3	Wy.	WII	10	18.67	−42.171	−0.0087
24.9	*Wy.*	EII	*12*	*6.48*	*−42.824*	*−0.0088*
25.2	*Wy.*		*3*	*14.20*	*−42.903*	*−0.0088*
25.3	Wy.		9	18.83	−42.933	−0.0088
Sept. 3.8	*Fn.*		*6*	*6.85*	*−44.992*	*−0.0088*
4.2	*Fn.*		*11*	*15.34*	*−45.051*	*−0.0088*
4.3	Fn.		9	19.24	−45.099	−0.0088
6.4	Wy.		2	20.95	−45.466	−0.0088
6.8	*Hd.*		*5*	*7.18*	*−45.601*	*−0.0087*
10.8	*Fn.*		*12*	*6.27*	*−46.427*	*−0.0083*
11.2	*Fn.*		*12*	*15.53*	*−46.495*	*−0.0083*
11.4	Fn.		8	19.65	−46.553	−0.0083
12.9	*Hd.*		*12*	*7.87*	*−46.813*	*−0.0081*
13.2	*Hd.*		*8*	*15.46*	*−46.877*	*−0.0081*
13.4	Hd.		10	20.04	−46.895	−0.0081
16.8	*Hd.*		*13*	*8.12*	*−47.558*	*−0.0079*
17.1	*Hd.*		*14*	*14.84*	*−47.618*	*−0.0079*
17.3	Hd.	EII	10	20.04	−47.672	−0.0079
Riefler No. 60—Continued						
1917						
Sept. *17.9*	*Wy.*	EII	*12*	*9.12*	*−47.773*	*−0.0079*
18.1	*Wy.*		*3*	*13.63*	*−47.834*	*−0.0079*
18.4	Wy.	EII	16	21.20	−47.858	−0.0079
19.9	*Hd.*	WII	*6*	*8.97*	*−48.270*	*−0.0080*
20.1	*Hd.*		*11*	*15.28*	*−48.307*	*−0.0080*
20.3	Hd.		8	19.65	−48.344	−0.0080
27.1	*Fn.*		*3*	*14.50*	*−49.661*	*−0.0084*
30.8	*Hd.*		*11*	*8.77*	*−50.479*	*−0.0083*
Oct. 1.2	Hd.		2	18.70	−50.545	−0.0083
1.8	*Fn.*		*10*	*8.63*	*−50.666*	*−0.0082*
2.1	*Fn.*		*14*	*15.74*	*−50.716*	*−0.0082*
2.3	Fn.		12	20.42	−50.760	−0.0082
3.9	*Hd.*		*3*	*11.00*	*−51.037*	*−0.0082*
4.3	Hd.		12	21.07	−51.124	−0.0082
4.9	*Fn.*	WII	*5*	*10.34*	*−51.234*	*−0.0081*
7.8	*Hd.*	EII	*5*	*9.44*	*−51.658*	*−0.0079*
11.3	Hd.		5	20.18	−52.299	−0.0077
15.1	*Fn.*		*5*	*16.42*	*−53.025*	*−0.0074*
15.3	Fn.		14	22.00	−53.099	−0.0074
15.8	*Wy.*		*2*	*9.90*	*−53.122*	*−0.0074*
16.3	Wy.		6	22.28	−53.241	−0.0074
21.9	*Hd.*		*7*	*11.00*	*−54.194*	*−0.0071*
22.0	*Hd.*		*3*	*15.30*	*−54.286*	*−0.0071*
22.3	Hd.		10	22.75	−54.280	−0.0071
25.4	Hd.		11	23.00	−54.800	−0.0069
25.8	*Fn.*		*4*	*10.72*	*−54.849*	*−0.0068*
26.1	*Fn.*		*6*	*17.28*	*−54.942*	*−0.0068*
26.4	Fn.		4	23.00	−54.966	−0.0068
31.9	*Hd.*		*5*	*12.32*	*−55.859*	*−0.0067*
Nov. 1.1	*Hd.*		*4*	*17.20*	*−55.913*	*−0.0067*
1.9	*Fn.*		*7*	*11.43*	*−56.024*	*−0.0067*
2.1	*Fn.*		*4*	*18.50*	*−56.074*	*−0.0067*
2.3	Fn.	EII	9	22.98	−56.090	−0.0067
12.0	*Wy.*	WII	*3*	*16.63*	*−57.766*	*−0.0070*
12.4	Wy.		5	0.34	−57.795	−0.0070
14.9	*Wy.*		*2*	*14.45*	*−58.215*	*−0.0070*
16.3	Fn.		2	23.90	−58.528	−0.0070
18.8	*Hd.*		*3*	*11.37*	*−58.980*	*−0.0070*
19.9	*Fn.*		*3*	*14.47*	*−59.153*	*−0.0069*
20.2	*Fn.*		*5*	*19.66*	*−59.207*	*−0.0069*
20.3	Fn.		8	23.58	−59.241	−0.0069
				Clock dropped 16 seconds		
25.9	*Hd.*		*4*	*13.75*	*−43.968*	*−0.0067*
26.9	*Wy.*		*6*	*14.33*	*−44.158*	*−0.0067*
Dec. 1.1	*Hd.*		*2*	*18.75*	*−44.807*	*−0.0068*
6.3	Fn.		8	1.56	−45.673	−0.0069
9.9	*Fn.*		*4*	*14.55*	*−46.302*	*−0.0071*
10.3	Fn.	WII	5	0.78	−46.383	−0.0071
20.1	*Hd.*	EII	*5*	*19.72*	*−47.911*	*−0.0074*
20.3	Hd.		5	1.44	−47.917	−0.0074
20.9	*Wy.*		*6*	*14.82*	*−48.011*	*−0.0074*
23.8	*Fn.*		*3*	*14.50*	*−48.620*	*−0.0074*
26.1	*Hd.*		*2*	*20.95*	*−48.992*	*−0.0074*
26.8	*Fn.*		*2*	*14.00*	*−49.132*	*−0.0074*
27.3	Fn.		3	1.53	−49.210	−0.0075
1918						
Jan. 7.9	*Hd.*		*11*	*16.75*	*−51.283*	*−0.0076*
8.1	*Hd.*		*4*	*22.55*	*−51.340*	*−0.0076*
8.3	Hd.		5	2.66	−51.367	−0.0076
9.8	*Fn.*		*4*	*15.50*	*−51.723*	*−0.0077*
10.1	*Fn.*		*7*	*22.61*	*−51.795*	*−0.0077*
10.4	Fn.		11	4.25	−51.809	−0.0077
12.1	*Wy.*	EII	*2*	*20.95*	*−52.112*	*−0.0078*

TABLE VI.—*The Adopted Corrections and Rates of the Standard Sidereal Clock*—Continued

Date	Observer	Instrument	No. Stars	Sidereal Time	Clock Correction	Hourly Rate
				h	s	s
Riefler No. 60—Continued						
1918						
Jan. *16.9*	*Fn.*	EII	*6*	*17.87*	*−53.055*	*−0.0080*
17.4	Fn.	EII	5	5.16	−53.152	−0.0080
19.2	*Wy.*	WII	*7*	*23.79*	*−53.631*	*−0.0080*
19.3	Wy.		5	2.22	−53.635	−0.0080
21.2	*Fn.*		*4*	*0.00*	*−54.013*	*−0.0080*
21.3	Fn.		5	3.50	−54.008	−0.0080
29.4	Wy.		7	5.67	−55.671	−0.0078
Feb. *3.9*	*Hd.*		*11*	*18.70*	*−56.809*	*−0.0079*
8.2	*Wy.*		*5*	*2.22*	*−57.589*	*−0.0082*
10.9	*Wy.*		*9*	*19.01*	*−58.090*	*−0.0084*
11.2	*Wy.*		*3*	*1.63*	*−58.111*	*−0.0084*
11.3	Wy.		16	6.00	−58.190	−0.0084
12.3	Fn.		7	5.61	−58.352	−0.0084
13.9	*Wy.*		*5*	*19.06*	*−58.709*	*−0.0085*
14.9	*Fn.*		*2*	*19.20*	*−58.929*	*−0.0085*
15.1	*Fn.*		*4*	*1.25*	*−58.914*	*−0.0085*
15.3	Fn.	WII	10	5.05	−59.010	−0.0085
17.9	*Fn.*	EII	*5*	*19.56*	*−59.410*	*−0.0085*
18.1	*Fn.*		*5*	*1.04*	*−59.462*	*−0.0085*
18.3	Fn.		12	5.44	−59.480	−0.0085
20.9	*Fn.*		*3*	*18.67*	*−60.056*	*−0.0085*
21.2	*Fn.*		*4*	*1.70*	*−60.092*	*−0.0085*
21.3	Fn.		9	5.18	−60.077	−0.0085
Clock dropped one minute						
26.9	*Hd.*		*10*	*19.21*	*− 1.279*	*−0.0086*
27.1	*Hd.*		*2*	*0.60*	*− 1.311*	*−0.0087*
28.3	Wy.		13	6.42	− 1.517	−0.0087
28.8	*Hd.*		*2*	*17.30*	*− 1.692*	*−0.0087*
Mar. *3.8*	*Fn.*		*3*	*18.33*	*− 2.317*	*−0.0088*
5.3	Hd.		11	6.52	− 2.582	−0.0088
7.1	*Fn.*		*6*	*3.17*	*− 3.003*	*−0.0088*
7.3	Fn.		8	5.98	− 2.990	−0.0088
7.8	*Wy.*		*9*	*19.58*	*− 3.105*	*−0.0088*
8.1	*Wy.*		*4*	*2.58*	*− 3.210*	*−0.0087*
8.3	Wy.	EII	12	6.53	− 3.206	−0.0087
10.9	*Hd.*	WII	*6*	*20.00*	*− 3.938*	*−0.0086*
11.3	Hd.		4	6.22	− 4.004	−0.0086
11.8	*Fn.*		*2*	*17.45*	*− 4.072*	*−0.0086*
15.2	*Fn.*		*2*	*5.30*	*− 4.802*	*−0.0086*
15.3	Fn.		8	7.55	− 4.838	−0.0086
17.8	*Wy.*		*5*	*19.16*	*− 5.320*	*−0.0086*
18.2	*Wy.*		*3*	*4.43*	*− 5.374*	*−0.0087*
18.3	Wy.		6	7.75	− 5.452	−0.0087
18.8	*Hd.*		*8*	*19.38*	*− 5.575*	*−0.0087*
23.3	*Fn.*		*2*	*6.30*	*− 6.516*	*−0.0089*
25.2	*Fn.*		*9*	*4.66*	*− 6.942*	*−0.0090*
25.3	Fn.		11	8.77	− 7.018	−0.0090
25.8	*Wy.*		*8*	*19.92*	*− 7.150*	*−0.0090*
26.2	*Wy.*		*9*	*5.77*	*− 7.202*	*−0.0090*
27.8	*Fn.*		*5*	*19.30*	*− 7.559*	*−0.0090*
28.2	*Fn.*		*12*	*5.08*	*− 7.551*	*−0.0090*
28.4	Fn.		6	9.35	− 7.615	−0.0090
29.5	Wy.	WII	4	11.58	− 7.864	−0.0090
Apr. *2.2*	*Fn.*	EII	*4*	*5.95*	*− 8.590*	*−0.0089*
2.3	Fn.		6	8.82	− 8.620	−0.0089
4.8	*Fn.*		*8*	*21.15*	*− 9.171*	*−0.0089*
5.2	*Fn.*		*4*	*5.02*	*− 9.237*	*−0.0089*
5.4	Fn.	EII	7	9.11	− 9.284	−0.0089
Clock dropped 16 seconds						

Date	Observer	Instrument	No. Stars	Sidereal Time	Clock Correction	Hourly Rate
				h	s	s
Riefler No. 60—Continued						
1918						
Apr. *15.1*	*Fn.*	EII	*3*	*4.00*	*+ 4.646*	*−0.0092*
15.4	Fn.		5	10.81	+ 4.629	−0.0092
15.9	*Wy.*		*9*	*21.69*	*+ 4.504*	*−0.0092*
21.8	*Fn.*		*4*	*20.55*	*+ 3.114*	*−0.0095*
May *1.8*	*Fn.*		*5*	*22.54*	*+ 0.846*	*−0.0095*
2.4	Fn.		8	11.95	+ 0.732	−0.0095
5.8	*Fn.*		*5*	*23.02*	*− 0.015*	*−0.0096*
6.4	Fn.		3	12.67	− 0.156	−0.0096
7.8	*Fn.*		*4*	*23.15*	*− 0.533*	*−0.0096*
8.4	Fn.		8	11.88	− 0.650	−0.0096
8.8	*Fn.*	EII	*4*	*23.72*	*− 0.783*	*−0.0096*
15.4	Fn.	WII	7	13.59	− 2.315	−0.0098
June *19.1*	*Wy.*		*8*	*9.44*	*−11.201*	*−0.0109*
19.4	Wy.		4	14.85	−11.274	−0.0109
23.9	*Wy.*		*13*	*4.31*	*−12.425*	*−0.0109*
24.4	Wy.		6	14.97	−12.572	−0.0110
26.8	*Wy.*		*2*	*3.25*	*−13.208*	*−0.0110*
27.3	*Wy.*		*2*	*13.55*	*−13.314*	*−0.0110*
27.3	Wy.		4	14.65	−13.335	−0.0110
27.9	*Hd.*		*2*	*5.30*	*−13.502*	*−0.0110*
28.3	*Hd.*		*3*	*13.77*	*−13.576*	*−0.0110*
28.4	Hd.		5	15.12	−13.616	−0.0110
July *1.3*	*Wy.*		*2*	*13.75*	*−14.395*	*−0.0110*
1.4	Wy.		5	15.12	−14.462	−0.0110
1.9	*Hd.*		*15*	*4.29*	*−14.596*	*−0.0110*
2.3	*Hd.*		*3*	*14.17*	*−14.695*	*−0.0110*
2.4	Hd.	WII	7	15.67	−14.712	−0.0110
7.8	*Wy.*	EII	*2*	*1.55*	*−16.032*	*−0.0111*
8.9	*Hd.*		*15*	*4.28*	*−16.375*	*−0.0111*
9.0	*Hd.*		*2*	*7.65*	*−16.451*	*−0.0111*
9.3	*Hd.*		*4*	*14.18*	*−16.458*	*−0.0111*
9.3	Hd.		3	15.47	−16.498	−0.0111
10.9	*Wy.*		*11*	*4.75*	*−16.908*	*−0.0112*
14.9	*Wy.*		*15*	*4.72*	*−17.953*	*−0.0113*
15.3	*Wy.*		*4*	*14.65*	*−18.122*	*−0.0113*
15.4	Wy.		11	17.02	−18.139	−0.0114
15.9	*Hd.*		*15*	*4.35*	*−18.301*	*−0.0114*
16.3	*Hd.*		*6*	*14.28*	*−18.397*	*−0.0115*
16.4	Hd.		9	16.44	−18.431	−0.0115
17.9	*Wy.*		*10*	*4.57*	*−18.837*	*−0.0116*
22.4	Wy.		6	18.42	−20.103	−0.0119
22.8	*Fn.*		*9*	*3.92*	*−20.264*	*−0.0119*
23.3	*Fn.*		*4*	*14.00*	*−20.372*	*−0.0119*
24.9	*Fn.*		*8*	*4.72*	*−20.851*	*−0.0122*
25.4	Fn.	EII	7	18.00	−21.025	−0.0122
31.9	*Fn.*	WII	*3*	*6.93*	*−23.018*	*−0.0124*
Aug. 1.4	Fn.		5	18.34	−23.134	−0.0124
1.8	*Hd.*		*11*	*4.50*	*−23.261*	*−0.0124*
5.4	Wy.		8	18.10	−24.308	−0.0124
7.8	*Wy.*		*5*	*5.48*	*−25.017*	*−0.0124*
8.5	Wy.		7	20.59	−25.223	−0.0124
8.8	*Hd.*		*11*	*4.53*	*−25.344*	*−0.0124*
11.8	*Fn.*		*13*	*5.07*	*−26.234*	*−0.0125*
12.8	*Wy.*		*10*	*5.47*	*−26.535*	*−0.0125*
14.8	*Fn.*		*15*	*5.90*	*−27.177*	*−0.0124*
15.2	*Fn.*		*12*	*15.16*	*−27.251*	*−0.0124*
15.4	Fn.		7	18.44	−27.348	−0.0124
15.8	*Hd.*		*9*	*5.29*	*−27.472*	*−0.0124*
16.3	*Hd.*		*5*	*16.14*	*−27.586*	*−0.0124*
16.3	Hd.	WII	4	17.38	−27.595	−0.0124

TABLE VII.—*The Corrections for Division Errors of Circle A*

[The argument is the reading of the circle under the setting microscope less a multiple of 90°]

	0°	1°	2°	3°	4°	5°	6°	7°	8°
′	″	″	″	″	″	″	″	″	″
0	−0. 01	−0. 06	+0. 14	+0. 12	+0. 26	+0. 03	−0. 01	−0. 09	−0. 39
2	+0. 56	+0. 53	+0. 72	+0. 70	+0. 83	+0. 62	+0. 56	+0. 49	+0. 18
4	−0. 36	−0. 39	−0. 20	−0. 21	−0. 10	−0. 30	−0. 36	−0. 44	−0. 75
6	−0. 61	−0. 62	−0. 44	−0. 45	−0. 34	−0. 55	−0. 61	−0. 69	−1. 01
8	−0. 48	−0. 49	−0. 31	−0. 31	−0. 22	−0. 42	−0. 48	−0. 57	−0. 89
10	−0. 03	−0. 03	+0. 14	+0. 14	+0. 22	+0. 03	−0. 03	−0. 13	−0. 45
12	+0. 55	+0. 56	+0. 72	+0. 73	+0. 79	+0. 61	+0. 55	+0. 44	+0. 12
14	−0. 37	−0. 35	−0. 20	−0. 19	−0. 13	−0. 31	−0. 37	−0. 49	−0. 82
16	−0. 61	−0. 59	−0. 45	−0. 42	−0. 38	−0. 56	−0. 62	−0. 75	−1. 07
18	−0. 48	−0. 45	−0. 32	−0. 29	−0. 25	−0. 43	−0. 49	−0. 63	−0. 96
20	−0. 03	+0. 01	+0. 13	+0. 17	+0. 19	+0. 02	−0. 04	−0. 19	−0. 52
22	+0. 55	+0. 60	+0. 71	+0. 75	+0. 76	+0. 60	+0. 54	+0. 38	+0. 05
24	−0. 37	−0. 32	−0. 21	−0. 16	−0. 17	−0. 32	−0. 38	−0. 55	−0. 88
26	−0. 62	−0. 55	−0. 45	−0. 40	−0. 41	−0. 57	−0. 63	−0. 80	−1. 14
28	−0. 49	−0. 42	−0. 32	−0. 26	−0. 29	−0. 44	−0. 50	−0. 68	−1. 02
30	−0. 04	+0. 04	+0. 13	+0. 19	+0. 15	+0. 01	−0. 05	−0. 24	−0. 58
32	+0. 54	+0. 63	+0. 71	+0. 77	+0. 72	+0. 59	+0. 53	+0. 33	−0. 01
34	−0. 38	−0. 29	−0. 21	−0. 14	−0. 21	−0. 33	−0. 39	−0. 60	−0. 94
36	−0. 63	−0. 52	−0. 45	−0. 38	−0. 45	−0. 58	−0. 64	−0. 85	−1. 20
38	−0. 50	−0. 39	−0. 32	−0. 24	−0. 33	−0. 45	−0. 51	−0. 73	−1. 08
40	−0. 05	+0. 07	+0. 13	+0. 21	+0. 11	0. 00	−0. 06	−0. 29	−0. 64
42	+0. 53	+0. 66	+0. 71	+0. 80	+0. 68	+0. 58	+0. 52	+0. 28	−0. 07
44	−0. 39	−0. 25	−0. 21	−0. 12	−0. 24	−0. 34	−0. 40	−0. 65	−1. 01
46	−0. 63	−0. 49	−0. 46	−0. 35	−0. 49	−0. 59	−0. 65	−0. 90	−1. 26
48	−0. 50	−0. 35	−0. 33	−0. 22	−0. 36	−0. 46	−0. 52	−0. 78	−1. 15
50	−0. 05	+0. 11	+0. 12	+0. 24	+0. 08	−0. 01	−0. 07	−0. 34	−0. 71
52	+0. 53	+0. 70	+0. 70	+0. 82	+0. 65	+0. 57	+0. 51	+0. 23	−0. 14
54	−0. 39	−0. 22	−0. 22	−0. 09	−0. 28	−0. 35	−0. 41	−0. 70	−1. 07
56	−0. 64	−0. 45	−0. 46	−0. 33	−0. 52	−0. 60	−0. 66	−0. 95	−1. 33
58	−0. 51	−0. 32	−0. 33	−0. 19	−0. 40	−0. 47	−0. 53	−0. 83	−1. 21

	9°	10°	11°	12°	13°	14°	15°	16°	17°
′	″	″	″	″	″	″	″	″	″
0	−0. 77	−0. 98	−1. 00	−0. 59	−0. 08	−0. 10	−0. 15	−0. 17	−0. 21
2	−0. 20	−0. 40	−0. 41	+0. 01	+0. 50	+0. 48	+0. 43	+0. 42	+0. 37
4	−1. 13	−1. 32	−1. 31	−0. 90	−0. 42	−0. 44	−0. 49	−0. 50	−0. 56
6	−1. 37	−1. 56	−1. 54	−1. 12	−0. 66	−0. 69	−0. 73	−0. 75	−0. 80
8	−1. 25	−1. 43	−1. 39	−0. 98	−0. 53	−0. 56	−0. 60	−0. 62	−0. 68
10	−0. 81	−0. 98	−0. 93	−0. 51	−0. 08	−0. 11	−0. 15	−0. 17	−0. 23
12	−0. 24	−0. 40	−0. 34	+0. 09	+0. 50	+0. 47	+0. 43	+0. 41	+0. 34
14	−1. 16	−1. 32	−1. 25	−0. 81	−0. 42	−0. 45	−0. 49	−0. 51	−0. 58
16	−1. 41	−1. 57	−1. 47	−1. 04	−0. 67	−0. 69	−0. 74	−0. 75	−0. 83
18	−1. 28	−1. 44	−1. 33	−0. 89	−0. 54	−0. 56	−0. 61	−0. 62	−0. 70
20	−0. 84	−0. 99	−0. 87	−0. 42	−0. 09	−0. 11	−0. 16	−0. 17	−0. 26
22	−0. 27	−0. 41	−0. 28	+0. 18	+0. 49	+0. 47	+0. 42	+0. 41	+0. 32
24	−1. 20	−1. 33	−1. 18	−0. 73	−0. 43	−0. 45	−0. 50	−0. 51	−0. 61
26	−1. 44	−1. 57	−1. 41	−0. 95	−0. 67	−0. 70	−0. 74	−0. 76	−0. 85
28	−1. 32	−1. 44	−1. 26	−0. 81	−0. 54	−0. 57	−0. 61	−0. 63	−0. 73
30	−0. 88	−0. 99	−0. 80	−0. 34	−0. 09	−0. 12	−0. 16	−0. 18	−0. 28
32	−0. 31	−0. 41	−0. 21	+0. 26	+0. 49	+0. 46	+0. 42	+0. 40	+0. 30
34	−1. 23	−1. 33	−1. 11	−0. 64	−0. 43	−0. 46	−0. 50	−0. 52	−0. 63
36	−1. 48	−1. 57	−1. 34	−0. 87	−0. 67	−0. 71	−0. 74	−0. 77	−0. 87
38	−1. 35	−1. 44	−1. 19	−0. 72	−0. 54	−0. 58	−0. 61	−0. 64	−0. 75
40	−0. 91	−0. 99	−0. 73	−0. 25	−0. 09	−0. 13	−0. 16	−0. 19	−0. 30
42	−0. 34	−0. 41	−0. 14	+0. 35	+0. 49	+0. 45	+0. 42	+0. 39	+0. 28
44	−1. 27	−1. 33	−1. 04	−0. 56	−0. 43	−0. 47	−0. 50	−0. 53	−0. 65
46	−1. 51	−1. 58	−1. 27	−0. 78	−0. 68	−0. 72	−0. 74	−0. 78	−0. 89
48	−1. 39	−1. 45	−1. 12	−0. 64	−0. 55	−0. 59	−0. 61	−0. 65	−0. 77
50	−0. 95	−1. 00	−0. 66	−0. 17	−0. 10	−0. 14	−0. 16	−0. 20	−0. 32
52	−0. 38	−0. 42	−0. 07	+0. 43	+0. 48	+0. 44	+0. 42	+0. 38	+0. 26
54	−1. 30	−1. 34	−0. 97	−0. 47	−0. 44	−0. 48	−0. 50	−0. 54	−0. 67
56	−1. 55	−1. 58	−1. 20	−0. 70	−0. 68	−0. 73	−0. 74	−0. 79	−0. 91
58	−1. 42	−1. 45	−1. 05	−0. 55	−0. 55	−0. 60	−0. 61	−0. 66	−0. 79

TABLE VII.—*The Corrections for Division Errors of Circle A*—Continued

[The argument is the reading of the circle under the setting microscope less a multiple of 90°]

	18°	19°	20°	21°	22°	23°	24°	25°	26°
′	″	″	″	″	″	″	″	″	″
0	−0. 34	−0. 03	+0. 08	+0. 09	+0. 28	+0. 56	+0. 65	+0. 24	+0. 47
2	+0. 25	+0. 55	+0. 66	+0. 67	+0. 87	+1. 14	+1. 22	+0. 83	+1. 02
4	−0. 66	−0. 36	−0. 26	−0. 25	−0. 04	+0. 22	+0. 28	−0. 08	+0. 08
6	−0. 89	−0. 60	−0. 50	−0. 48	−0. 27	−0. 01	+0. 03	−0. 32	−0. 19
8	−0. 75	−0. 46	−0. 37	−0. 35	−0. 13	+0. 12	+0. 14	−0. 18	−0. 08
10	−0. 29	−0. 01	+0. 08	+0. 11	+0. 33	+0. 57	+0. 58	+0. 28	+0. 35
12	+0. 30	+0. 57	+0. 66	+0. 70	+0. 92	+1. 15	+1. 15	+0. 87	+0. 91
14	−0. 61	−0. 35	−0. 26	−0. 21	+0. 01	+0. 24	+0. 21	−0. 05	−0. 04
16	−0. 83	−0. 58	−0. 50	−0. 45	−0. 23	0. 00	−0. 04	−0. 28	−0. 30
18	−0. 69	−0. 45	−0. 37	−0. 31	−0. 09	+0. 14	+0. 07	−0. 15	−0. 20
20	−0. 23	0. 00	+0. 08	+0. 15	+0. 37	+0. 59	+0. 51	+0. 31	+0. 23
22	+0. 36	+0. 58	+0. 66	+0. 74	+0. 96	+1. 17	+1. 08	+0. 90	+0. 79
24	−0. 55	−0. 33	−0. 26	−0. 18	+0. 05	+0. 25	+0. 14	−0. 01	−0. 15
26	−0. 78	−0. 57	−0. 50	−0. 41	−0. 18	+0. 02	−0. 11	−0. 25	−0. 42
28	−0. 64	−0. 43	−0. 37	−0. 28	−0. 04	+0. 15	0. 00	−0. 11	−0. 31
30	−0. 18	+0. 02	+0. 08	+0. 18	+0. 42	+0. 60	+0. 44	+0. 35	+0. 12
32	+0. 41	+0. 60	+0. 66	+0. 77	+1. 01	+1. 18	+1. 01	+0. 94	+0. 68
34	−0. 50	−0. 31	−0. 26	−0. 15	+0. 10	+0. 27	+0. 07	+0. 03	−0. 26
36	−0. 73	−0. 55	−0. 50	−0. 38	−0. 13	+0. 03	−0. 18	−0. 21	−0. 53
38	−0. 59	−0. 41	−0. 37	−0. 25	+0. 01	+0. 17	−0. 07	−0. 07	−0. 42
40	−0. 13	+0. 04	+0. 08	+0. 21	+0. 47	+0. 62	+0. 37	+0. 39	+0. 01
42	+0. 46	+0. 62	+0. 66	+0. 80	+1. 06	+1. 20	+0. 94	+0. 98	+0. 57
44	−0. 45	−0. 29	−0. 26	−0. 11	+0. 15	+0. 28	+0. 01	+0. 06	−0. 38
46	−0. 68	−0. 53	−0. 50	−0. 35	−0. 09	+0. 05	−0. 25	−0. 17	−0. 64
48	−0. 54	−0. 39	−0. 37	−0. 21	+0. 05	+0. 18	−0. 13	−0. 04	−0. 54
50	−0. 08	+0. 06	+0. 08	+0. 25	+0. 51	+0. 63	+0. 31	+0. 42	−0. 11
52	+0. 51	+0. 64	+0. 66	+0. 84	+1. 10	+1. 21	+0. 88	+1. 01	+0. 45
54	−0. 40	−0. 27	−0. 26	−0. 08	+0. 19	+0. 30	−0. 06	+0. 10	−0. 49
56	−0. 63	−0. 51	−0. 50	−0. 31	−0. 04	+0. 06	−0. 31	−0. 14	−0. 76
58	−0. 49	−0. 37	−0. 37	−0. 18	+0. 10	+0. 20	−0. 20	0. 00	−0. 65

	27°	28°	29°	30°	31°	32°	33°	34°	35°
′	″	″	″	″	″	″	″	″	″
0	−0. 22	−0. 47	−0. 64	−0. 88	−0. 58	−0. 39	−0. 47	−0. 46	−0. 06
2	+0. 35	+0. 10	−0. 07	−0. 29	+0. 01	+0. 18	+0. 11	+0. 13	+0. 52
4	−0. 58	−0. 82	−1. 00	−1. 20	−0. 91	−0. 74	−0. 81	−0. 77	−0. 40
6	−0. 82	−1. 07	−1. 24	−1. 43	−1. 14	−0. 99	−1. 05	−1. 00	−0. 63
8	−0. 70	−0. 94	−1. 12	−1. 29	−1. 01	−0. 86	−0. 92	−0. 85	−0. 50
10	−0. 26	−0. 50	−0. 68	−0. 83	−0. 55	−0. 41	−0. 47	−0. 39	−0. 05
12	+0. 31	+0. 07	−0. 11	−0. 24	+0. 04	+0. 17	+0. 11	+0. 20	+0. 53
14	−0. 62	−0. 85	−1. 04	−1. 15	−0. 88	−0. 76	−0. 81	−0. 71	−0. 39
16	−0. 86	−1. 10	−1. 28	−1. 38	−1. 11	−1. 00	−1. 04	−0. 93	−0. 62
18	−0. 74	−0. 97	−1. 16	−1. 24	−0. 98	−0. 88	−0. 91	−0. 79	−0. 49
20	−0. 30	−0. 53	−0. 72	−0. 78	−0. 52	−0. 43	−0. 46	−0. 33	−0. 04
22	+0. 27	+0. 04	−0. 15	−0. 19	+0. 07	+0. 15	+0. 12	+0. 26	+0. 54
24	−0. 66	−0. 88	−1. 08	−1. 10	−0. 85	−0. 77	−0. 80	−0. 64	−0. 38
26	−0. 90	−1. 13	−1. 32	−1. 33	−1. 08	−1. 02	−1. 04	−0. 87	−0. 61
28	−0. 78	−1. 00	−1. 20	−1. 19	−0. 95	−0. 89	−0. 91	−0. 72	−0. 48
30	−0. 34	−0. 56	−0. 76	−0. 73	−0. 49	−0. 44	−0. 46	−0. 26	−0. 03
32	+0. 23	+0. 01	−0. 19	−0. 14	+0. 10	+0. 14	+0. 12	+0. 33	+0. 55
34	−0. 70	−0. 91	−1. 12	−1. 05	−0. 82	−0. 78	−0. 80	−0. 57	−0. 37
36	−0. 94	−1. 16	−1. 36	−1. 28	−1. 05	−1. 03	−1. 04	−0. 80	−0. 60
38	−0. 82	−1. 03	−1. 24	−1. 14	−0. 92	−0. 90	−0. 91	−0. 65	−0. 47
40	−0. 38	−0. 59	−0. 80	−0. 68	−0. 46	−0. 45	−0. 46	−0. 19	−0. 02
42	+0. 19	−0. 01	−0. 23	−0. 09	+0. 13	+0. 13	+0. 12	+0. 40	+0. 56
44	−0. 74	−0. 94	−1. 16	−1. 00	−0. 79	−0. 79	−0. 80	−0. 51	−0. 36
46	−0. 99	−1. 18	−1. 40	−1. 23	−1. 02	−1. 04	−1. 04	−0. 73	−0. 59
48	−0. 87	−1. 06	−1. 28	−1. 09	−0. 89	−0. 91	−0. 91	−0. 59	−0. 46
50	−0. 43	−0. 61	−0. 84	−0. 63	−0. 43	−0. 46	−0. 46	−0. 13	−0. 01
52	+0. 14	−0. 04	−0. 27	−0. 04	+0. 16	+0. 12	+0. 12	+0. 46	+0. 57
54	−0. 79	−0. 96	−1. 20	−0. 95	−0. 76	−0. 80	−0. 80	−0. 44	−0. 35
56	−1. 03	−1. 21	−1. 44	−1. 18	−0. 99	−1. 05	−1. 04	−0. 67	−0. 58
58	−0. 91	−1. 08	−1. 32	−1. 04	−0. 86	−0. 92	−0. 91	−0. 52	−0. 45

TABLE VII.—*The Corrections for Division Errors of Circle A*—Continued

[The argument is the reading of the circle under the setting microscope less a multiple of 90°]

	36°	37°	38°	39°	40°	41°	42°	43°	44°
′	″	″	″	″	″	″	″	″	″
0	0.00	−0.03	+0.18	−0.17	−0.35	−0.04	+0.03	+0.41	+0.05
2	+0.58	+0.56	+0.75	+0.39	+0.24	+0.55	+0.62	+0.97	+0.63
4	−0.34	−0.35	−0.18	−0.53	−0.67	−0.37	−0.29	+0.04	−0.29
6	−0.59	−0.59	−0.44	−0.78	−0.90	−0.60	−0.51	−0.22	−0.54
8	−0.46	−0.45	−0.32	−0.65	−0.76	−0.47	−0.37	−0.10	−0.41
10	−0.01	+0.01	+0.12	−0.21	−0.30	−0.02	+0.09	+0.34	+0.04
12	+0.57	+0.60	+0.69	+0.37	+0.29	+0.56	+0.68	+0.91	+0.62
14	−0.35	−0.32	−0.24	−0.56	−0.62	−0.36	−0.22	−0.02	−0.30
16	−0.59	−0.55	−0.50	−0.80	−0.84	−0.59	−0.45	−0.28	−0.55
18	−0.46	−0.42	−0.38	−0.68	−0.70	−0.46	−0.30	−0.16	−0.42
20	−0.01	+0.04	+0.06	−0.23	−0.24	−0.01	+0.16	+0.28	+0.03
22	+0.57	+0.63	+0.63	+0.34	+0.35	+0.57	+0.75	+0.85	+0.61
24	−0.35	−0.28	−0.30	−0.58	−0.56	−0.35	−0.16	−0.08	−0.31
26	−0.60	−0.52	−0.56	−0.83	−0.79	−0.58	−0.38	−0.34	−0.56
28	−0.47	−0.38	−0.44	−0.70	−0.65	−0.45	−0.24	−0.22	−0.43
30	−0.02	+0.08	0.00	−0.26	−0.19	0.00	+0.22	+0.22	+0.02
32	+0.56	+0.67	+0.57	+0.31	+0.40	+0.58	+0.81	+0.79	+0.60
34	−0.36	−0.25	−0.36	−0.61	−0.51	−0.34	−0.10	−0.14	−0.32
36	−0.60	−0.48	−0.62	−0.86	−0.74	−0.57	−0.32	−0.40	−0.57
38	−0.47	−0.35	−0.50	−0.73	−0.60	−0.44	−0.18	−0.28	−0.44
40	−0.02	+0.11	−0.06	−0.29	−0.14	+0.01	+0.28	+0.16	+0.01
42	+0.56	+0.70	+0.51	+0.28	+0.45	+0.59	+0.87	+0.73	+0.59
44	−0.36	−0.21	−0.42	−0.64	−0.46	−0.33	−0.04	−0.20	−0.33
46	−0.61	−0.45	−0.68	−0.89	−0.68	−0.56	−0.26	−0.45	−0.57
48	−0.48	−0.31	−0.56	−0.76	−0.54	−0.43	−0.12	−0.33	−0.44
50	−0.03	+0.15	−0.12	−0.32	−0.08	+0.02	+0.34	+0.11	+0.01
52	+0.55	+0.74	+0.45	+0.25	+0.51	+0.60	+0.93	+0.68	+0.59
54	−0.37	−0.18	−0.48	−0.67	−0.40	−0.32	+0.02	−0.25	−0.33
56	−0.61	−0.41	−0.74	−0.92	−0.63	−0.55	−0.20	−0.51	−0.58
58	−0.48	−0.28	−0.62	−0.79	−0.49	−0.42	−0.06	−0.39	−0.45

	45°	46°	47°	48°	49°	50°	51°	52°	53°
′	″	″	″	″	″	″	″	″	″
0	0.00	−0.18	−0.42	−0.79	−0.98	−0.93	−0.68	−0.67	−0.30
2	+0.57	+0.39	+0.15	−0.22	−0.40	−0.34	−0.10	−0.08	+0.28
4	−0.35	−0.54	−0.78	−1.14	−1.32	−1.25	−1.02	−0.99	−0.64
6	−0.60	−0.78	−1.04	−1.39	−1.55	−1.49	−1.26	−1.21	−0.89
8	−0.47	−0.66	−0.92	−1.26	−1.42	−1.35	−1.13	−1.07	−0.76
10	−0.03	−0.22	−0.48	−0.82	−0.97	−0.89	−0.68	−0.61	−0.31
12	+0.54	+0.35	+0.09	−0.25	−0.39	−0.30	−0.10	−0.02	+0.27
14	−0.38	−0.58	−0.84	−1.17	−1.31	−1.21	−1.02	−0.92	−0.66
16	−0.63	−0.82	−1.10	−1.42	−1.55	−1.44	−1.26	−1.15	−0.90
18	−0.50	−0.70	−0.98	−1.29	−1.42	−1.30	−1.13	−1.00	−0.78
20	−0.06	−0.26	−0.54	−0.85	−0.97	−0.84	−0.68	−0.54	−0.33
22	+0.51	+0.31	+0.03	−0.28	−0.39	−0.25	−0.10	+0.05	+0.25
24	−0.41	−0.62	−0.90	−1.20	−1.31	−1.16	−1.02	−0.86	−0.67
26	−0.66	−0.86	−1.16	−1.45	−1.54	−1.40	−1.26	−1.08	−0.92
28	−0.53	−0.74	−1.04	−1.32	−1.41	−1.26	−1.13	−0.94	−0.79
30	−0.09	−0.30	−0.60	−0.88	−0.96	−0.80	−0.68	−0.48	−0.34
32	+0.48	+0.27	−0.03	−0.31	−0.38	−0.21	−0.10	+0.11	+0.24
34	−0.44	−0.66	−0.96	−1.23	−1.30	−1.12	−1.02	−0.80	−0.68
36	−0.69	−0.90	−1.22	−1.48	−1.53	−1.36	−1.26	−1.02	−0.93
38	−0.56	−0.78	−1.10	−1.35	−1.40	−1.22	−1.13	−0.88	−0.80
40	−0.12	−0.34	−0.66	−0.91	−0.95	−0.76	−0.68	−0.42	−0.35
42	+0.45	+0.23	−0.09	−0.34	−0.37	−0.17	−0.10	+0.17	+0.23
44	−0.47	−0.70	−1.03	−1.27	−1.29	−1.08	−1.02	−0.74	−0.70
46	−0.72	−0.94	−1.28	−1.51	−1.52	−1.32	−1.25	−0.96	−0.94
48	−0.59	−0.82	−1.17	−1.39	−1.39	−1.18	−1.12	−0.82	−0.82
50	−0.15	−0.38	−0.73	−0.95	−0.94	−0.72	−0.67	−0.36	−0.37
52	+0.42	+0.19	−0.16	−0.38	−0.36	−0.13	−0.09	+0.23	+0.21
54	−0.50	−0.74	−1.09	−1.30	−1.28	−1.04	−1.01	−0.68	−0.71
56	−0.75	−0.98	−1.35	−1.55	−1.51	−1.28	−1.25	−0.90	−0.96
58	−0.62	−0.86	−1.23	−1.42	−1.38	−1.14	−1.12	−0.76	−0.83

TABLE VII.—*The Corrections for Division Errors of Circle A*—Continued

[The argument is the reading of the circle under the setting microscope less a multiple of 90°]

	54°	55°	56°	57°	58°	59°	60°	61°	62°
′	″	″	″	″	″	″	″	″	″
0	−0. 38	−0. 46	−0. 08	−0. 04	−0. 63	−0. 83	−0. 86	−0. 51	−0. 04
2	+0. 20	+0. 13	+0. 50	+0. 52	−0. 05	−0. 25	−0. 27	+0. 08	+0. 55
4	−0. 72	−0. 78	−0. 42	−0. 42	−0. 97	−1. 17	−1. 18	−0. 83	−0. 36
6	−0. 97	−1. 00	−0. 65	−0. 68	−1. 22	−1. 41	−1. 40	−1. 05	−0. 58
8	−0. 84	−0. 86	−0. 52	−0. 57	−1. 09	−1. 28	−1. 26	−0. 91	−0. 44
10	−0. 39	−0. 40	−0. 07	−0. 14	−0. 65	−0. 83	−0. 80	−0. 44	+0. 02
12	+0. 19	+0. 19	+0. 51	+0. 42	−0. 08	−0. 25	−0. 21	+0. 16	+0. 61
14	−0. 74	−0. 71	−0. 41	−0. 52	−1. 01	−1. 17	−1. 12	−0. 75	−0. 30
16	−0. 98	−0. 94	−0. 65	−0. 77	−1. 25	−1. 42	−1. 35	−0. 97	−0. 52
18	−0. 86	−0. 79	−0. 52	−0. 66	−1. 13	−1. 29	−1. 21	−0. 83	−0. 38
20	−0. 41	−0. 33	−0. 07	−0. 23	−0. 69	−0. 84	−0. 75	−0. 36	+0. 08
22	+0. 17	+0. 26	+0. 51	+0. 33	−0. 12	−0. 26	−0. 16	+0. 24	+0. 67
24	−0. 75	−0. 65	−0. 41	−0. 61	−1. 04	−1. 18	−1. 07	−0. 67	−0. 24
26	−1. 00	−0. 87	−0. 64	−0. 87	−1. 29	−1. 42	−1. 29	−0. 89	−0. 46
28	−0. 87	−0. 73	−0. 51	−0. 76	−1. 16	−1. 29	−1. 15	−0. 75	−0. 32
30	−0. 42	−0. 27	−0. 06	−0. 33	−0. 72	−0. 84	−0. 69	−0. 28	+0. 14
32	+0. 16	+0. 32	+0. 52	+0. 23	−0. 15	−0. 26	−0. 10	+0. 32	+0. 73
34	−0. 76	−0. 59	−0. 40	−0. 71	−1. 08	−1. 18	−1. 01	−0. 59	−0. 18
36	−1. 01	−0. 81	−0. 63	−0. 97	−1. 32	−1. 43	−1. 23	−0. 81	−0. 40
38	−0. 88	−0. 67	−0. 50	−0. 86	−1. 20	−1. 30	−1. 09	−0. 67	−0. 26
40	−0. 43	−0. 21	−0. 05	−0. 43	−0. 76	−0. 85	−0. 63	−0 20	+0. 20
42	+0. 15	+0. 38	+0. 53	+0. 13	−0. 19	−0. 27	−0. 04	+0. 40	+0. 79
44	−0. 78	−0. 52	−0. 39	−0. 81	−1. 11	−1. 19	−0. 95	−0. 51	−0. 11
46	−1. 02	−0. 75	−0. 63	−1. 06	−1. 36	−1. 43	−1. 18	−0. 73	−0. 34
48	−0. 90	−0. 60	−0. 50	−0. 95	−1. 23	−1. 30	−1. 04	−0. 59	−0. 19
50	−0. 45	−0. 14	−0. 05	−0. 52	−0. 79	−0. 85	−0. 58	−0. 12	+0. 27
52	+0. 13	+0. 45	+0. 53	+0. 04	−0. 22	−0. 27	+0. 01	+0. 48	+0. 86
54	−0. 79	−0. 46	−0. 39	−0. 90	−1. 15	−1. 19	−0. 90	−0. 43	−0. 05
56	−1. 04	−0. 68	−0. 62	−1. 16	−1. 39	−1. 44	−1. 12	−0. 65	−0. 27
58	−0. 91	−0. 54	−0. 49	−1. 05	−1. 27	−1. 31	−0. 98	−0. 51	−0. 13

	63°	64°	65°	66°	67°	68°	69°	70°	71°
′	″	″	″	″	″	″	″	″	″
0	+0. 33	+0. 50	+0. 92	+0. 76	+0. 87	+0. 66	+0. 54	+0. 10	+0. 23
2	+0. 92	+1. 09	+1. 49	+1. 34	+1. 44	+1. 24	+1. 11	+0. 68	+0. 81
4	0. 00	+0. 19	+0. 57	+0. 43	+0. 51	+0. 31	+0. 17	−0. 23	−0. 11
6	−0. 23	−0. 04	+0. 32	+0. 19	+0. 27	+0. 07	−0. 08	−0. 47	−0. 35
8	−0. 10	+0. 11	+0. 45	+0. 33	+0. 39	+0. 19	+0. 03	−0. 33	−0. 22
10	+0. 36	+0. 57	+0. 89	+0. 78	+0. 83	+0. 64	+0. 47	+0. 12	+0. 23
12	+0. 95	+1. 16	+1. 47	+1. 36	+1. 40	+1. 22	+1. 03	+0. 70	+0. 81
14	+0. 03	+0. 26	+0. 54	+0. 45	+0. 48	+0. 29	+0. 10	−0. 21	−0. 11
16	−0. 20	+0. 03	+0. 30	+0. 21	+0. 23	+0. 05	−0. 16	−0. 45	−0. 36
18	−0. 07	+0. 18	+0. 42	+0. 35	+0. 36	+0. 17	−0. 04	−0. 31	−0. 23
20	+0. 39	+0. 64	+0. 87	+0. 80	+0. 80	+0. 62	+0. 39	+0. 14	+0. 22
22	+0. 98	+1. 23	+1. 44	+1. 38	+1. 37	+1. 20	+0. 96	+0. 72	+0. 80
24	+0. 06	+0. 33	+0. 52	+0. 47	+0. 44	+0. 27	+0. 02	−0. 19	−0. 12
26	−0. 17	+0. 10	+0. 27	+0. 23	+0. 20	+0. 03	−0. 23	−0. 43	−0. 36
28	−0. 04	+0. 25	+0. 40	+0. 37	+0. 32	+0. 15	−0. 12	−0. 29	−0. 23
30	+0. 42	+0. 71	+0. 84	+0. 82	+0. 76	+0. 60	+0. 32	+0. 16	+0. 22
32	+1. 01	+1. 30	+1. 41	+1. 40	+1. 33	+1. 18	+0. 89	+0. 74	+0. 80
34	+0. 09	+0. 40	+0. 49	+0. 49	+0. 41	+0. 25	−0. 05	−0. 17	−0. 12
36	−0. 14	+0. 17	+0. 24	+0. 25	+0. 16	+0. 01	−0. 30	−0. 41	−0. 36
38	−0. 01	+0. 32	+0. 37	+0. 39	+0. 29	+0. 13	−0. 19	−0. 27	−0. 23
40	+0. 45	+0. 78	+0. 81	+0. 84	+0. 73	+0. 58	+0. 25	+0. 18	+0. 22
42	+1. 03	+1. 37	+1. 39	+1. 42	+1. 30	+1. 16	+0. 81	+0. 77	+0. 80
44	+0. 12	+0. 47	+0. 46	+0. 50	+0. 37	+0. 23	−0. 12	−0. 15	−0. 12
46	−0. 12	+0. 24	+0. 22	+0. 27	+0. 13	−0. 01	−0. 38	−0. 38	−0. 37
48	+0. 02	+0. 39	+0. 34	+0. 40	+0. 25	+0. 11	−0. 26	−0. 25	−0. 24
50	+0. 47	+0. 85	+0. 79	+0. 85	+0. 69	+0. 56	+0. 17	+0. 21	+0. 21
52	+1. 06	+1. 44	+1. 36	+1. 43	+1. 26	+1. 14	+0. 74	+0. 79	+0. 79
54	+0. 14	+0. 54	+0. 44	+0. 52	+0. 34	+0. 21	−0. 20	−0. 12	−0. 13
56	−0. 09	+0. 31	+0. 19	+0. 28	+0. 09	−0. 03	−0. 45	−0. 36	−0. 37
58	+0. 04	+0. 46	+0. 32	+0. 42	+0. 22	+0. 09	−0. 34	−0. 22	−0. 24

TABLE VII.—*The Corrections for Division Errors of Circle A*—Continued

[The argument is the reading of the circle under the setting microscope less a multiple of 90°]

	72°	73°	74°	75°	76°	77°	78°	79°	80°
′	″	″	″	″	″	″	″	″	″
0	+0.21	+0.40	+0.67	+1.10	+1.30	+0.95	+0.52	+0.34	+0.13
2	+0.80	+0.99	+1.26	+1.69	+1.87	+1.52	+1.09	+0.91	+0.71
4	−0.12	+0.08	+0.36	+0.77	+0.94	+0.58	+0.17	−0.01	−0.20
6	−0.35	−0.15	+0.13	+0.54	+0.68	+0.33	−0.08	−0.26	−0.44
8	−0.22	−0.01	+0.28	+0.67	+0.80	+0.44	+0.05	−0.13	−0.30
10	+0.24	+0.45	+0.74	+1.13	+1.24	+0.88	+0.49	+0.31	+0.15
12	+0.83	+1.04	+1.33	+1.72	+1.81	+1.45	+1.06	+0.88	+0.73
14	−0.09	+0.13	+0.43	+0.81	+0.88	+0.51	+0.14	−0.05	−0.19
16	−0.32	−0.11	+0.20	+0.57	+0.62	+0.26	−0.11	−0.29	−0.42
18	−0.19	+0.03	+0.35	+0.71	+0.74	+0.37	+0.02	−0.17	−0.29
20	+0.27	+0.49	+0.81	+1.17	+1.18	+0.81	+0.46	+0.27	+0.16
22	+0.86	+1.08	+1.40	+1.76	+1.75	+1.38	+1.03	+0.84	+0.74
24	−0.06	+0.17	+0.50	+0.84	+0.82	+0.44	+0.11	−0.08	−0.17
26	−0.29	−0.06	+0.27	+0.61	+0.56	+0.19	−0.14	−0.33	−0.41
28	−0.16	+0.08	+0.42	+0.74	+0.68	+0.30	−0.01	−0.20	−0.27
30	+0.30	+0.54	+0.88	+1.20	+1.12	+0.74	+0.43	+0.24	+0.18
32	+0.89	+1.13	+1.47	+1.79	+1.69	+1.31	+1.00	+0.81	+0.76
34	−0.03	+0.22	+0.57	+0.87	+0.76	+0.37	+0.08	−0.12	−0.15
36	−0.26	−0.02	+0.34	+0.64	+0.50	+0.12	−0.17	−0.36	−0.39
38	−0.13	+0.12	+0.49	+0.77	+0.62	+0.23	−0.04	−0.24	−0.25
40	+0.33	+0.58	+0.95	+1.23	+1.06	+0.67	+0.40	+0.20	+0.20
42	+0.92	+1.17	+1.55	+1.82	+1.63	+1.23	+0.97	+0.77	+0.78
44	+0.01	+0.26	+0.64	+0.91	+0.70	+0.30	+0.05	−0.15	−0.13
46	−0.23	+0.03	+0.42	+0.67	+0.45	+0.04	−0.20	−0.40	−0.37
48	−0.09	+0.17	+0.56	+0.81	+0.57	+0.16	−0.07	−0.27	−0.23
50	+0.37	+0.63	+1.03	+1.27	+1.01	+0.59	+0.37	+0.17	+0.22
52	+0.96	+1.22	+1.62	+1.86	+1.58	+1.16	+0.94	+0.74	+0.80
54	+0.04	+0.31	+0.72	+0.94	+0.65	+0.22	+0.02	−0.19	−0.11
56	−0.19	+0.07	+0.49	+0.71	+0.39	−0.03	−0.23	−0.43	−0.35
58	−0.06	+0.21	+0.64	+0.84	+0.51	+0.08	−0.10	−0.31	−0.21

	81°	82°	83°	84°	85°	86°	87°	88°	89°
′	″	″	″	″	″	″	″	″	″
0	+0.24	+0.36	+0.84	+0.68	+0.56	+0.66	+0.50	+0.23	+0.08
2	+0.82	+0.96	+1.41	+1.26	+1.14	+1.23	+1.07	+0.81	+0.66
4	−0.09	+0.05	+0.49	+0.33	+0.23	+0.31	+0.14	−0.12	−0.27
6	−0.33	−0.17	+0.24	+0.09	−0.01	+0.06	−0.11	−0.36	−0.51
8	−0.19	−0.03	+0.37	+0.21	+0.13	+0.19	+0.01	−0.24	−0.39
10	+0.26	+0.44	+0.81	+0.66	+0.58	+0.63	+0.45	+0.21	+0.06
12	+0.84	+1.04	+1.39	+1.24	+1.16	+1.21	+1.02	+0.78	+0.64
14	−0.07	+0.13	+0.46	+0.31	+0.24	+0.28	+0.09	−0.14	−0.28
16	−0.31	−0.09	+0.22	+0.07	+0.01	+0.04	−0.15	−0.39	−0.53
18	−0.17	+0.05	+0.34	+0.19	+0.14	+0.16	−0.03	−0.26	−0.40
20	+0.28	+0.52	+0.79	+0.64	+0.59	+0.61	+0.41	+0.18	+0.05
22	+0.86	+1.12	+1.36	+1.22	+1.17	+1.18	+0.98	+0.76	+0.63
24	−0.05	+0.21	+0.44	+0.29	+0.26	+0.26	+0.05	−0.17	−0.30
26	−0.29	−0.01	+0.19	+0.05	+0.02	+0.01	−0.20	−0.41	−0.54
28	−0.15	+0.13	+0.32	+0.17	+0.16	+0.14	−0.08	−0.29	−0.42
30	+0.30	+0.60	+0.76	+0.62	+0.61	+0.58	+0.36	+0.16	+0.03
32	+0.88	+1.20	+1.33	+1.20	+1.19	+1.15	+0.93	+0.73	+0.61
34	−0.03	+0.29	+0.41	+0.27	+0.28	+0.23	0.00	−0.19	−0.32
36	−0.27	+0.07	+0.16	+0.03	+0.04	−0.02	−0.24	−0.44	−0.56
38	−0.13	+0.21	+0.29	+0.15	+0.18	+0.11	−0.12	−0.31	−0.44
40	+0.32	+0.68	+0.73	+0.60	+0.63	+0.55	+0.32	+0.13	+0.01
42	+0.90	+1.28	+1.31	+1.18	+1.21	+1.13	+0.89	+0.71	+0.59
44	−0.01	+0.37	+0.38	+0.25	+0.29	+0.20	−0.04	−0.22	−0.33
46	−0.25	+0.15	+0.14	+0.01	+0.06	−0.04	−0.29	−0.46	−0.58
48	−0.11	+0.29	+0.26	+0.13	+0.19	+0.08	−0.17	−0.34	−0.45
50	+0.34	+0.76	+0.71	+0.58	+0.64	+0.53	+0.27	+0.11	0.00
52	+0.92	+1.36	+1.28	+1.16	+1.22	+1.10	+0.84	+0.68	+0.58
54	+0.01	+0.45	+0.36	+0.23	+0.31	+0.18	−0.09	−0.24	−0.35
56	−0.23	+0.23	+0.11	−0.01	+0.07	−0.07	−0.33	−0.49	−0.59
58	−0.09	+0.37	+0.24	+0.11	+0.21	+0.06	−0.21	−0.36	−0.47

TABLE VII.—*The Corrections for Division Errors of Circle B*

[The argument is the smallest circle reading of the four microscopes]

	0°	1°	2°	3°	4°	5°	6°	7°	8°
′	″	″	″	″	″	″	″	″	″
0	0.00	−0.18	−0.42	−0.79	−0.98	−0.93	−0.68	−0.67	−0.30
2	+0.12	−0.06	−0.30	−0.67	−0.85	−0.79	−0.55	−0.53	−0.17
4	+0.57	+0.38	+0.14	−0.22	−0.40	−0.33	−0.10	−0.07	+0.28
6	+1.14	+0.96	+0.70	+0.35	+0.19	+0.25	+0.48	+0.53	+0.85
8	+0.22	+0.03	−0.23	−0.57	−0.73	−0.66	−0.44	−0.38	−0.07
10	−0.03	−0.22	−0.48	−0.82	−0.97	−0.89	−0.68	−0.61	−0.31
12	+0.09	−0.10	−0.36	−0.70	−0.84	−0.75	−0.55	−0.47	−0.18
14	+0.54	+0.34	+0.08	−0.25	−0.39	−0.29	−0.10	0.00	+0.26
16	+1.11	+0.92	+0.64	+0.32	+0.19	+0.30	+0.48	+0.59	+0.84
18	+0.19	−0.01	−0.29	−0.60	−0.73	−0.61	−0.44	−0.31	−0.09
20	−0.06	−0.26	−0.54	−0.85	−0.97	−0.84	−0.68	−0.54	−0.33
22	+0.06	−0.14	−0.42	−0.73	−0.84	−0.70	−0.55	−0.40	−0.20
24	+0.51	+0.30	+0.02	−0.28	−0.39	−0.24	−0.10	+0.06	+0.25
26	+1.08	+0.88	+0.58	+0.29	+0.20	+0.34	+0.48	+0.66	+0.82
28	+0.16	−0.05	−0.35	−0.63	−0.72	−0.57	−0.44	−0.25	−0.10
30	−0.09	−0.30	−0.60	−0.88	−0.96	−0.80	−0.68	−0.48	−0.34
32	+0.03	−0.18	−0.48	−0.76	−0.83	−0.66	−0.55	−0.34	−0.21
34	+0.48	+0.26	−0.04	−0.31	−0.38	−0.20	−0.10	+0.12	+0.24
36	+1.05	+0.84	+0.52	+0.26	+0.21	+0.38	+0.48	+0.72	+0.81
38	+0.13	−0.09	−0.41	−0.66	−0.71	−0.53	−0.44	−0.19	−0.11
40	−0.12	−0.34	−0.66	−0.91	−0.95	−0.76	−0.68	−0.42	−0.35
42	0.00	−0.22	−0.54	−0.79	−0.82	−0.62	−0.55	−0.28	−0.22
44	+0.45	+0.22	−0.11	−0.35	−0.37	−0.16	−0.10	+0.18	+0.22
46	+1.02	+0.80	+0.46	+0.23	+0.22	+0.42	+0.49	+0.78	+0.80
48	+0.10	−0.13	−0.48	−0.70	−0.70	−0.49	−0.43	−0.13	−0.13
50	−0.15	−0.38	−0.73	−0.95	−0.94	−0.72	−0.67	−0.36	−0.37
52	−0.03	−0.26	−0.61	−0.83	−0.81	−0.58	−0.54	−0.22	−0.24
54	+0.42	+0.18	−0.17	−0.38	−0.36	−0.12	−0.09	+0.24	+0.21
56	+0.99	+0.76	+0.39	+0.19	+0.23	+0.46	+0.49	+0.84	+0.78
58	+0.07	−0.17	−0.54	−0.73	−0.69	−0.45	−0.43	−0.07	−0.14

	9°	10°	11°	12°	13°	14°	15°	16°	17°
′	″	″	″	″	″	″	″	″	″
0	−0.38	−0.46	−0.08	−0.04	−0.63	−0.83	−0.86	−0.51	−0.04
2	−0.25	−0.32	+0.05	+0.07	−0.50	−0.70	−0.72	−0.37	+0.10
4	+0.20	+0.14	+0.50	+0.50	−0.05	−0.25	−0.26	+0.09	+0.56
6	+0.77	+0.74	+1.09	+1.06	+0.52	+0.33	+0.34	+0.69	+1.16
8	−0.15	−0.17	+0.17	+0.12	−0.40	−0.59	−0.57	−0.22	+0.25
10	−0.39	−0.49	−0.07	−0.14	−0.65	−0.83	−0.80	−0.44	+0.02
12	−0.26	−0.26	+0.06	−0.03	−0.53	−0.70	−0.66	−0.29	+0.16
14	+0.18	+0.21	+0.51	+0.40	−0.09	−0.25	−0.20	+0.17	+0.62
16	+0.76	+0.80	+1.09	+0.97	+0.49	+0.32	+0.39	+0.77	+1.22
18	−0.17	−0.10	+0.17	+0.03	−0.44	−0.60	−0.52	−0.14	+0.31
20	−0.41	−0.33	−0.07	−0.23	−0.69	−0.84	−0.75	−0.36	+0.08
22	−0.28	−0.19	+0.06	−0.12	−0.57	−0.71	−0.61	−0.21	+0.22
24	+0.17	+0.27	+0.51	+0.31	−0.12	−0.26	−0.15	+0.25	+0.68
26	+0.74	+0.87	+1.10	+0.87	+0.45	+0.32	+0.45	+0.85	+1.28
28	−0.18	−0.04	+0.18	−0.07	−0.47	−0.60	−0.46	−0.06	+0.37
30	−0.42	−0.27	−0.06	−0.33	−0.72	−0.84	−0.69	−0.28	+0.14
32	−0.29	−0.13	+0.07	−0.22	−0.60	−0.71	−0.55	−0.13	+0.28
34	+0.16	+0.33	+0.52	+0.21	−0.16	−0.26	−0.09	+0.33	+0.74
36	+0.73	+0.93	+1.11	+0.77	+0.42	+0.31	+0.51	+0.93	+1.34
38	−0.19	+0.02	+0.19	−0.17	−0.51	−0.61	−0.40	+0.02	+0.43
40	−0.43	−0.21	−0.05	−0.43	−0.76	−0.85	−0.63	−0.20	+0.20
42	−0.30	−0.07	+0.08	−0.32	−0.64	−0.72	−0.49	−0.05	+0.34
44	+0.14	+0.40	+0.53	+0.11	−0.19	−0.27	−0.03	+0.41	+0.81
46	+0.72	+0.99	+1.11	+0.68	+0.38	+0.31	+0.56	+1.01	+1.40
48	−0.21	+0.09	+0.19	−0.26	−0.54	−0.61	−0.35	+0.10	+0.50
50	−0.45	−0.14	−0.05	−0.52	−0.79	−0.85	−0.58	−0.12	+0.27
52	−0.32	0.00	+0.08	−0.41	−0.67	−0.72	−0.44	+0.03	+0.41
54	+0.13	+0.46	+0.53	+0.02	−0.23	−0.27	+0.02	+0.49	+0.87
56	+0.70	+1.06	+1.12	+0.58	+0.35	+0.31	+0.62	+1.09	+1.47
58	−0.22	+0.15	+0.20	−0.36	−0.58	−0.61	−0.29	+0.18	+0.56

TABLE VII.—*The Corrections for Division Errors of Circle B*—Continued

[The argument is the smallest circle reading of the four microscopes]

	18°	19°	20°	21°	22°	23°	24°	25°	26°
′	″	″	″	″	″	″	″	″	″
0	+0.33	+0.50	+0.92	+0.76	+0.87	+0.66	+0.54	+0.10	+0.23
2	+0.47	+0.64	+1.04	+0.89	+0.99	+0.79	+0.66	+0.23	+0.36
4	+0.92	+1.11	+1.49	+1.35	+1.43	+1.23	+1.09	+0.69	+0.81
6	+1.51	+1.70	+2.06	+1.93	+2.01	+1.81	+1.66	+1.27	+1.39
8	+0.59	+0.80	+1.14	+1.02	+1.08	+0.88	+0.72	+0.36	+0.47
10	+0.36	+0.57	+0.89	+0.78	+0.83	+0.64	+0.47	+0.12	+0.23
12	+0.50	+0.71	+1.02	+0.91	+0.95	+0.77	+0.58	+0.25	+0.36
14	+0.95	+1.18	+1.46	+1.37	+1.40	+1.21	+1.02	+0.71	+0.81
16	+1.54	+1.77	+2.04	+1.95	+1.97	+1.79	+1.58	+1.29	+1.38
18	+0.62	+0.87	+1.11	+1.04	+1.05	+0.86	+0.65	+0.38	+0.46
20	+0.39	+0.64	+0.87	+0.80	+0.80	+0.62	+0.39	+0.14	+0.22
22	+0.53	+0.78	+0.99	+0.93	+0.92	+0.75	+0.51	+0.27	+0.35
24	+0.98	+1.25	+1.44	+1.39	+1.36	+1.19	+0.94	+0.73	+0.80
26	+1.57	+1.84	+2.01	+1.97	+1.94	+1.77	+1.51	+1.31	+1.38
28	+0.65	+0.94	+1.09	+1.06	+1.01	+0.84	+0.57	+0.40	+0.46
30	+0.42	+0.71	+0.84	+0.82	+0.76	+0.60	+0.32	+0.16	+0.22
32	+0.56	+0.85	+0.96	+0.95	+0.88	+0.73	+0.44	+0.29	+0.35
34	+1.01	+1.32	+1.41	+1.41	+1.33	+1.17	+0.87	+0.75	+0.80
36	+1.60	+1.91	+1.98	+1.99	+1.90	+1.75	+1.44	+1.33	+1.38
38	+0.68	+1.01	+1.06	+1.08	+0.98	+0.82	+0.50	+0.42	+0.46
40	+0.45	+0.78	+0.81	+0.84	+0.73	+0.58	+0.25	+0.18	+0.22
42	+0.58	+0.92	+0.94	+0.97	+0.85	+0.71	+0.36	+0.32	+0.35
44	+1.04	+1.39	+1.38	+1.42	+1.29	+1.15	+0.80	+0.77	+0.80
46	+1.62	+1.98	+1.96	+2.01	+1.87	+1.73	+1.36	+1.36	+1.37
48	+0.71	+1.08	+1.03	+1.09	+0.94	+0.80	+0.43	+0.44	+0.45
50	+0.47	+0.85	+0.79	+0.85	+0.69	+0.56	+0.17	+0.21	+0.21
52	+0.61	+0.99	+0.91	+0.98	+0.81	+0.69	+0.29	+0.34	+0.34
54	+1.06	+1.46	+1.36	+1.44	+1.26	+1.13	+0.72	+0.80	+0.79
56	+1.65	+2.05	+1.93	+2.02	+1.83	+1.71	+1.29	+1.38	+1.37
58	+0.73	+1.15	+1.01	+1.11	+0.91	+0.78	+0.35	+0.47	+0.45

	27°	28°	29°	30°	31°	32°	33°	34°	35°
′	″	″	″	″	″	″	″	″	″
0	+0.21	+0.40	+0.67	+1.10	+1.30	+0.95	+0.52	+0.34	+0.13
2	+0.35	+0.54	+0.81	+1.24	+1.42	+1.07	+0.64	+0.46	+0.26
4	+0.80	+1.00	+1.28	+1.69	+1.86	+1.50	+1.09	+0.91	+0.72
6	+1.39	+1.59	+1.87	+2.28	+2.42	+2.07	+1.66	+1.48	+1.30
8	+0.47	+0.68	+0.97	+1.36	+1.49	+1.13	+0.74	+0.56	+0.39
10	+0.24	+0.45	+0.74	+1.13	+1.24	+0.88	+0.49	+0.31	+0.15
12	+0.38	+0.59	+0.88	+1.27	+1.36	+1.00	+0.61	+0.43	+0.28
14	+0.83	+1.05	+1.35	+1.73	+1.80	+1.43	+1.06	+0.87	+0.73
16	+1.42	+1.63	+1.94	+2.31	+2.36	+2.00	+1.63	+1.45	+1.32
18	+0.50	+0.72	+1.04	+1.40	+1.43	+1.06	+0.71	+0.52	+0.40
20	+0.27	+0.49	+0.81	+1.17	+1.18	+0.81	+0.46	+0.27	+0.16
22	+0.41	+0.63	+0.95	+1.31	+1.30	+0.93	+0.58	+0.39	+0.29
24	+0.86	+1.09	+1.42	+1.76	+1.74	+1.36	+1.03	+0.84	+0.75
26	+1.45	+1.68	+2.01	+2.35	+2.30	+1.93	+1.60	+1.41	+1.33
28	+0.53	+0.77	+1.11	+1.43	+1.37	+0.99	+0.68	+0.49	+0.42
30	+0.30	+0.54	+0.88	+1.20	+1.12	+0.74	+0.43	+0.24	+0.18
32	+0.44	+0.68	+1.02	+1.34	+1.24	+0.86	+0.55	+0.36	+0.31
34	+0.89	+1.14	+1.49	+1.79	+1.68	+1.29	+1.00	+0.80	+0.77
36	+1.48	+1.72	+2.08	+2.38	+2.24	+1.86	+1.57	+1.38	+1.35
38	+0.56	+0.81	+1.18	+1.46	+1.31	+0.92	+0.65	+0.45	+0.44
40	+0.33	+0.58	+0.95	+1.23	+1.06	+0.67	+0.40	+0.20	+0.20
42	+0.47	+0.72	+1.10	+1.37	+1.18	+0.78	+0.52	+0.32	+0.33
44	+0.93	+1.18	+1.56	+1.83	+1.62	+1.22	+0.97	+0.77	+0.79
46	+1.51	+1.77	+2.16	+2.41	+2.19	+1.78	+1.54	+1.34	+1.37
48	+0.60	+0.86	+1.25	+1.50	+1.26	+0.85	+0.62	+0.42	+0.46
50	+0.37	+0.63	+1.03	+1.27	+1.01	+0.59	+0.37	+0.17	+0.22
52	+0.51	+0.77	+1.17	+1.41	+1.13	+0.71	+0.49	+0.29	+0.35
54	+0.96	+1.23	+1.64	+1.86	+1.57	+1.14	+0.94	+0.73	+0.81
56	+1.55	+1.81	+2.23	+2.45	+2.13	+1.71	+1.51	+1.31	+1.39
58	+0.63	+0.90	+1.33	+1.53	+1.20	+0.77	+0.59	+0.38	+0.48

TABLE VII.—*The Corrections for Division Errors of Circle B*—Continued

[The argument is the smallest circle reading of the four microscopes]

	36°	37°	38°	39°	40°	41°	42°	43°	44°
′	″	″	″	″	″	″	″	″	″
0	+0.24	+0.36	+0.84	+0.68	+0.56	+0.66	+0.50	+0.23	+0.08
2	+0.37	+0.51	+0.96	+0.81	+0.69	+0.78	+0.62	+0.36	+0.21
4	+0.83	+0.97	+1.41	+1.25	+1.15	+1.23	+1.06	+0.80	+0.65
6	+1.41	+1.57	+1.98	+1.83	+1.73	+1.80	+1.63	+1.38	+1.23
8	+0.50	+0.66	+1.06	+0.90	+0.82	+0.88	+0.70	+0.45	+0.30
10	+0.26	+0.44	+0.81	+0.66	+0.58	+0.63	+0.45	+0.21	+0.06
12	+0.39	+0.59	+0.94	+0.79	+0.71	+0.76	+0.57	+0.33	+0.19
14	+0.85	+1.05	+1.38	+1.23	+1.16	+1.20	+1.01	+0.78	+0.64
16	+1.43	+1.65	+1.96	+1.81	+1.75	+1.78	+1.59	+1.35	+1.21
18	+0.52	+0.74	+1.03	+0.88	+0.83	+0.85	+0.66	+0.43	+0.29
20	+0.28	+0.52	+0.79	+0.64	+0.59	+0.61	+0.41	+0.18	+0.05
22	+0.41	+0.67	+0.91	+0.77	+0.72	+0.73	+0.53	+0.31	+0.18
24	+0.87	+1.13	+1.36	+1.21	+1.18	+1.18	+0.97	+0.75	+0.62
26	+1.45	+1.73	+1.93	+1.79	+1.76	+1.75	+1.54	+1.33	+1.20
28	+0.54	+0.82	+1.01	+0.86	+0.85	+0.83	+0.61	+0.40	+0.27
30	+0.30	+0.60	+0.76	+0.62	+0.61	+0.58	+0.36	+0.16	+0.03
32	+0.43	+0.75	+0.88	+0.75	+0.74	+0.70	+0.48	+0.28	+0.16
34	+0.89	+1.21	+1.33	+1.19	+1.20	+1.15	+0.92	+0.73	+0.60
36	+1.47	+1.81	+1.90	+1.77	+1.78	+1.72	+1.50	+1.30	+1.18
38	+0.56	+0.90	+0.98	+0.84	+0.87	+0.80	+0.57	+0.38	+0.25
40	+0.32	+0.68	+0.73	+0.60	+0.63	+0.55	+0.32	+0.13	+0.01
42	+0.45	+0.83	+0.86	+0.73	+0.76	+0.68	+0.44	+0.26	+0.14
44	+0.91	+1.29	+1.30	+1.17	+1.21	+1.12	+0.88	+0.70	+0.59
46	+1.49	+1.89	+1.88	+1.75	+1.80	+1.70	+1.45	+1.28	+1.16
48	+0.58	+0.98	+0.95	+0.82	+0.88	+0.77	+0.52	+0.35	+0.24
50	+0.34	+0.76	+0.71	+0.58	+0.64	+0.53	+0.27	+0.11	0.00
52	+0.47	+0.91	+0.83	+0.71	+0.77	+0.65	+0.39	+0.23	+0.13
54	+0.93	+1.37	+1.28	+1.15	+1.23	+1.10	+0.83	+0.68	+0.57
56	+1.51	+1.97	+1.85	+1.73	+1.81	+1.67	+1.41	+1.25	+1.15
58	+0.60	+1.06	+0.93	+0.80	+0.90	+0.75	+0.48	+0.33	+0.22

	45°	46°	47°	48°	49°	50°	51°	52°	53°
′	″	″	″	″	″	″	″	″	″
0	−0.01	−0.06	+0.14	+0.12	+0.26	+0.03	−0.01	−0.09	−0.39
2	+0.11	+0.08	+0.27	+0.25	+0.38	+0.17	+0.11	+0.04	−0.27
4	+0.56	+0.53	+0.72	+0.71	+0.82	+0.62	+0.56	+0.48	+0.17
6	+1.13	+1.12	+1.30	+1.29	+1.40	+1.19	+1.13	+1.05	+0.73
8	+0.21	+0.20	+0.38	+0.38	+0.47	+0.27	+0.21	+0.12	−0.20
10	−0.03	−0.03	+0.14	+0.14	+0.22	+0.03	−0.03	−0.13	−0.45
12	+0.10	+0.11	+0.27	+0.28	+0.34	+0.16	+0.10	−0.01	−0.33
14	+0.55	+0.57	+0.72	+0.73	+0.79	+0.61	+0.55	+0.43	+0.10
16	+1.13	+1.15	+1.29	+1.32	+1.36	+1.18	+1.12	+0.99	+0.67
18	+0.21	+0.24	+0.37	+0.40	+0.44	+0.26	+0.20	+0.06	−0.27
20	−0.03	+0.01	+0.13	+0.17	+0.19	+0.02	−0.04	−0.19	−0.52
22	+0.10	+0.15	+0.26	+0.30	+0.31	+0.15	+0.09	−0.07	−0.40
24	+0.55	+0.60	+0.71	+0.76	+0.75	+0.60	+0.54	+0.37	+0.04
26	+1.12	+1.19	+1.29	+1.34	+1.33	+1.17	+1.11	+0.94	+0.60
28	+0.20	+0.27	+0.37	+0.43	+0.40	+0.25	+0.19	+0.01	−0.33
30	−0.04	+0.04	+0.13	+0.19	+0.15	+0.01	−0.05	−0.24	−0.58
32	+0.09	+0.18	+0.26	+0.32	+0.27	+0.14	+0.08	−0.12	−0.46
34	+0.54	+0.63	+0.71	+0.78	+0.71	+0.59	+0.53	+0.32	−0.02
36	+1.11	+1.22	+1.29	+1.36	+1.29	+1.16	+1.10	+0.89	+0.54
38	+0.19	+0.30	+0.37	+0.45	+0.36	+0.24	+0.18	−0.04	−0.39
40	−0.05	+0.07	+0.13	+0.21	+0.11	0.00	−0.06	−0.29	−0.64
42	+0.08	+0.21	+0.26	+0.35	+0.23	+0.13	+0.07	−0.17	−0.52
44	+0.53	+0.67	+0.71	+0.80	+0.68	+0.58	+0.52	+0.27	−0.09
46	+1.11	+1.25	+1.28	+1.39	+1.25	+1.15	+1.09	+0.84	+0.48
48	+0.19	+0.34	+0.36	+0.47	+0.33	+0.23	+0.17	−0.09	−0.46
50	−0.05	+0.11	+0.12	+0.24	+0.08	−0.01	−0.07	−0.34	−0.71
52	+0.08	+0.25	+0.25	+0.37	+0.20	+0.12	+0.06	−0.22	−0.59
54	+0.53	+0.70	+0.70	+0.83	+0.64	+0.57	+0.51	+0.22	−0.15
56	+1.10	+1.29	+1.28	+1.41	+1.22	+1.14	+1.08	+0.79	+0.41
58	+0.18	+0.37	+0.36	+0.50	+0.29	+0.22	+0.16	−0.14	−0.52

TABLE VII.—*The Corrections for Division Errors of Circle B*—Continued

[The argument is the smallest circle reading of the four microscopes]

	54°	55°	56°	57°	58°	59°	60°	61°	62°
′	″	″	″	″	″	″	″	″	″
0	−0. 77	−0. 98	−1. 00	−0. 59	−0. 08	−0. 10	−0. 15	−0. 17	−0. 21
2	−0. 65	−0. 85	−0. 86	−0. 44	+0. 05	+0. 03	−0. 02	−0. 03	−0. 08
4	−0. 21	−0. 40	−0. 39	+0. 02	+0. 50	+0. 48	+0. 43	+0. 42	+0. 36
6	+0. 37	+0. 18	+0. 20	+0. 62	+1. 08	+1. 05	+1. 01	+0. 99	+0. 94
8	−0. 56	−0. 74	−0. 70	−0. 29	+0. 16	+0. 13	+0. 09	+0. 07	+0. 01
10	−0. 81	−0. 98	−0. 93	−0. 51	−0. 08	−0. 11	−0. 15	−0. 17	−0. 23
12	−0. 69	−0. 85	−0. 79	−0. 36	+0. 05	+0. 02	−0. 02	−0. 04	−0. 11
14	−0. 24	−0. 40	−0. 33	+0. 11	+0. 50	+0. 47	+0. 43	+0. 41	+0. 34
16	+0. 33	+0. 17	+0. 27	+0. 70	+1. 07	+1. 05	+1. 00	+0. 99	+0. 91
18	−0. 59	−0. 75	−0. 64	−0. 20	+0. 15	+0. 13	+0. 08	+0. 07	−0. 01
20	−0. 84	−0. 99	−0. 87	−0. 42	−0. 09	−0. 11	−0. 16	−0. 17	−0. 26
22	−0. 72	−0. 86	−0. 73	−0. 27	+0. 04	+0. 02	−0. 03	−0. 04	−0. 13
24	−0. 28	−0. 41	−0. 26	+0. 19	+0. 49	+0. 47	+0. 42	+0. 41	+0. 31
26	+0. 30	+0. 17	+0. 33	+0. 79	+1. 07	+1. 04	+1. 00	+0. 98	+0. 89
28	−0. 63	−0. 75	−0. 57	−0. 12	+0. 15	+0. 12	+0. 08	+0. 06	−0. 04
30	−0. 88	−0. 99	−0. 80	−0. 34	−0. 09	−0. 12	−0. 16	−0. 18	−0. 28
32	−0. 76	−0. 86	−0. 66	−0. 19	+0. 04	+0. 01	−0. 03	−0. 05	−0. 15
34	−0. 31	−0. 41	−0. 19	+0. 28	+0. 49	+0. 46	+0. 42	+0. 40	+0. 29
36	+0. 26	+0. 17	+0. 40	+0. 87	+1. 07	+1. 03	+1. 00	+0. 97	+0. 87
38	−0. 66	−0. 75	−0. 50	−0. 03	+0. 15	+0. 11	+0. 08	+0. 05	−0. 06
40	−0. 91	−0. 99	−0. 73	−0. 25	−0. 09	−0. 13	−0. 16	−0. 19	−0. 30
42	−0. 79	−0. 86	−0. 59	−0. 10	+0. 04	0. 00	−0. 03	−0. 06	−0. 17
44	−0. 35	−0. 41	−0. 12	+0. 36	+0. 49	+0. 45	+0. 42	+0. 39	+0. 27
46	+0. 23	+0. 16	+0. 47	+0. 96	+1. 06	+1. 02	+1. 00	+0. 96	+0. 85
48	−0. 70	−0. 76	−0. 43	+0. 05	+0. 14	+0. 10	+0. 08	+0. 04	−0. 08
50	−0. 95	−1. 00	−0. 66	−0. 17	−0. 10	−0. 14	−0. 16	−0. 20	−0. 32
52	−0. 83	−0. 87	−0. 52	−0. 02	+0. 03	−0. 01	−0. 03	−0. 07	−0. 19
54	−0. 38	−0. 42	−0. 05	+0. 45	+0. 48	+0. 44	+0. 42	+0. 38	+0. 25
56	+0. 19	+0. 16	+0. 54	+1. 04	+1. 06	+1. 01	+1. 00	+0. 95	+0. 83
58	−0. 73	−0. 76	−0. 36	+0. 14	+0. 14	+0. 09	+0. 08	+0. 03	−0. 10

	63°	64°	65°	66°	67°	68°	69°	70°	71°
′	″	″	″		″	″	″	″	″
0	−0. 34	−0. 03	+0. 08	+0. 09	+0. 28	+0. 56	+0. 65	+0. 24	+0. 47
2	−0. 20	+0. 10	+0. 21	+0. 22	+0. 42	+0. 69	+0. 77	+0. 38	+0. 57
4	+0. 26	+0. 56	+0. 66	+0. 67	+0. 88	+1. 14	+1. 20	+0. 84	+1. 00
6	+0. 85	+1. 14	+1. 24	+1. 26	+1. 47	+1. 73	+1. 77	+1. 42	+1. 55
8	−0. 06	+0. 23	+0. 32	+0. 34	+0. 56	+0. 81	+0. 83	+0. 51	+0. 61
10	−0. 29	−0. 01	+0. 08	+0. 11	+0. 33	+0. 57	+0. 58	+0. 28	+0. 35
12	−0. 15	+0. 12	+0. 21	+0. 25	+0. 47	+0. 70	+0. 70	+0. 42	+0. 46
14	+0. 31	+0. 57	+0. 66	+0. 71	+0. 93	+1. 16	+1. 13	+0. 87	+0. 88
16	+0. 91	+1. 16	+1. 24	+1. 29	+1. 51	+1. 74	+1. 70	+1. 46	+1. 44
18	0. 00	+0. 24	+0. 32	+0. 38	+0. 60	+0. 83	+0. 76	+0. 54	+0. 49
20	−0. 23	0. 00	+0. 08	+0. 15	+0. 37	+0. 59	+0. 51	+0. 31	+0. 23
22	−0. 09	+0. 13	+0. 21	+0. 29	+0. 51	+0. 72	+0. 63	+0. 45	+0. 34
24	+0. 37	+0. 59	+0. 66	+0. 74	+0. 97	+1. 17	+1. 06	+0. 91	+0. 77
26	+0. 96	+1. 17	+1. 24	+1. 33	+1. 56	+1. 76	+1. 63	+1. 49	+1. 32
28	+0. 05	+0. 26	+0. 32	+0. 41	+0. 65	+0. 84	+0. 69	+0. 58	+0. 38
30	−0. 18	+0. 02	+0. 08	+0. 18	+0. 42	+0. 60	+0. 44	+0. 35	+0. 12
32	−0. 04	+0. 15	+0. 21	+0. 32	+0. 56	+0. 73	+0. 56	+0. 49	+0. 23
34	+0. 42	+0. 61	+0. 66	+0. 77	+1. 02	+1. 19	+0. 99	+0. 95	+0. 66
36	+1. 01	+1. 19	+1. 24	+1. 36	+1. 61	+1. 77	+1. 56	+1. 53	+1. 21
38	+0. 10	+0. 28	+0. 32	+0. 44	+0. 70	+0. 86	+0. 62	+0. 62	+0. 27
40	−0. 13	+0. 04	+0. 08	+0. 21	+0. 47	+0. 62	+0. 37	+0. 39	+0. 01
42	+0. 01	+0. 17	+0. 21	+0. 35	+0. 61	+0. 75	+0. 49	+0. 53	+0. 12
44	+0. 47	+0. 63	+0. 66	+0. 81	+1. 07	+1. 20	+0. 93	+0. 98	+0. 54
46	+1. 06	+1. 21	+1. 24	+1. 39	+1. 65	+1. 79	+1. 49	+1. 57	+1. 10
48	+0. 15	+0. 30	+0. 32	+0. 48	+0. 74	+0. 87	+0. 56	+0. 65	+0. 15
50	−0. 08	+0. 06	+0. 08	+0. 25	+0. 51	+0. 63	+0. 31	+0. 42	−0. 11
52	+0. 06	+0. 19	+0. 21	+0. 39	+0. 65	+0. 76	+0. 43	+0. 56	0. 00
54	+0. 52	+0. 65	+0. 66	+0. 84	+1. 11	+1. 22	+0. 86	+1. 02	+0. 43
56	+1. 11	+1. 23	+1. 24	+1. 43	+1. 70	+1. 80	+1. 43	+1. 60	+0. 98
58	+0. 20	+0. 32	+0. 32	+0. 51	+0. 79	+0. 89	+0. 49	+0. 69	+0. 04

TABLE VII.—*The Corrections for Division Errors of Circle B*—Continued

[The argument is the smallest circle reading of the four microscopes]

	72°	73°	74°	75°	76°	77°	78°	79°	80°
′	″	″	″	″	″	″	″	″	″
0	−0. 22	−0. 47	−0. 64	−0. 88	−0. 58	−0. 39	−0. 47	−0. 46	−0. 06
2	−0. 10	−0. 35	−0. 52	−0. 74	−0. 44	−0. 27	−0. 34	−0. 32	+0. 07
4	+0. 34	+0. 10	−0. 08	−0. 28	+0. 01	+0. 18	+0. 11	+0. 15	+0. 52
6	+0. 92	+0. 67	+0. 50	+0. 31	+0. 60	+0. 75	+0. 69	+0. 74	+1. 11
8	−0. 01	−0. 25	−0. 43	−0. 60	−0. 32	−0. 17	−0. 23	−0. 16	+0. 19
10	−0. 26	−0. 50	−0. 68	−0. 83	−0. 55	−0. 41	−0. 47	−0. 39	−0. 05
12	−0. 14	−0. 38	−0. 56	−0. 69	−0. 41	−0. 28	−0. 34	−0. 25	+0. 08
14	+0. 30	+0. 07	−0. 12	−0. 23	+0. 04	+0. 16	+0. 11	+0. 21	+0. 53
16	+0. 88	+0. 64	+0. 46	+0. 36	+0. 63	+0. 74	+0. 70	+0. 81	+1. 12
18	−0. 05	−0. 28	−0. 47	−0. 55	−0. 29	−0. 19	−0. 22	−0. 10	+0. 20
20	−0. 30	−0. 53	−0. 72	−0. 78	−0. 52	−0. 43	−0. 46	−0. 33	−0. 04
22	−0. 18	−0. 41	−0. 60	−0. 64	−0. 38	−0. 30	−0. 33	−0. 19	+0. 09
24	+0. 26	+0. 04	−0. 16	−0. 18	+0. 07	+0. 15	+0. 12	+0. 28	+0. 54
26	+0. 84	+0. 61	+0. 42	+0. 41	+0. 66	+0. 72	+0. 70	+0. 87	+1. 13
28	−0. 09	−0. 31	−0. 51	−0. 50	−0. 26	−0. 20	−0. 22	−0. 03	+0. 21
30	−0. 34	−0. 56	−0. 76	−0. 73	−0. 49	−0. 44	−0. 46	−0. 26	−0. 03
32	−0. 22	−0. 44	−0. 64	−0. 59	−0. 35	−0. 31	−0. 33	−0. 12	+0. 10
34	+0. 22	+0. 01	−0. 20	−0. 13	+0. 10	+0. 14	+0. 12	+0. 35	+0. 55
36	+0. 80	+0. 58	+0. 38	+0. 46	+0. 69	+0. 71	+0. 70	+0. 94	+1. 14
38	−0. 13	−0. 34	−0. 55	−0. 45	−0. 23	−0. 21	−0. 22	+0. 04	+0. 22
40	−0. 38	−0. 59	−0. 80	−0. 68	−0. 46	−0. 45	−0. 46	−0. 19	−0. 02
42	−0. 26	−0. 46	−0. 68	−0. 54	−0. 32	−0. 32	−0. 33	−0. 05	+0. 11
44	+0. 18	−0. 02	−0. 24	−0. 08	+0. 13	+0. 13	+0. 12	+0. 41	+0. 56
46	+0. 75	+0. 56	+0. 34	+0. 51	+0. 72	+0. 70	+0. 70	+1. 01	+1. 15
48	−0. 18	−0. 37	−0. 59	−0. 40	−0. 20	−0. 22	−0. 22	+0. 10	+0. 23
50	−0. 43	−0. 61	−0. 84	−0. 63	−0. 43	−0. 46	−0. 46	−0. 13	−0. 01
52	−0. 31	−0. 49	−0. 72	−0. 49	−0. 29	−0. 33	−0. 33	+0. 01	+0. 12
54	+0. 13	−0. 04	−0. 28	−0. 03	+0. 16	+0. 12	+0. 12	+0. 48	+0. 57
56	+0. 71	+0. 53	+0. 30	+0. 56	+0. 75	+0. 69	+0. 70	+1. 07	+1. 16
58	−0. 22	−0. 39	−0. 63	−0. 35	−0. 17	−0. 23	−0. 22	+0. 17	+0. 24

	81°	82°	83°	84°	85°	86°	87°	88°	89°
′	″	″	″	″	″	″	″	″	″
0	0. 00	−0. 03	+0. 18	−0. 17	−0. 35	−0. 04	+0. 03	+0. 41	+0. 05
2	+0. 13	+0. 11	+0. 30	−0. 06	−0. 21	+0. 10	+0. 17	+0. 52	+0. 18
4	+0. 58	+0. 57	+0. 74	+0. 39	+0. 25	+0. 55	+0. 63	+0. 96	+0. 63
6	+1. 15	+1. 15	+1. 30	+0. 96	+0. 84	+1. 14	+1. 23	+1. 52	+1. 20
8	+0. 23	+0. 24	+0. 37	+0. 04	−0. 07	+0. 22	+0. 32	+0. 59	+0. 28
10	−0. 01	+0. 01	+0. 12	−0. 21	−0. 30	−0. 02	+0. 09	+0. 34	+0. 04
12	+0. 12	+0. 15	+0. 24	−0. 08	−0. 16	+0. 11	+0. 23	+0. 46	+0. 17
14	+0. 57	+0. 60	+0. 68	+0. 36	+0. 30	+0. 56	+0. 70	+0. 90	+0. 62
16	+1. 15	+1. 19	+1. 24	+0. 94	+0. 90	+1. 15	+1. 29	+1. 46	+1. 19
18	+0. 23	+0. 27	+0. 31	+0. 01	−0. 01	+0. 23	+0. 39	+0. 53	+0. 27
20	−0. 01	+0. 04	+0. 06	−0. 23	−0. 24	−0. 01	+0. 16	+0. 28	+0. 03
22	+0. 12	+0. 18	+0. 18	−0. 11	−0. 10	+0. 12	+0. 30	+0. 40	+0. 16
24	+0. 57	+0. 64	+0. 62	+0. 34	+0. 36	+0. 57	+0. 76	+0. 84	+0. 61
26	+1. 14	+1. 22	+1. 18	+0. 91	+0. 95	+1. 16	+1. 36	+1. 40	+1. 18
28	+0. 22	+0. 31	+0. 25	−0. 01	+0. 04	+0. 24	+0. 45	+0. 47	+0. 26
30	−0. 02	+0. 08	0. 00	−0. 26	−0. 19	0. 00	+0. 22	+0. 22	+0. 02
32	+0. 11	+0. 22	+0. 12	−0. 14	−0. 05	+0. 13	+0. 36	+0. 34	+0. 15
34	+0. 56	+0. 67	+0. 56	+0. 31	+0. 41	+0. 58	+0. 82	+0. 78	+0. 60
36	+1. 14	+1. 26	+1. 12	+0. 88	+1. 00	+1. 17	+1. 42	+1. 34	+1. 17
38	+0. 22	+0. 34	+0. 19	−0. 04	+0. 09	+0. 25	+0. 51	+0. 41	+0. 25
40	−0. 02	+0. 11	−0. 06	−0. 29	−0. 14	+0. 01	+0. 28	+0. 16	+0. 01
42	+0. 11	+0. 25	+0. 06	−0. 17	0. 00	+0. 14	+0. 42	+0. 28	+0. 14
44	+0. 56	+0. 71	+0. 50	+0. 28	+0. 46	+0. 59	+0. 88	+0. 72	+0. 59
46	+1. 13	+1. 29	+1. 06	+0. 85	+1. 06	+1. 18	+1. 48	+1. 29	+1. 17
48	+0. 21	+0. 38	+0. 13	−0. 07	+0. 15	+0. 26	+0. 57	+0. 36	+0. 25
50	−0. 03	+0. 15	−0. 12	−0. 32	−0. 08	+0. 02	+0. 34	+0. 11	+0. 01
52	+0. 10	+0. 29	0. 00	−0. 20	+0. 06	+0. 15	+0. 48	+0. 23	+0. 14
54	+0. 55	+0. 74	+0. 44	+0. 25	+0. 52	+0. 60	+0. 94	+0. 67	+0. 59
56	+1. 13	+1. 33	+1. 00	+0. 82	+1. 11	+1. 19	+1. 54	+1. 23	+1. 16
58	+0. 21	+0. 41	+0. 07	−0. 10	+0. 20	+0. 27	+0. 63	+0. 30	+0. 24

TABLE VIII.—*The Corrections to the Observed Declinations for Variation of Latitude*

[The corrections change sign for declinations observed below the pole]

Date	Δδ	Date	Δδ	Date	Δδ	Date	Δδ
1909. 009	″	1909. 411	″	1909. 739	″	1910. 168	″
	−0. 10		+0. 16		−0. 20		−0. 12
. 016		. 420		. 748		. 174	
	−0. 09		+0. 15		−0. 21		−0. 11
. 024		. 430		. 756		. 180	
	−0. 08		+0. 14		−0. 22		−0. 10
. 032		. 440		. 765		. 186	
	−0. 07		+0. 13		−0. 23		−0. 09
. 040		. 450		. 774		. 193	
	−0. 06		+0. 12		−0. 24		−0. 08
. 048		. 460		. 784		. 198	
	−0. 05		+0. 11		−0. 25		−0. 07
. 056		. 470		. 795		. 204	
	−0. 04		+0. 10		−0. 26		−0. 06
. 065		. 480		. 806		. 210	
	−0. 03		+0. 09		−0. 27		−0. 05
. 073		. 490		. 818		. 217	
	−0. 02		+0. 08		−0. 28		−0. 04
. 081		. 500		. 832		. 223	
	−0. 01		+0. 07		−0. 29		−0. 03
. 089		. 509		. 846		. 230	
	0. 00		+0. 06		−0. 30		−0. 02
. 097		. 518		. 864		. 236	
	+0. 01		+0. 05		−0. 31		−0. 01
. 105		. 527		. 885		. 242	
	+0. 02		+0. 04		−0. 32		0. 00
. 114		. 536		. 910		. 248	
	+0. 03		+0. 03		−0. 33		+0. 01
. 122		. 546		1909. 940		. 254	
	+0. 04		+0. 02		−0. 34		+0. 02
. 130		. 556		1910. 030		. 261	
	+0. 05		+0. 01		−0. 33		+0. 03
. 138		. 566		. 039		. 267	
	+0. 06		0. 00		−0. 32		+0. 04
. 146		. 575		. 047		. 274	
	+0. 07		−0. 01		−0. 31		+0. 05
. 154		. 585		. 054		. 280	
	+0. 08		−0. 02		−0. 30		+0. 06
. 162		. 595		. 061		. 286	
	+0. 09		−0. 03		−0. 29		+0. 07
. 170		. 605		. 067		. 293	
	+0. 10		−0. 04		−0. 28		+0. 08
. 177		. 613		. 074		. 299	
	+0. 11		−0. 05		−0. 27		+0. 09
. 185		. 621		. 080		. 305	
	+0. 12		−0. 06		−0. 26		+0. 10
. 194		. 629		. 086		. 312	
	+0. 13		−0. 07		−0. 25		+0. 11
. 202		. 637		. 092		. 320	
	+0. 14		−0. 08		−0. 24		+0. 12
. 210		. 645		. 098		. 330	
	+0. 15		−0. 09		−0. 23		+0. 13
. 219		. 653		. 104		. 339	
	+0. 16		−0. 10		−0. 22		+0. 14
. 230		. 661		. 111		. 350	
	+0. 17		−0. 11		−0. 21		+0. 15
. 240		. 670		. 117		. 362	
	+0. 18		−0. 12		−0. 20		+0. 16
. 250		. 679		. 124		. 376	
	+0. 19		−0. 13		−0. 19		+0. 17
. 265		. 688		. 130		. 390	
	+0. 20		−0. 14		−0. 18		+0. 18
. 284		. 696		. 136		. 404	
	+0. 21		−0. 15		−0. 17		+0. 19
. 344		. 705		. 142		. 421	
	+0. 20		−0. 16		−0. 16		+0. 20
. 370		. 713		. 149		. 443	
	+0. 19		−0. 17		−0. 15		+0. 21
. 386		. 722		. 155		. 471	
	+0. 18		−0. 18		−0. 14		+0. 22
. 400		. 730		. 161		. 579	
	+0. 17		−0. 19		−0. 13		+0. 21
. 411		. 739		. 168		. 600	

TABLE VIII.—*The Corrections to the Observed Declinations for Variation of Latitude*—Continued

[The corrections change sign for declinations observed below the pole]

Date	Δδ	Date	Δδ	Date	Δδ	Date	Δδ
1910. 600	″	1910. 815	″	1911. 248	″	1911. 673	″
	+0. 20		−0. 16		−0. 14		+0. 20
. 614		. 821		. 256		. 690	
	+0. 19		−0. 17		−0. 13		+0. 19
. 621		. 828		. 263		. 705	
	+0. 18		−0. 18		−0. 12		+0. 18
. 628		. 834		. 270		. 715	
	+0. 17		−0. 19		−0. 11		+0. 17
. 635		. 840		. 277		. 725	
	+0. 16		−0. 20		−0. 10		+0. 16
. 641		. 847		. 283		. 736	
	+0. 15		−0. 21		−0. 09		+0. 15
. 647		. 854		. 290		. 748	
	+0. 14		−0. 22		−0. 08		+0. 14
. 653		. 861		. 297		. 759	
	+0. 13		−0. 23		−0. 07		+0. 13
. 660		. 868		. 304		. 769	
	+0. 12		−0. 24		−0. 06		+0. 12
. 666		. 874		. 310		. 779	
	+0. 11		−0. 25		−0. 05		+0. 11
. 672		. 881		. 318		. 790	
	+0. 10		−0. 26		−0. 04		+0. 10
. 678		. 889		. 325		. 800	
	+0. 09		−0. 27		−0. 03		+0. 09
. 683		. 898		. 332		. 810	
	+0. 08		−0. 28		−0. 02		+0. 08
. 688		. 907		. 340		. 820	
	+0. 07		−0. 29		−0. 01		+0. 07
. 693		. 918		. 347		. 830	
	+0. 06		−0. 30		0. 00		+0. 06
. 699		. 930		. 355		. 840	
	+0. 05		−0. 31		+0. 01		+0. 05
. 704		. 950		. 364		. 851	
	+0. 04		−0. 32		+0. 02		+0. 04
. 708		1910. 982		. 372		. 862	
	+0. 03		−0. 33		+0. 03		+0. 03
. 712		1911. 068		. 380		. 873	
	+0. 02		−0. 32		+0. 04		+0. 02
. 716		. 091		. 387		. 884	
	+0. 01		−0. 31		+0. 05		+0. 01
. 721		. 109		. 396		. 895	
	0. 00		−0. 30		+0. 06		0. 00
. 726		. 121		. 406		. 905	
	−0. 01		−0. 29		+0. 07		−0. 01
. 731		. 133		. 415		. 915	
	−0. 02		−0. 28		+0. 08		−0. 02
. 736		. 144		. 425		. 925	
	−0. 03		−0. 27		+0. 09		−0. 03
. 741		. 154		. 436		. 935	
	−0. 04		−0. 26		+0. 10		−0. 04
. 747		. 163		. 446		. 945	
	−0. 05		−0. 25		+0. 11		−0. 05
. 753		. 173		. 457		. 955	
	−0. 06		−0. 24		+0. 12		−0. 06
. 759		. 182		. 469		. 965	
	−0. 07		−0. 23		+0. 13		−0. 07
. 764		. 190		. 480		. 975	
	−0. 08		−0. 22		+0. 14		−0. 08
. 770		. 198		. 492		. 985	
	−0. 09		−0. 21		+0. 15		−0. 09
. 776		. 206		. 505		1911. 995	
	−0. 10		−0. 20		+0. 16		−0. 10
. 783		. 213		. 520		1912. 005	
	−0. 11		−0. 19		+0. 17		−0. 11
. 789		. 220		. 534		. 015	
	−0. 12		−0. 18		+0. 18		−0. 12
. 795		. 227		. 550		. 024	
	−0. 13		−0. 17		+0. 19		−0. 13
. 802		. 234		. 568		. 034	
	−0. 14		−0. 16		+0. 20		−0. 14
. 809		. 241		. 589		. 043	
	−0. 15		−0. 15		+0. 21		−0. 15
. 815		. 248		. 673		. 053	

TABLE VIII.—*The Corrections to the Observed Declinations for Variation of Latitude*—Continued

[The corrections change sign for declinations observed below the pole]

Date	Δδ	Date	Δδ	Date	Δδ	Date	Δδ
1912. 053	″	1912. 540	″	1913. 308	″	1914. 037	″
	−0. 16		−0. 02		−0. 12		+0. 10
. 062		. 548		. 322		. 053	
	−0. 17		−0. 01		−0. 13		+0. 11
. 071		. 556		. 337		. 069	
	−0. 18		0. 00		−0. 14		+0. 12
. 079		. 565		. 350		. 084	
	−0. 19		+0. 01		−0. 15		+0. 13
. 090		. 575		. 368		. 100	
	−0. 20		+0. 02		−0. 16		+0. 14
. 102		. 585		. 385		. 116	
	−0. 21		+0. 03		−0. 17		+0. 15
. 115		. 597		. 407		. 133	
	−0. 22		+0. 04		−0. 18		+0. 16
. 130		. 611		. 435		. 151	
	−0. 23		+0. 05		−0. 19		+0. 17
. 144		. 628		. 545		. 172	
	−0. 24		+0. 06		−0. 18		+0. 18
. 170		. 650		. 590		. 220	
	−0. 25		+0. 07		−0. 17		+0. 17
. 200		. 670		. 630		. 239	
	−0. 26		+0. 08		−0. 16		+0. 16
. 240		. 700		. 662		. 254	
	−0. 27		+0. 09		−0. 15		+0. 15
. 330		. 735		. 690		. 268	
	−0. 26		+0. 10		−0. 14		+0. 14
. 350		. 774		. 715		. 281	
	−0. 25		+0. 11		−0. 13		+0. 13
. 370		. 880		. 737		. 295	
	−0. 24		+0. 10		−0. 12		+0. 12
. 385		. 930		. 757		. 307	
	−0. 23		+0. 09		−0. 11		+0. 11
. 396		1912. 972		. 774		. 320	
	−0. 22		+0. 08		−0. 10		+0. 10
. 407		1913. 010		. 791		. 332	
	−0. 21		+0. 07		−0. 09		+0. 09
. 417		. 046		. 806		. 345	
	−0. 20		+0. 06		−0. 08		+0. 08
. 425		. 078		. 821		. 358	
	−0. 19		+0. 05		−0. 07		+0. 07
. 433		. 100		. 834		. 372	
	−0. 18		+0. 04		−0. 06		+0. 06
. 440		. 122		. 848		. 385	
	−0. 17		+0. 03		−0. 05		+0. 05
. 448		. 140		. 861		. 397	
	−0. 16		+0. 02		−0. 04		+0. 04
. 454		. 156		. 873		. 410	
	−0. 15		+0. 01		−0. 03		+0. 03
. 460		. 170		. 885		. 424	
	−0. 14		0. 00		−0. 02		+0. 02
. 466		. 184		. 897		. 436	
	−0. 13		−0. 01		−0. 01		+0. 01
. 473		. 195		. 909		. 449	
	−0. 12		−0. 02		0. 00		0. 00
. 480		. 205		. 921		. 464	
	−0. 11		−0. 03		+0. 01		−0. 01
. 486		. 217		. 933		. 477	
	−0. 10		−0. 04		+0. 02		−0. 02
. 492		. 229		. 945		. 490	
	−0. 09		−0. 05		+0. 03		−0. 03
. 498		. 240		. 958		. 505	
	−0. 08		−0. 06		+0. 04		−0. 04
. 504		. 252		. 971		. 520	
	−0. 07		−0. 07		+0. 05		−0. 05
. 510		. 264		. 984		. 534	
	−0. 06		−0. 08		+0. 06		−0. 06
. 517		. 275		1913. 996		. 549	
	−0. 05		−0. 09		+0. 07		−0. 07
. 524		. 285		1914. 009		. 563	
	−0. 04		−0. 10		+0. 08		−0. 08
. 531		. 296		. 023		. 579	
	−0. 03		−0. 11		+0. 09		−0. 09
. 540		. 308		. 037		. 594	

TABLE VIII.—*The Corrections to the Observed Declinations for Variation of Latitude*—Continued

[The corrections change sign for declinations observed below the pole]

Date	Δδ	Date	Δδ	Date	Δδ	Date	Δδ
1914. 594	−0. 10	1915. 109	+0. 08	1915. 535	+0. 16	1915. 814	−0. 20
. 610	−0. 11	. 114	+0. 09	. 548	+0. 15	. 824	−0. 21
. 625	−0. 12	. 120	+0. 10	. 558	+0. 14	. 836	−0. 22
. 641	−0. 13	. 126	+0. 11	. 570	+0. 13	. 854	−0. 23
. 659	−0. 14	. 131	+0. 12	. 581	+0. 12	. 878	−0. 24
. 676	−0. 15	. 136	+0. 13	. 592	+0. 11	. 935	−0. 23
. 694	−0. 16	. 142	+0. 14	. 602	+0. 10	. 960	−0. 22
. 712	−0. 17	. 148	+0. 15	. 613	+0. 09	. 976	−0. 21
. 736	−0. 18	. 153	+0. 16	. 624	+0. 08	1915. 990	−0. 20
. 760	−0. 19	. 159	+0. 17	. 633	+0. 07	1916. 002	−0. 19
. 835	−0. 18	. 164	+0. 18	. 642	+0. 06	. 014	−0. 18
. 860	−0. 17	. 171	+0. 19	. 650	+0. 05	. 023	−0. 17
. 881	−0. 16	. 177	+0. 20	. 660	+0. 04	. 033	−0. 16
. 898	−0. 15	. 182	+0. 21	. 668	+0. 03	. 042	−0. 15
. 916	−0. 14	. 189	+0. 22	. 675	+0. 02	. 051	−0. 14
. 931	−0. 13	. 196	+0. 23	. 684	+0. 01	. 060	−0. 13
. 946	−0. 12	. 204	+0. 24	. 692	0. 00	. 070	−0. 12
. 960	−0. 11	. 211	+0. 25	. 698	−0. 01	. 080	−0. 11
. 973	−0. 10	. 219	+0. 26	. 704	−0. 02	. 087	−0. 10
. 986	−0. 09	. 225	+0. 27	. 710	−0. 03	. 094	−0. 09
1914. 998	−0. 08	. 236	+0. 28	. 716	−0. 04	. 103	−0. 08
1915. 009	−0. 07	. 250	+0. 29	. 722	−0. 05	. 110	−0. 07
. 020	−0. 06	. 268	+0. 30	. 728	−0. 06	. 116	−0. 06
. 027	−0. 05	. 341	+0. 29	. 733	−0. 07	. 122	−0. 05
. 034	−0. 04	. 365	+0. 28	. 740	−0. 08	. 129	−0. 04
. 043	−0. 03	. 382	+0. 27	. 747	−0. 09	. 135	−0. 03
. 051	−0. 02	. 396	+0. 26	. 752	−0. 10	. 141	−0. 02
. 057	−0. 01	. 413	+0. 25	. 758	−0. 11	. 147	−0. 01
. 063	0. 00	. 426	+0. 24	. 763	−0. 12	. 153	0. 00
. 070	+0. 01	. 441	+0. 23	. 770	−0. 13	. 160	+0. 01
. 076	+0. 02	. 456	+0. 22	. 775	−0. 14	. 166	+0. 02
. 082	+0. 03	. 470	+0. 21	. 782	−0. 15	. 174	+0. 03
. 088	+0. 04	. 484	+0. 20	. 787	−0. 16	. 180	+0. 04
. 093	+0. 05	. 497	+0. 19	. 793	−0. 17	. 186	+0. 05
. 098	+0. 06	. 510	+0. 18	. 798	−0. 18	. 194	+0. 06
. 104	+0. 07	. 522	+0. 17	. 805	−0. 19	. 202	+0. 07
. 109		. 535		. 814		. 209	

TABLE VIII.—*The Corrections to the Observed Declinations for Variation of Latitude*—Continued

[The corrections change sign for declinations observed below the pole]

Date	Δδ	Date	Δδ	Date	Δδ	Date	Δδ
1916. 209	″ +0. 08	1916. 768	″ −0. 04	1917. 260	″ 0. 00	1917. 854	″ +0. 02
. 218	+0. 09	. 774	−0. 05	. 274	+0. 01	. 868	+0. 01
. 226	+0. 10	. 782	−0. 06	. 286	+0. 02	. 880	0. 00
. 235	+0. 11	. 789	−0. 07	. 300	+0. 03	. 894	−0. 01
. 245	+0. 12	. 796	−0. 08	. 315	+0. 04	. 910	−0. 02
. 255	+0. 13	. 805	−0. 09	. 330	+0. 05	. 928	−0. 03
. 266	+0. 14	. 814	−0. 10	. 345	+0. 06	. 945	−0. 04
. 280	+0. 15	. 822	−0. 11	. 359	+0. 07	. 965	−0. 05
. 296	+0. 16	. 832	−0. 12	. 373	+0. 08	1917. 984	−0. 06
. 312	+0. 17	. 841	−0. 13	. 388	+0. 09	1918. 003	−0. 07
. 331	+0. 18	. 852	−0. 14	. 401	+0. 10	. 027	−0. 08
. 360	+0. 19	. 865	−0. 15	. 416	+0. 11	. 051	−0. 09
. 400	+0. 20	. 878	−0. 16	. 432	+0. 12	. 075	−0. 10
. 515	+0. 19	. 895	−0. 17	. 448	+0. 13	. 100	−0. 11
. 552	+0. 18	. 915	−0. 18	. 463	+0. 14	. 125	−0. 12
. 575	+0. 17	. 934	−0. 19	. 480	+0. 15	. 160	−0. 13
. 591	+0. 16	1916. 955	−0. 20	. 496	+0. 16	. 230	−0. 12
. 604	+0. 15	1917. 036	−0. 19	. 513	+0. 17	. 253	−0. 11
. 614	+0. 14	. 057	−0. 18	. 530	+0. 18	. 272	−0. 10
. 626	+0. 13	. 075	−0. 17	. 557	+0. 19	. 290	−0. 09
. 636	+0. 12	. 086	−0. 16	. 620	+0. 18	. 310	−0. 08
. 648	+0. 11	. 097	−0. 15	. 644	+0. 17	. 329	−0. 07
. 659	+0. 10	. 106	−0. 14	. 663	+0. 16	. 349	−0. 06
. 667	+0. 09	. 116	−0. 13	. 678	+0. 15	. 370	−0. 05
. 675	+0. 08	. 127	−0. 12	. 693	+0. 14	. 390	−0. 04
. 684	+0. 07	. 137	−0. 11	. 707	+0. 13	. 410	−0. 03
. 693	+0. 06	. 146	−0. 10	. 720	+0. 12	. 431	−0. 02
. 702	+0. 05	. 156	−0. 09	. 734	+0. 11	. 453	−0. 01
. 710	+0. 04	. 167	−0. 08	. 747	+0. 10	. 474	0. 00
. 718	+0. 03	. 178	−0. 07	. 760	+0. 09	. 496	+0. 01
. 725	+0. 02	. 190	−0. 06	. 773	+0. 08	. 520	+0. 02
. 733	+0. 01	. 202	−0. 05	. 787	+0. 07	. 540	+0. 03
. 738	0. 00	. 213	−0. 04	. 802	+0. 06	. 563	+0. 04
. 744	−0. 01	. 225	−0. 03	. 815	+0. 05	. 589	+0. 05
. 753	−0. 02	. 236	−0. 02	. 828	+0. 04	. 610	+0. 06
. 760	−0 03	. 248	−0. 01	. 840	+0. 03	. 636	
. 768		. 260		. 854			

TABLE IX.—*The Corrections to the Observed Declinations of Stars for Relative Personality of Observers, 1911–1918*

[The signs should be changed for reflected observations and for observations made at lower culmination]

Observer	Fn.		R.		T.		Wy.		An.	
Clamp	East	West	East	West	East	West	East	West	East	West
	″	″	″	″	″	″	″	″	″	″
South of Zenith	+0. 12	+0. 05	+0. 02	+0. 21	+0. 17	+0. 17	+0. 22	−0. 04	+0. 44	+0. 15
North of Zenith	+0. 12	+0. 05	−0. 11	+0. 08	+0. 04	+0. 04	+0. 01	−0. 25	+0. 06	−0. 23

TABLE X.—*The Corrections to the Observed Declinations for Flexure, Including Terms to Reduce Each Position to the Mean of All*

δ	Clamp East				Clamp West			
	Direct		Reflected		Direct		Reflected	
	Circle A	Circle B	Circle A	Circle B	Circle A	Circle B	Circle A	Circle B
	Position I (January, 1909–October, 1910)							
°	″	″	″	″	″	″	″	″
−35	−0. 28	−0. 10	+0. 30	+0. 08	−0. 26	−0. 44	+0. 24	+0. 46
−25	− . 25	− . 09	+ . 29	+ . 05	− . 25	− . 41	+ . 21	+ . 45
−15	− . 23	− . 08	+ . 27	+ . 02	− . 23	− . 38	+ . 19	+ . 44
− 5	− . 18	− . 05	+ . 24	− . 03	− . 20	− . 33	+ . 14	+ . 41
+ 5	− . 15	− . 02	+ . 21	− . 06	− . 17	− . 30	+ . 11	+ . 38
+15	− . 09	+ . 02	+ . 17	− . 12	− . 13	− . 24	+ . 05	+ . 34
+25	− . 05	+ . 06	+ . 13	− . 16	− . 09	− . 20	+ . 01	+ . 30
+35	. 00	+ . 11	+ . 08	− . 21	− . 04	− . 15	− . 04	+ . 25
+45	+ . 05	+ . 16	+ . 03	− . 26	+ . 01	− . 10	− . 09	+ . 20
+55	+ . 10	+ . 21	− . 02	− . 31	+ . 06	− . 05	− . 14	+ . 15
+65	+ . 14	+ . 26	− . 06	− . 34	+ . 10	− . 02	− . 18	+ . 10
+75	+ . 18	+ . 31	− . 12	− . 39	+ . 16	+ . 03	− . 22	+ . 05
+85	+ . 21	+ . 35	− . 15	− . 41	+ . 19	+ . 05	− . 25	+ . 01
+90	+ . 22	+ . 36	− . 17	− . 42	+ . 21	+ . 06	− . 26	. 00
+90 S. P.	− . 22	− . 36	+ . 17	+ . 42	− . 21	− . 06	+ . 26	. 00
+85 S. P.	− . 23	− . 38	+ . 19	+ . 44	− . 23	− . 08	+ . 27	+ . 02
+75 S. P.	− . 25	− . 41	+ . 21	+ . 45	− . 25	− . 09	+ . 29	+ . 05
+65 S. P.	− . 26	− . 44	+ . 24	+ . 46	− . 28	− . 10	+ . 30	+ . 08

TABLE X.—*The Corrections to the Observed Declinations for Flexure, Including Terms to Reduce Each Position to the Mean of All*—Continued

δ	Clamp East				Clamp West			
	Direct		Reflected		Direct		Reflected	
	Circle A	Circle B	Circle A	Circle B	Circle A	Circle B	Circle A	Circle B
	Position II (October–December, 1910)							
°	″	″	″	″	″	″	″	″
−35	+0.10	0.00	−0.02	+0.08	+0.10	+0.20	−0.18	−0.28
−25	+ .11	+ .02	+ .01	+ .12	+ .07	+ .16	− .19	− .30
−15	+ .12	+ .03	+ .04	+ .15	+ .04	+ .13	− .20	− .31
− 5	+ .12	+ .05	+ .06	+ .19	+ .02	+ .09	− .20	− .33
+ 5	+ .13	+ .05	+ .09	+ .21	− .01	+ .07	− .21	− .33
+15	+ .12	+ .05	+ .12	+ .25	− .04	+ .03	− .20	− .33
+25	+ .11	+ .04	+ .15	+ .28	− .07	.00	− .19	− .32
+35	+ .10	+ .03	+ .16	+ .29	− .08	− .01	− .18	− .31
+45	+ .08	+ .01	+ .18	+ .31	− .10	− .03	− .16	− .29
+55	+ .05	− .02	+ .19	+ .32	− .11	− .04	− .13	− .26
+65	+ .04	− .04	+ .20	+ .32	− .12	− .04	− .12	− .24
+75	+ .01	− .07	+ .21	+ .33	− .13	− .05	− .09	− .21
+85	− .02	− .10	+ .20	+ .32	− .12	− .04	− .06	− .18
+90	− .04	− .12	+ .20	+ .32	− .12	− .04	− .04	− .16
+90 S. P.	+ .04	+ .12	− .20	− .32	+ .12	+ .04	+ .04	+ .16
+85 S. P.	+ .05	+ .13	− .19	− .31	+ .11	+ .03	+ .03	+ .15
+75 S. P.	+ .08	+ .16	− .18	− .30	+ .10	+ .02	.00	+ .12
+65 S. P.	+ .11	+ .20	− .17	− .28	+ .09	.00	− .03	+ .08

δ	Position II_1 (May, 1911–October, 1913)				Position I (October, 1913–June, 1917)				Position II_2 (June, 1917–August, 1918)			
	Clamp East		Clamp West		Clamp East		Clamp West		Clamp East		Clamp West	
	Direct	Reflected	Direct	Reflected	Direct	Reflected	Direct	Reflected	Direct	Reflected	Direct	Reflected
°	″	″	″	″	″	″	″	″	″	″	″	″
−45	−0.15	+0.12	+0.20	−0.24	−0.34	+0.24	−0.14	+0.08	−0.34	+0.47	+0.10	+0.01
−35	− .23	+ .05	+ .12	− .31	− .36	+ .21	− .12	+ .08	− .24	+ .55	+ .18	+ .08
−25	− .28	.00	+ .06	− .37	− .37	+ .17	− .10	+ .07	− .16	+ .62	+ .25	+ .13
−15	− .32	− .03	+ .02	− .40	− .37	+ .14	− .08	+ .06	− .10	+ .65	+ .30	+ .15
− 5	− .34	− .04	+ .01	− .41	− .36	+ .10	− .05	+ .05	− .05	+ .65	+ .33	+ .13
+ 5	− .33	− .01	+ .02	− .39	− .34	+ .07	− .01	+ .04	− .04	+ .61	+ .33	+ .08
+15	− .29	+ .04	+ .05	− .35	− .31	+ .04	+ .04	+ .02	− .06	+ .54	+ .30	.00
+25	− .23	+ .11	+ .10	− .28	− .27	.00	+ .08	.00	− .10	+ .44	+ .26	− .10
+35	− .17	+ .19	+ .16	− .20	− .23	− .02	+ .13	− .02	− .15	+ .32	+ .21	− .22
+45	− .10	+ .27	+ .24	− .11	− .18	− .04	+ .18	− .04	− .21	+ .20	+ .15	− .34
+55	− .03	+ .35	+ .31	− .03	− .13	− .07	+ .22	− .07	− .26	+ .09	+ .10	− .45
+65	+ .02	+ .42	+ .36	+ .04	− .09	− .08	+ .25	− .10	− .30	− .01	+ .06	− .55
+75	+ .05	+ .46	+ .39	+ .08	− .04	− .10	+ .28	− .13	− .32	− .09	+ .05	− .61
+85	+ .05	+ .47	+ .40	+ .10	.00	− .11	+ .30	− .17	− .32	− .13	+ .07	− .64
+90	+ .04	+ .47	+ .39	+ .10	+ .01	− .12	+ .30	− .19	− .30	− .13	+ .09	− .64
+90 S. P.	− .04	− .47	− .39	− .10	− .01	+ .12	− .30	+ .19	+ .30	+ .13	− .09	+ .64
+85 S. P.	− .02	− .46	− .38	− .09	− .03	+ .13	− .31	+ .20	+ .28	+ .13	− .11	+ .64
+75 S. P.	+ .03	− .42	− .33	− .05	− .05	+ .14	− .30	+ .24	+ .23	+ .11	− .18	+ .60
+65 S. P.	+ .09	− .36	− .27	+ .01	− .07	+ .14	− .29	+ .28	+ .15	+ .06	− .27	+ .53
+55 S. P.	+ .16	− .28	− .20	+ .08	− .08	+ .14	− .27	+ .31	+ .07	− .02	− .37	+ .44

TABLE XI.—*The Corrections to the Observed Declinations for Adopted Latitude and Refraction*

δ	Δδ 1909–1910	Δδ 1911–1918	δ	Δδ 1909–1910	Δδ 1911–1918	δ	Δδ 1909–1910	Δδ 1911–1918	δ	Δδ 1909–1910	Δδ 1911–1918
°	″	″	°	″	″	°	″	″	°	″	″
−46	----	+1.03	−34	−0.05	+0.11	+50	+0.06	−0.29	+67 S. P.	−0.16	+0.68
45	----	+0.82	33	−0.04	+0.09	60	+0.06	−0.32	66 S. P.	−0.17	+0.71
44	----	+0.66	32	−0.04	+0.07	70	+0.07	−0.34	65 S. P.	−0.17	+0.74
43	----	+0.55	31	−0.03	+0.05	80	+0.08	−0.37	64 S. P.	----	+0.78
42	----	+0.45	30	−0.03	+0.03	90	+0.09	−0.41	63 S. P.	----	+0.82
41	----	+0.38	20	0.00	−0.08	90 S. P.	−0.09	+0.41	62 S. P.	----	+0.87
40	−0.10	+0.32	−10	+0.02	−0.14	85 S. P.	−0.09	+0.44	61 S. P.	----	+0.93
39	−0.09	+0.27	0	+0.03	−0.18	80 S. P.	−0.10	+0.48	60 S. P.	----	+1.01
38	−0.08	+0.23	+10	+0.03	−0.21	75 S. P.	−0.12	+0.53	59 S. P.	----	+1.11
37	−0.07	+0.19	20	+0.04	−0.23	70 S. P.	−0.14	+0.61	58 S. P.	----	+1.23
36	−0.06	+0.16	30	+0.05	−0.25	69 S. P.	−0.14	+0.64	57 S. P.	----	+1.39
35	−0.05	+0.13	40	+0.05	−0.27	68 S. P.	−0.15	+0.66	+56 S. P.	----	+1.62
−34	−0.05	+0.11	+50	+0.06	−0.29	+67 S. P.	−0.16	+0.68			

TABLE XII.—*Day Corrections to the Observed Declinations of the Sun, Mercury, and Venus*

δ	Refractions based on Instrument Thermometer							Refractions based on External Thermometer						
	A. M. 9	A. M. 10	A. M. 11	Noon	P. M. 1	P. M. 2	P. M. 3	A. M. 9	A. M. 10	A. M. 11	Noon	P. M. 1	P. M. 2	P. M. 3
°	″	″	″	″	″	″	″	″	″	″	″	″	″	″
−25	−0.33	−0.35	−0.41	−0.42	−0.41	−0.34	−0.17	−0.23	−0.20	−0.16	−0.12	−0.09	0.00	+0.08
−20	−0.31	−0.35	−0.37	−0.38	−0.34	−0.26	−0.13	−0.22	−0.19	−0.15	−0.11	−0.07	+0.02	+0.08
−15	−0.27	−0.31	−0.31	−0.28	−0.24	−0.14	−0.06	−0.18	−0.17	−0.18	−0.07	−0.01	+0.06	+0.10
−10	−0.19	−0.22	−0.20	−0.14	−0.06	+0.01	+0.05	−0.13	−0.13	−0.08	+0.01	+0.08	+0.13	+0.15
− 5	−0.08	−0.08	0.00	+0.02	+0.10	+0.16	+0.18	−0.02	−0.01	+0.09	+0.15	+0.23	+0.26	+0.25
0	+0.05	+0.10	+0.18	+0.21	+0.27	+0.32	+0.33	+0.11	+0.18	+0.29	+0.34	+0.41	+0.44	+0.41
+ 5	+0.19	+0.27	+0.34	+0.39	+0.43	+0.48	+0.48	+0.24	+0.35	+0.46	+0.52	+0.56	+0.58	+0.56
+10	+0.25	+0.35	+0.43	+0.50	+0.52	+0.54	+0.52	+0.27	+0.43	+0.52	+0.60	+0.63	+0.63	+0.59
+15	+0.27	+0.38	+0.45	+0.50	+0.53	+0.54	+0.50	+0.28	+0.42	+0.52	+0.59	+0.62	+0.61	+0.55
+20	+0.25	+0.34	+0.42	+0.47	+0.52	+0.51	+0.48	+0.25	+0.36	+0.44	+0.52	+0.55	+0.54	+0.51
+25	+0.20	+0.28	+0.35	+0.42	+0.48	+0.46	+0.44	+0.20	+0.28	+0.35	+0.45	+0.48	+0.49	+0.46

RESULTS OF OBSERVATIONS OF THE SUN, MERCURY, AND VENUS

SUN

[No corrections have been applied for personal equation, for equinox, or for the difference day minus night]

Date	Observer	Instrument	Apparent Right Ascension of Center	Correction to Am. Eph.	Sidereal Time of Transit of Semi-diameter	Correction to Am. Eph.	Apparent Declination of Center	Correction to Am. Eph.	Red. for External Therm.	Vertical Semi-diameter	Correction to Am. Eph.
1911			h m s	s	s	s	° ′ ″	″	″	′ ″	″
May 17	T.	WII	3 33 18.14	+0.03	67.16	−0.12	+19 11 5.8	−0.9	*0.0*	15 49.7	−0.9
18	Fn.	WII	3 37 16.13	+0.04	67.28	−0.08	+19 24 40.3	−0.7	*−0.1*	15 49.2	−1.2
19	Hd.	WII	3 41 14.76	+0.12	67.37	−0.07	+19 37 52.6	−3.0	*0.0*	15 49.0	−1.2
20	T.	WII	3 45 13.92	+0.15	67.43	−0.09	+19 50 48.3	−2.0	*0.0*	15 49.3	−0.7
22	Fn.	WII	3 53 13.86	+0.13	67.60	−0.07	+20 15 36.4	−2.7	*−0.1*	15 49.0	−0.6
23	Hd.	EII	3 57 14.57	+0.03	67.70	−0.04	+20 27 32.2	−0.4	*−0.1*	15 48.5	−0.9
25	Fn.	EII	4 5 18.00	+0.20	67.83	−0.06	+20 50 13.8	−2.6	*−0.1*	15 47.9	−1.2
29	Fn.	WII	4 21 30.47	+0.06	68.08	−0.08	+21 31 23.4	−0.9	*−0.1*	15 48.1	−0.3
June 1	Fn.	WII	4 33 44.79	+0.12	68.28	−0.07	+21 58 20.3	−1.1	*−0.1*	15 47.9	−0.1
2	Hd.	WII	4 37 50.36	+0.13	68.33	−0.07	+22 6 33.2	−1.5	*−0.1*	15 46.4	−1.5
9	Hd.	WII	5 6 38.86	+0.13	68.73	0.00	+22 53 7.9	−1.3	*−0.1*	15 46.9	−0.2
10	T.	EII	5 10 46.87	+0.05	68.71	−0.05	+22 58 12.6	−0.4	*−0.1*	15 47.7	+0.7
12	Fn.	EII	5 19 3.75	+0.05	68.66	−0.16	+23 7 7.0	−0.9	*0.0*	15 45.0	−1.8
13	Hd.	EII	5 23 12.59	+0.13	68.84	−0.01	+23 11 0.0	+1.2	*−0.1*	15 45.5	−1.2
15	Fn.	EII	- - -- -----	----	-----	----	+23 17 26.2	−1.0	*0.0*	15 45.3	−1.2
20	Hd.	EII	5 52 17.99	+0.18	68.92	−0.02	+23 26 27.4	+0.4	*−0.1*	15 45.2	−0.9
21	T.	EII	5 56 27.60	+0.13	68.92	−0.02	+23 26 59.4	−1.3	*−0.1*	15 45.1	−0.9
22	Fn.	EII	6 0 37.27	+0.12	68.96	+0.02	+23 27 7.7	−1.8	*−0.1*	15 45.2	−0.8
23	Hd.	EII	6 4 46.95	+0.13	68.94	+0.01	+23 26 53.1	−0.4	*−0.1*	15 47.9	+2.0
24	T.	EII	6 8 56.41	−0.03	68.93	+0.01	+23 26 12.2	−0.5	*−0.1*	15 44.7	−1.2
27	Hd.	WII	6 21 24.90	+0.13	68.77	−0.11	+23 21 39.9	−1.7	*−0.1*	15 44.3	−1.4
28	T.	WII	6 25 33.97	+0.02	68.85	0.00	+23 19 20.5	−1.3	*−0.1*	15 45.2	−0.5
29	Fn.	WII	6 29 43.03	+0.09	68.83	0.00	+23 16 34.9	−2.5	*−0.1*	15 45.9	+0.2
30	Hd.	WII	6 33 51.91	+0.19	68.80	0.00	+23 13 27.1	−1.3	*0.0*	15 45.6	−0.1
July 1	R.	WII	6 38 0.19	−0.07	68.60	−0.17	+23 9 53.0	−1.9	*0.0*	15 46.4	+0.7
3	Fn.	EII	6 46 16.63	+0.10	68.60	−0.10	+23 1 33.7	−1.4	*0.0*	15 44.1	−1.6
5	R.	EII	6 54 31.59	0.00	68.67	+0.05	+22 51 38.6	−0.5	*0.0*	15 46.5	+0.8
6	Fn.	EII	6 58 38.75	+0.13	68.50	−0.07	+22 46 2.8	−2.4	*0.0*	15 45.3	−0.4
7	Hd.	EII	7 2 45.41	+0.12	68.44	−0.08	+22 40 7.1	−0.5	*0.0*	15 44.3	−1.4
10	Fn.	WII	7 15 3.11	+0.13	68.36	0.00	+22 19 52.0	−2.0	*−0.1*	15 45.1	−0.7
11	Hd.	WII	7 19 8.24	+0.17	68.25	−0.05	+22 12 21.7	−1.4	*−0.1*	15 45.2	−0.6
13	Fn.	WII	7 27 17.10	+0.17	68.07	−0.10	+21 56 11.3	−1.7	*0.0*	15 46.1	+0.2
15	R.	WII	7 35 24.16	+0.20	68.11	+0.07	+21 38 31.4	−1.4	*0.0*	15 47.9	+1.9
19	R.	EII	7 51 32.26	+0.07	67.64	−0.10	+20 58 47.1	−0.8	*0.0*	15 45.1	−1.1
20	Fn.	EII	7 55 33.11	+0.12	67.62	−0.05	+20 47 56.2	−1.7	*0.0*	15 45.7	−0.5
21	Hd.	EII	7 59 33.39	+0.14	67.58	−0.01	+20 36 46.3	−0.4	*−0.1*	15 45.2	−1.1
22	R.	EII	8 3 33.05	+0.09	67.52	+0.01	+20 25 13.8	−0.8	*−0.1*	15 46.3	−0.1
24	Fn.	EII	8 11 30.86	+0.14	67.31	−0.04	+20 1 7.2	−1.6	*−0.1*	15 45.8	−0.7
25	Hd.	EII	8 15 28.91	+0.17	67.34	+0.08	+19 48 36.7	+0.9	*−0.2*	15 46.6	0.0
26	R.	WII	8 19 26.19	+0.01	67.34	+0.16	+19 35 40.6	−2.2	*−0.1*	15 47.9	+1.2
27	Fn.	WII	8 23 23.15	+0.13	67.00	−0.09	+19 22 29.2	−1.1	*−0.1*	15 46.3	−0.5
28	Hd.	WII	8 27 19.37	+0.12	66.92	−0.09	+19 8 57.6	−0.9	*0.0*	15 45.5	−1.4
29	R.	WII	8 31 14.97	+0.11	67.01	+0.09	+18 55 4.9	−2.8	*−0.1*	15 47.7	+0.7
31	Fn.	WII	8 39 4.25	+0.05	66.63	−0.12	+18 26 28.9	−1.6	*−0.1*	15 46.5	−0.8
Aug. 1	Hd.	WII	8 42 58.03	+0.09	66.56	−0.10	+18 11 43.4	−1.2	*0.0*	15 45.9	−1.5
2	R.	WII	8 46 51.10	+0.04	66.56	−0.02	+17 56 40.3	−0.7	*−0.1*	15 48.0	+0.5
7	Fn.	WII	9 6 7.43	+0.12	66.06	−0.09	+16 37 4.1	−2.2	*−0.2*	15 47.6	−0.6
8	R.	EII	9 9 56.89	+0.15	66.08	+0.02	+16 20 21.4	−0.8	*0.0*	15 48.5	+0.1
9	Fn.	EII	- - ----	-----	-----	----	+16 3 20.2	−2.2	*0.0*	15 46.2	−2.3
10	R.	EII	9 17 33.87	+0.06	65.93	+0.04	+15 46 5.4	−1.5	*−0.2*	15 49.6	+0.9

SUN

[No corrections have been applied for personal equation, for equinox, or for the difference day minus night]

Date	Observer	Instrument	Apparent Right Ascension of Center	Correction to Am. Eph.	Sidereal Time of Transit of Semi-diameter	Correction to Am. Eph.	Apparent Declination of Center	Correction to Am. Eph.	Red. for External Therm.	Vertical Semi-diameter	Correction to Am. Eph.
1911			h m s	s	s	s	° ′ ″	″	″	′ ″	″
Aug. 11	Fn.	EII	9 21 21.64	+0.16	65.69	−0.12	+15 28 35.9	−0.5	*−0.1*	15 48.5	−0.3
14	Fn.	EII	9 32 41.23	+0.07	65.42	−0.14	+14 34 35.9	−1.1	*0.0*	15 47.8	−1.5
16	Fn.	EII	9 40 11.68	+0.08	65.28	−0.12	+13 57 26.1	−0.8	*−0.1*	15 48.6	−1.1
17	R.	EII	9 43 56.24	+0.18	65.44	+0.11	+13 38 30.8	−0.8	*−0.1*	15 51.9	+2.1
18	Fn.	EII	-- -- -----	----	-----	----	+13 19 22.3	−0.9	*−0.1*	15 48.9	−1.1
19	R.	EII	9 51 23.58	+0.10	65.22	+0.04	+13 0 1.0	−1.0	*−0.1*	15 51.6	+1.4
21	Fn.	EII	9 58 49.18	+0.21	64.97	−0.07	+12 20 41.0	−1.4	*−0.3*	15 51.7	+1.1
22	R.	EII	10 2 31.12	+0.10	65.07	+0.10	+12 0 44.6	0.0	*−0.2*	15 53.7	+2.9
23	Fn.	WII	10 6 12.79	+0.17	64.77	−0.13	+11 40 34.5	−0.9	*−0.2*	15 49.9	−1.1
24	R.	WII	10 9 53.98	+0.20	64.94	+0.10	+11 20 14.2	−0.9	*−0.1*	15 53.0	+1.8
28	Fn.	WII	10 24 34.24	+0.09	64.56	−0.04	+ 9 57 8.4	−0.8	*0.0*	15 50.1	−1.9
Sept. 1	Fn.	WII	10 39 8.39	+0.06	64.33	−0.07	+ 8 31 32.7	+0.1	*−0.2*	15 51.7	−1.2
2	R.	WII	10 42 46.16	+0.14	64.38	+0.02	+ 8 9 46.8	−0.6	*−0.1*	15 53.6	+0.4
5	Fn.	WII	10 53 37.48	+0.16	64.16	−0.08	+ 7 3 46.1	−0.6	*−0.1*	15 53.2	−0.7
6	R.	WII	10 57 14.08	+0.18	64.24	+0.04	+ 6 41 30.7	−1.6	*−0.1*	15 55.6	+1.5
7	Fn.	WII	11 0 50.43	+0.18	64.07	−0.10	+ 6 19 10.0	−1.3	*0.0*	15 53.4	−1.0
14	Fn.	WII	11 26 0.33	+0.10	63.93	−0.10	+ 3 40 7.9	0.0	*−0.2*	15 54.8	−1.3
19	Hd.	WII	11 43 56.98	+0.22	63.95	−0.06	+ 1 44 19.9	−2.3	*−0.2*	15 56.6	−0.8
20	R.	WII	11 47 32.28	+0.16	64.06	+0.04	+ 1 21 2.6	−1.8	*−0.1*	15 58.3	+0.7
22	Hd.	WII	11 54 43.22	+0.19	63.96	−0.08	+ 0 34 21.5	−1.5	*−0.1*	15 56.6	−1.6
23	R.	WII	11 58 18.70	+0.09	63.98	−0.07	+ 0 10 58.8	−1.4	*−0.2*	15 58.3	−0.1
25	Fn.	EII	12 5 30.16	+0.04	64.00	−0.09	− 0 35 49.4	−1.6	*−0.3*	15 57.2	−1.8
30	R.	EII	12 23 31.93	+0.21	64.30	+0.05	− 2 32 46.4	−1.2	*−0.2*	16 0.0	−0.4
Oct. 4	Hd.	EII	12 38 1.28	+0.06	64.37	−0.06	− 4 5 51.4	+0.9	*−0.2*	16 0.4	−1.1
5	Hd.	EII	12 41 39.47	+0.11	64.36	−0.12	− 4 29 2.4	+0.1	*−0.4*	15 59.7	−2.1
6	Hd.	EII	12 45 18.05	+0.20	64.44	−0.09	− 4 52 9.4	0.0	*−0.2*	16 0.8	−1.3
9	Fn.	WII	12 56 15.83	+0.18	64.64	−0.07	− 6 1 7.6	−0.7	*−0.4*	16 2.1	−0.8
11	Fn.	WII	13 3 36.51	+0.17	64.77	−0.08	− 6 46 41.9	+0.4	*−0.3*	16 2.1	−1.3
13	Fn.	WII	13 10 59.15	+0.16	64.92	−0.07	− 7 31 56.2	+0.3	*−0.6*	16 4.4	+0.4
18	Hd.	WII	13 29 35.41	+0.16	65.34	−0.06	− 9 23 9.6	−0.4	*−0.3*	16 3.7	−1.6
19	Hd.	WII	-- -- -----	----	-----	----	− 9 45 2.0	−0.6	*−0.3*	16 4.2	−1.4
23	R.	WII	13 48 27.06	+0.23	66.03	+0.17	−11 10 59.7	+1.9	*−0.7*	16 8.8	+2.1
24	Fn.	WII	13 52 15.31	+0.18	65.92	−0.04	−11 32 6.8	+0.6	*−0.6*	16 6.4	−0.5
25	R.	WII	13 56 4.35	+0.23	66.08	+0.01	−11 53 2.9	−0.3	*−0.5*	16 7.4	+0.2
26	R.	WII	13 59 53.97	+0.16	66.14	−0.03	−12 13 47.4	−0.5	*0.0*	16 6.2	−1.3
27	R.	WII	14 3 44.41	+0.20	66.34	+0.06	−12 34 20.4	−0.6	*−0.2*	16 8.4	+0.7
30	R.	EII	14 15 20.03	+0.22	66.52	−0.08	−13 34 45.4	+1.0	*−0.3*	16 8.8	+0.3
Nov. 2	R.	EII	14 27 2.39	+0.13	67.00	+0.06	−14 33 14.2	+2.0	*−0.5*	16 10.8	+1.5
3	R.	EII	14 30 58.19	+0.22	67.22	+0.16	−14 52 17.8	+0.4	*−0.5*	16 13.5	+3.9
7	Fn.	EII	14 46 49.01	+0.09	67.44	−0.09	−16 5 57.2	−0.3	*−0.3*	16 9.1	−1.4
10	Fn.	EII	14 58 51.13	+0.19	67.78	−0.11	−16 58 23.3	+0.2	*−0.3*	16 11.1	−0.1
11	Fn.	EII	15 2 53.48	+0.14	67.86	−0.15	−17 15 18.4	0.0	*−0.3*	16 10.4	−1.0
13	Hd.	EII	15 11 0.97	+0.21	68.27	+0.03	−17 48 13.5	+1.3	*−1.0*	16 12.3	+0.4
16	Hd.	EII	15 23 18.62	+0.17	68.58	−0.02	−18 35 19.4	+0.8	*−0.5*	16 11.3	−1.2
17	Hd.	EII	15 27 26.26	+0.20	68.64	−0.08	−18 50 22.6	+0.7	*−0.3*	16 11.4	−1.3
18	Hd.	EII	15 31 34.74	+0.22	68.78	−0.05	−19 5 6.0	+0.3	*−0.4*	16 10.8	−2.1
20	R.	EII	15 39 54.07	+0.09	69.06	0.00	−19 33 29.7	+0.7	*−0.3*	16 14.1	+0.8
22	R.	EII	15 48 16.88	+0.15	69.30	+0.02	−20 0 28.6	+0.8	*−0.5*	16 14.8	+1.1
23	Fn.	EII	15 52 29.26	−0.05	69.18	−0.21	−20 13 27.0	−0.9	*−0.3*	16 15.3	+1.4
27	Hd.	WII	16 9 27.36	+0.06	69.72	−0.09	−21 1 24.2	+1.3	*−0.4*	16 11.8	−2.8

SUN

[No corrections have been applied for personal equation, for equinox, or for the difference day minus night]

Date	Observer	Instrument	Apparent Right Ascension of Center	Correction to Am. Eph.	Sidereal Time of Transit of Semi-diameter	Correction to Am. Eph.	Apparent Declination of Center	Correction to Am. Eph.	Red. for External Therm.	Vertical Semi-diameter	Correction to Am. Eph.
1911			h m s	s	s	s	° ′ ″	″	″	′ ″	″
Dec. 1	Hd.	WII	16 26 36.84	+0.14	70.14	−0.06	−21 43 4.0	+0.6	−0.6	16 15.9	+0.6
2	Hd.	WII	16 30 55.84	+0.14	70.22	−0.07	−21 52 28.0	−0.2	−0.1	16 14.0	−1.5
4	R.	WII	16 39 35.68	+0.12	70.58	+0.13	−22 9 58.6	−0.6	−0.6	16 17.7	+1.9
5	R.	WII	16 43 56.50	+0.13	70.72	+0.19	−22 18 3.5	+1.2	−0.5	16 18.8	+2.9
6	R.	WII	16 48 17.93	+0.18	70.66	+0.05	−22 25 45.2	+0.3	−0.3	16 18.4	+2.4
8	R.	WII	16 57 2.23	+0.09	70.72	−0.03	−22 39 47.8	+0.5	−0.6	16 17.0	+0.7
11	Hd.	EII	17 10 12.55	+0.14	70.84	−0.09	−22 57 31.8	+0.5	−0.1	16 14.2	−2.4
19	R.	EII	17 45 36.18	+0.17	71.26	+0.04	−23 24 40.5	+1.1	−0.6	16 18.2	+0.9
20	R.	EII	-- -- -----	----	-----	----	−23 25 56.8	+2.4	−1.0	16 15.2	−2.2
28	Hd.	EII	18 25 35.26	+0.10	71.16	−0.05	−23 19 19.4	+1.4	−0.7	16 17.5	−0.3
1912											
Jan. 2	R.	EII	18 47 43.46	+0.27	71.04	0.00	−22 59 55.2	+2.3	−0.6	16 18.6	+0.7
4	R.	EII	18 56 32.41	+0.18	70.99	+0.05	−22 48 55.8	+2.9	−0.5	16 18.4	+0.5
5	R.	EII	-- -- -----	----	-----	----	−22 42 47.8	+0.7	−0.6	16 16.5	−1.4
9	Fn.	EII	19 18 27.82	+0.20	70.56	−0.07	−22 13 39.1	+0.5	−0.7	16 17.0	−0.8
10	Fn.	EII	19 22 49.42	+0.15	70.50	−0.06	−22 5 14.8	+1.6	−0.6	16 17.5	−0.3
17	Hd.	WII	19 53 4.68	+0.11	69.88	−0.08	−20 54 41.1	+0.6	−0.3	16 16.5	−0.8
22	Fn.	WII	20 14 21.09	+0.20	69.36	−0.09	−19 52 11.0	+1.6	−0.3	16 16.5	−0.4
23	R.	EII	20 18 33.97	+0.09	69.32	−0.02	−19 38 34.8	0.0	−0.2	16 16.4	−0.4
24	R.	EII	20 22 46.32	+0.24	69.30	+0.06	−19 24 35.8	−0.7	−0.4	16 18.1	+1.4
25	Fn.	EII	20 26 57.62	+0.15	69.12	−0.01	−19 10 12.7	+1.2	−0.6	16 17.0	+0.4
27	R.	EII	20 35 17.86	+0.09	68.94	+0.03	-- -- ----	---	---	-- ----	---
Feb. 1	Fn.	EII	20 55 54.06	+0.07	68.18	−0.16	−17 20 17.5	+1.4	−0.3	16 14.5	−1.2
3	R.	WII	21 4 2.76	+0.12	68.12	+0.01	−16 46 4.4	−0.3	0.0	16 17.5	+2.1
5	Fn.	WII	21 12 8.18	+0.14	67.82	−0.06	−16 10 37.2	+2.3	−0.6	16 14.2	−0.9
6	Hd.	EII	21 16 9.67	+0.14	67.78	+0.01	−15 52 29.6	+2.1	−0.4	16 14.2	−0.8
7	R.	EII	-- -- -----	----	-----	----	−15 34 5.9	+1.7	−0.4	16 13.5	−1.3
8	Fn.	EII	21 24 10.25	+0.14	67.50	−0.04	−15 15 26.7	+0.8	−0.6	16 15.0	+0.4
9	Hd.	EII	21 28 9.33	+0.10	67.34	−0.08	−14 56 30.5	+1.3	−0.4	16 13.7	−0.7
10	R.	EII	21 32 7.78	+0.21	67.51	+0.20	−14 37 20.6	+0.5	−1.0	16 18.0	+3.7
13	Hd.	EII	21 43 58.06	+0.05	67.04	+0.06	−13 38 19.5	+2.4	−0.5	16 12.5	−1.2
16	Hd.	EII	21 55 41.84	+0.15	66.63	−0.03	−12 37 20.2	+1.2	−0.3	16 11.8	−1.3
17	R.	EII	21 59 34.96	+0.16	66.52	−0.04	−12 16 35.4	+0.8	−0.4	16 12.5	−0.4
19	Fn.	WII	22 7 18.97	+0.08	66.25	−0.11	−11 34 30.5	+0.6	−0.3	16 11.3	−1.2
23	Hd.	WII	22 22 38.90	+0.07	66.15	+0.18	-- -- ----	---	---	-- ----	---
27	Hd.	WII	22 37 48.60	+0.13	65.66	+0.04	− 8 39 27.5	+1.3	−0.5	16 9.4	−1.3
28	R.	WII	22 41 34.40	0.00	65.56	+0.02	-- -- ----	---	---	-- ----	---
Mar. 1	Hd.	WII	22 49 4.65	+0.07	65.46	+0.07	− 7 31 33.7	+1.4	−0.5	16 11.0	+1.0
2	R.	WII	22 52 48.96	+0.07	65.49	+0.17	− 7 8 43.4	+0.6	−0.3	16 12.2	+2.4
5	Hd.	WII	23 3 59.10	+0.14	65.06	−0.07	− 5 59 36.5	−0.6	−0.5	16 7.1	−1.9
7	Fn.	WII	23 11 23.56	+0.04	64.86	−0.15	− 5 13 6.1	−0.8	−0.4	16 8.0	−0.5
11	Hd.	EII	23 26 8.45	+0.17	64.96	+0.17	− 3 39 15.2	+1.1	−0.3	16 8.4	+1.0
14	Hd.	EII	23 37 8.81	+0.18	64.58	−0.08	− 2 28 24.0	+0.6	−0.2	16 5.0	−1.6
16	Fn.	EII	23 44 27.71	+0.09	64.56	−0.03	− 1 41 1.6	0.0	−0.4	16 6.4	+0.3
18	Fn.	EII	23 51 45.85	+0.04	64.42	−0.12	− 0 53 36.4	−1.0	−0.3	16 4.6	−0.9
19	Hd.	EII	23 55 24.72	+0.09	64.50	−0.02	− 0 29 52.5	−0.5	−0.2	16 3.9	−1.4
20	R.	EII	23 59 3.40	+0.10	64.52	+0.02	− 0 6 10.0	−1.0	−0.3	16 4.3	−0.7
22	Hd.	EII	0 6 20.38	+0.14	64.36	−0.10	-- -- ----	---	---	-- ----	---
23	R.	EII	0 9 58.72	+0.17	64.38	−0.07	+ 1 4 53.3	−0.7	−0.1	16 3.7	−0.5
25	Fn.	WII	0 17 15.04	+0.08	64.38	−0.06	+ 1 52 6.8	−0.2	−0.3	16 4.3	+0.6
26	Hd.	WII	0 20 53.14	+0.04	64.36	−0.07	+ 2 15 39.3	−0.4	−0.1	16 2.8	−0.6

SUN

[No corrections have been applied for personal equation, for equinox, or for the difference day minus night]

Date	Observer	Instrument	Apparent Right Ascension of Center	Correction to Am. Eph.	Sidereal Time of Transit of Semi-diameter	Correction to Am. Eph.	Apparent Declination of Center	Correction to Am. Eph.	Red. for External Therm.	Vertical Semi-diameter	Correction to Am. Eph.
1912			h m s	s	s	s	° ′ ″	″	″	′ ″	″
Mar. 27	R.	WII	0 24 31.19	−0.02	64.34	−0.09	+ 2 39 9.2	−0.2	*−0.2*	16 1.5	−1.6
30	R.	WII	0 35 25.60	+0.08	64.54	+0.09	+ 3 49 17.3	+0.3	*−0.5*	16 3.1	+0.8
Apr. 1	Fn.	WII	0 42 42.07	+0.05	64.34	−0.14	+ 4 35 40.5	−0.5	*−0.1*	16 0.4	−1.3
3	R.	WII	0 49 59.05	+0.10	64.61	+0.09	+ 5 21 44.2	−0.9	*−0.1*	16 2.4	+1.2
4	Fn.	EII	0 53 37.92	+0.27	64.60	+0.06	+ 5 44 39.2	+0.4	*−0.2*	16 1.8	+0.9
5	Hd.	EII	0 57 16.63	+0.11	64.46	−0.11	+ 6 7 25.8	−0.8	*0.0*	15 58.3	−2.3
6	R.	EII	1 0 55.70	+0.12	64.64	+0.04	+ 6 30 6.7	−1.7	*−0.2*	16 1.3	+1.0
8	Fn.	WII	1 8 14.52	+0.14	64.64	−0.03	+ 7 15 11.1	−0.7	*−0.2*	16 1.1	+1.3
9	Hd.	WII	1 11 54.30	+0.14	64.71	0.00	+ 7 37 31.4	−1.3	*0.0*	15 58.1	−1.4
11	Fn.	WII	1 19 14.69	+0.13	64.75	−0.04	+ 8 21 50.9	−0.7	*−0.1*	15 58.6	−0.3
12	Hd.	EII	1 22 55.25	+0.04	64.77	−0.07	+ 8 43 47.5	−1.4	*0.0*	15 58.0	−0.7
20	Fn.	WII	1 52 33.20	+0.13	65.12	−0.13	+11 33 47.2	+0.3	*0.0*	15 54.6	−1.9
23	Hd.	WII	2 3 46.38	+0.06	65.48	+0.03	+12 34 30.8	−0.8	*−0.1*	15 55.4	−0.4
24	R.	WII	2 7 31.60	−0.01	65.64	+0.12	+12 54 21.9	−0.1	*0.0*	15 57.1	+1.6
25	Fn.	EII	2 11 17.52	+0.16	65.56	−0.03	+13 13 57.8	−1.6	*−0.2*	15 56.3	+1.0
May 1	R.	EII	2 34 2.22	+0.13	66.08	+0.03	+15 6 56.6	−1.2	*−0.1*	15 54.4	+0.6
2	Fn.	EII	2 37 51.45	+0.08	66.10	−0.03	+15 24 54.7	−2.3	*−0.1*	15 54.5	+0.9
3	Hd.	EII	2 41 41.31	+0.11	66.23	+0.02	+15 42 40.5	−0.5	*−0.1*	15 53.0	−0.4
9	Fn.	WII	3 4 52.23	+0.04	66.66	−0.03	+17 23 28.2	−0.8	*−0.1*	15 51.2	−0.8
10	Hd.	WII	3 8 46.14	+0.06	66.79	+0.02	-- -- ----	---	---	-- ----	---
11	R.	WII	3 12 40.61	+0.05	66.74	−0.11	+17 54 49.2	−0.4	*−0.1*	15 50.3	−1.3
13	Fn.	WII	-- -- -----	----	-----	----	+18 24 58.0	−0.7	*−0.2*	15 47.6	−3.6
14	R.	WII	3 24 27.64	+0.10	67.09	−0.01	+18 39 34.8	−0.8	*−0.1*	15 49.9	−1.0
18	Hd.	EII	3 40 18.37	+0.06	67.52	+0.10	+19 34 51.2	−0.8	*−0.2*	15 50.0	−0.2
20	Fn.	EII	3 48 17.07	+0.04	67.48	−0.10	+20 0 29.8	−1.4	*−0.1*	15 49.0	−0.8
21	Hd.	WII	3 52 17.19	+0.01	67.58	−0.07	+20 12 49.3	−0.9	*−0.1*	15 49.0	−0.6
22	R.	WII	3 56 17.87	+0.03	67.76	+0.03	+20 24 47.0	−1.3	*−0.2*	15 50.7	+1.3
24	Hd.	EII	4 4 20.74	+0.06	67.83	−0.04	+20 47 40.1	−1.0	*−0.1*	15 47.9	−1.2
25	R.	EII	4 8 22.85	+0.01	67.91	−0.03	+20 58 35.3	−0.1	*−0.2*	15 48.7	−0.3
27	Fn.	EII	4 16 28.65	+0.05	67.98	−0.10	+21 19 16.7	−2.1	*0.0*	15 49.1	+0.5
28	Hd.	WII	4 20 32.26	+0.08	68.08	−0.06	+21 29 5.8	−1.6	*0.0*	15 47.4	−1.1
31	Hd.	WII	4 32 45.70	+0.13	68.42	+0.10	+21 56 17.4	−1.4	*−0.2*	15 48.3	+0.2
June 1	R.	WII	4 36 50.95	+0.06	68.46	+0.08	+22 4 35.0	−2.2	*0.0*	15 49.2	+1.3
3	Fn.	WII	4 45 2.75	+0.03	68.46	−0.04	+22 20 4.1	−0.7	*−0.1*	15 48.0	+0.4
5	R.	EII	4 53 16.19	+0.14	68.66	+0.06	+22 33 59.6	+0.7	*−0.2*	15 47.8	+0.4
7	Hd.	EII	5 1 30.85	+0.08	68.56	−0.13	+22 46 18.6	0.0	*−0.1*	15 44.9	−2.2
8	R.	EII	5 5 38.75	+0.13	68.82	+0.09	+22 51 52.1	−0.6	*−0.1*	15 49.5	+2.5
July 27	Fn.	WII	-- -- -----	----	-----	----	+19 12 14.6	−2.1	*−0.2*	15 47.6	+0.7
31	Fn.	WII	8 42 0.79	+0.13	66.58	−0.10	+18 15 23.1	−0.3	*−0.1*	15 46.2	−1.2
Aug. 1	R.	WII	8 45 54.03	+0.19	66.60	0.00	+18 0 23.7	−1.0	*−0.1*	15 47.8	+0.3
5	Fn.	EII	9 1 20.85	+0.17	66.20	−0.05	+16 57 34.1	−1.7	*−0.2*	15 49.5	+1.5
7	Fn.	EII	9 9 0.71	+0.10	65.98	−0.09	+16 24 29.8	−1.1	*0.0*	15 46.8	−1.5
13	R.	EII	9 31 46.87	+0.14	65.44	−0.13	+14 39 1.3	−1.5	*−0.1*	15 47.8	−1.4
15	R.	WII	9 39 17.75	+0.11	65.32	−0.10	+14 1 58.3	+0.5	*−0.1*	15 47.3	−2.3
16	Fn.	WII	9 43 2.40	+0.14	65.28	−0.06	+13 43 4.0	−1.1	*−0.2*	15 50.2	+0.4
19	Fn.	WII	9 54 13.06	+0.08	65.01	−0.12	+12 45 8.6	−1.7	*−0.1*	15 48.9	−1.4
21	Fn.	WII	10 1 37.74	+0.15	64.94	−0.05	+12 5 32.1	−1.1	*−0.3*	15 50.4	−0.3
22	R.	WII	10 5 19.27	+0.10	64.87	−0.06	+11 45 26.3	−1.1	*−0.2*	15 50.5	−0.4
24	R.	WII	10 12 41.10	+0.15	64.80	0.00	+11 4 40.3	−2.6	*−0.1*	15 51.7	+0.3
28	Fn.	WII	10 27 19.67	+0.17	64.55	−0.01	+ 9 41 10.8	−0.4	*−0.3*	15 52.5	+0.3

SUN

[No corrections have been applied for personal equation, for equinox, or for the difference day minus night]

Date	Observer	Instrument	Apparent Right Ascension of Center	Correction to Am. Eph.	Sidereal Time of Transit of Semi-diameter	Correction to Am. Eph.	Apparent Declination of Center	Correction to Am. Eph.	Red. for External Therm.	Vertical Semi-diameter	Correction to Am. Eph.
1912			h m s	s	s	s	° ′ ″	″	″	′ ″	″
Aug. 29	R.	WII	10 30 58.30	+0.11	64.46	−0.05	+ 9 19 52.7	−1.6	*−0.4*	15 52.4	0.0
30	Fn.	WII	10 34 36.68	+0.13	64.41	−0.05	+ 8 58 28.3	−0.1	*−0.2*	15 52.9	+0.3
Sept. 6	Hd.	EII	10 59 57.27	+0.10	64.15	−0.03	+ 6 24 41.6	−0.7	*−0.2*	15 53.6	−0.6
9	Hd.	EII	11 10 45.78	+0.14	64.04	−0.06	+ 5 17 3.4	−1.1	*−0.4*	15 53.4	−1.6
10	R.	EII	11 14 21.63	+0.14	64.03	−0.05	+ 4 54 19.9	−0.7	*−0.1*	15 54.9	−0.3
11	Hd.	EII	11 17 57.35	+0.15	64.11	+0.05	+ 4 31 31.5	−0.1	*−0.3*	15 54.4	−1.1
13	Hd.	WII	11 25 8.46	+0.18	64.00	−0.03	+ 3 45 39.2	−0.8	*−0.2*	15 55.3	−0.7
16	Hd.	WII	-- -- -----	----	-----	----	+ 2 36 22.6	−0.9	*−0.2*	15 55.6	−1.2
20	Hd.	WII	11 50 15.56	+0.15	64.02	−0.01	+ 1 3 21.0	−1.0	*−0.4*	15 57.3	−0.5
28	R.	EII	12 19 1.71	+0.13	64.40	+0.19	− 2 3 37.6	−0.6	*−0.5*	16 2.0	+2.0
30	R.	EII	12 26 15.21	+0.20	64.40	+0.13	− 2 50 17.6	+0.9	*−0.3*	16 2.2	+1.6
Oct. 1	Hd.	EII	12 29 52.31	+0.16	64.28	−0.02	− 3 13 37.3	−0.3	*−0.4*	15 59.3	−1.5
3	Hd.	EII	12 37 7.47	+0.09	64.40	+0.02	− 4 0 7.8	−0.3	*−0.3*	16 0.4	−1.0
4	Hd.	EII	12 40 45.70	+0.19	64.50	+0.07	− 4 23 18.8	+0.2	*−0.5*	16 1.7	0.0
5	Hd.	EII	12 44 24.16	+0.16	64.47	−0.02	− 4 46 28.5	−0.9	*−0.1*	16 0.6	−1.3
7	Hd.	WII	12 51 42.31	+0.14	64.62	−0.01	− 5 32 35.0	−0.8	*−0.4*	16 2.1	−0.4
8	Hd.	WII	12 55 22.14	+0.25	64.74	+0.05	− 5 55 32.7	−1.2	*−0.4*	16 2.8	0.0
10	Hd.	WII	13 2 42.90	+0.22	64.93	+0.11	− 6 41 12.2	−0.3	*−0.3*	16 4.3	+1.0
11	Hd.	WII	-- -- -----	----	-----	----	− 7 3 54.1	+0.1	*−0.3*	16 1.2	−2.4
15	R.	WII	13 21 13.25	+0.13	65.30	+0.09	− 8 33 41.9	+0.1	*−0.3*	16 5.9	+1.2
16	Fn.	WII	13 24 56.95	+0.16	65.34	+0.05	− 8 55 53.4	−1.9	*−0.8*	16 6.0	+1.0
17	R.	WII	13 28 41.09	+0.07	65.48	+0.10	− 9 17 52.2	+1.0	*−0.3*	16 6.3	+1.0
18	Fn.	WII	13 32 25.98	+0.14	65.37	−0.10	− 9 39 45.3	+1.5	*−0.5*	16 5.8	+0.2
21	Fn.	EII	13 43 44.14	+0.17	65.62	−0.13	−10 44 34.6	+0.5	*−0.5*	16 5.5	−0.9
26	R.	EII	14 2 47.64	+0.22	66.35	+0.10	−12 29 16.7	+0.5	*−0.3*	16 8.7	+1.0
28	Fn.	EII	14 10 30.03	+0.20	66.38	−0.09	−13 9 49.6	+2.4	*−0.4*	16 6.8	−1.4
29	R.	EII	14 14 22.35	+0.17	66.56	−0.02	−13 29 50.7	+0.4	*−0.4*	16 7.5	−1.0
30	Fn.	EII	14 18 15.48	+0.16	66.60	−0.09	−13 49 35.2	+2.4	*−0.3*	16 9.2	+0.5
31	Hd.	EII	14 22 9.50	+0.24	66.81	+0.01	−14 9 10.6	+0.4	*−0.5*	16 8.2	−0.8
Nov. 4	Fn.	WII	14 37 53.33	+0.10	67.22	−0.03	−15 25 5.6	+0.3	*−0.3*	16 9.6	−0.4
5	Fn.	WII	14 41 51.44	+0.13	67.31	−0.06	−15 43 27.4	+0.6	*−0.5*	16 9.7	−0.5
8	Hd.	WII	14 53 50.78	+0.11	67.73	0.00	−16 36 58.9	−0.1	*−0.5*	16 12.5	+1.6
9	Fn.	WII	-- -- -----	----	-----	----	−16 54 16.2	−0.3	*−0.4*	16 10.8	−0.3
11	R.	EII	15 5 57.86	+0.19	68.07	−0.03	−17 27 56.7	+1.3	*−0.5*	16 11.6	0.0
12	Fn.	EII	15 10 1.94	+0.25	68.04	−0.18	−17 44 21.5	+0.5	*−0.1*	16 9.4	−2.4
15	Hd.	EII	15 22 19.02	+0.22	68.50	−0.08	−18 31 39.6	+1.5	*−0.5*	16 10.3	−2.2
16	Hd.	EII	15 26 26.43	+0.27	68.69	−0.01	−18 46 46.8	+1.7	*−0.5*	16 13.2	+0.5
19	R.	EII	15 38 53.34	+0.17	69.12	+0.08	−19 30 8.7	+0.2	*−0.3*	16 13.9	+0.6
21	R.	EII	15 47 15.38	+0.15	69.16	−0.10	−19 57 15.9	+1.1	*−0.6*	16 13.6	−0.1
22	Fn.	EII	15 51 27.60	+0.14	69.24	−0.13	−20 10 18.3	0.0	*−0.1*	16 12.1	−1.8
23	Hd.	EII	15 55 40.66	+0.20	69.44	−0.04	−20 22 56.4	+1.0	*−0.4*	16 13.1	−1.0
25	Fn.	WII	16 4 8.96	+0.17	69.60	−0.09	−20 47 6.7	+1.0	*−0.3*	16 14.2	−0.3
26	Hd.	WII	16 8 24.21	+0.11	69.73	−0.06	−20 58 37.5	+0.7	*−0.2*	16 14.2	−0.4
27	Fn.	WII	16 12 40.33	+0.18	69.82	−0.07	−21 9 44.0	+1.2	*−0.4*	16 14.8	0.0
29	Fn.	WII	16 21 14.58	+0.13	70.03	−0.06	−21 30 46.7	+0.4	*−0.3*	16 13.9	−1.2
30	Hd.	WII	16 25 32.78	+0.12	70.18	0.00	−21 40 41.4	+0.1	*−0.4*	16 15.0	−0.3
Dec. 3	R.	WII	16 38 31.40	+0.04	70.42	−0.01	−22 7 56.0	−0.8	*−0.6*	16 15.1	−0.6
10	R.	WII	17 9 8.63	+0.08	70.86	−0.06	−22 56 16.9	+0.6	*−0.3*	16 16.0	−0.6
12	R.	EII	17 17 57.82	+0.26	71.20	+0.18	−23 6 4.7	−0.3	*−0.9*	16 18.6	+1.8
13	Hd.	EII	17 22 22.58	0.00	71.02	−0.04	−23 10 14.4	+2.1	*−0.4*	16 17.5	+0.6

SUN

[No corrections have been applied for personal equation, for equinox, or for the difference day minus night]

Date	Observer	Instrument	Apparent Right Ascension of Center	Correction to Am. Eph.	Sidereal Time of Transit of Semi-diameter	Correction to Am. Eph.	Apparent Declination of Center	Correction to Am. Eph.	Red. for External Therm.	Vertical Semi-diameter	Correction to Am. Eph.
1912			h m s	s	s	s	° ′ ″	″	″	′ ″	″
Dec. 14	R.	EII	17 26 48.05	+0.15	71.03	−0.07	−23 13 59.4	+1.4	*−0.5*	16 16.3	−0.7
20	Fn.	EII	17 53 24.43	+0.13	71.17	−0.08	−23 26 37.4	+1.7	*−0.4*	16 16.7	−0.8
21	R.	EII	17 57 51.04	+0.25	71.37	+0.11	−23 27 5.9	+1.0	*−0.6*	16 19.7	+2.1
23	Fn.	WII	18 6 44.00	+0.17	71.18	−0.09	−23 26 36.4	+1.2	*−0.5*	16 15.6	−2.1
26	R.	WII	18 20 3.36	+0.19	71.26	+0.02	−23 22 20.6	+1.4	*−0.5*	16 18.5	+0.7
27	Fn.	WII	-- -- -----	----	-----	----	−23 20 0.7	−0.3	*−0.2*	16 18.0	+0.2
28	Hd.	WII	18 28 55.68	+0.14	71.22	+0.03	−23 17 10.0	+0.6	*−0.4*	16 18.3	+0.5
1913											
Jan. 2	R.	WII	18 51 3.02	+0.09	70.94	−0.07	−22 56 2.1	+1.2	*−0.4*	16 18.2	+0.3
4	Hd.	WII	18 59 51.82	+0.05	71.02	+0.11	−22 44 22.2	+0.8	*−0.7*	16 17.8	−0.1
6	Fn.	WII	19 8 39.16	+0.16	70.66	−0.13	−22 30 53.4	+0.9	*0.0*	16 16.0	−1.8
9	R.	WII	19 21 46.37	+0.08	70.75	+0.17	−22 7 18.5	+2.9	*−1.2*	16 19.6	+1.9
13	Fn.	WII	19 39 8.22	+0.12	70.24	−0.02	−21 29 52.5	+2.0	*−0.3*	16 16.7	−0.9
14	R.	WII	-- -- -----	----	-----	----	−21 19 31.0	−1.0	*−0.6*	16 17.7	+0.2
15	Fn.	WII	19 47 45.22	+0.07	69.99	−0.09	−21 8 39.4	+1.4	*−0.3*	16 17.0	−0.4
17	Fn.	EII	19 56 19.52	+0.09	69.78	−0.11	−20 45 49.4	+0.5	*−0.2*	16 16.3	−1.0
20	Fn.	EII	20 9 5.44	+0.11	69.45	−0.13	−20 8 37.0	+0.9	*−0.2*	16 15.4	−1.7
22	Fn.	EII	20 17 32.31	+0.18	69.29	−0.09	−19 41 55.2	+1.2	*−0.4*	16 16.5	−0.4
25	Hd.	EII	20 30 6.59	+0.08	68.99	−0.06	−18 59 9.1	+1.8	*−0.3*	16 15.8	−0.8
28	R.	EII	20 42 33.90	+0.08	68.77	+0.05	−18 13 15.8	+2.0	*−0.9*	16 17.4	+1.2
30	Hd.	WII	20 50 48.10	+0.06	68.53	+0.04	−17 41 1.7	+1.5	*−0.5*	16 15.0	−0.9
31	Fn.	WII	20 54 54.00	+0.06	68.24	−0.13	−17 24 27.2	0.0	*0.0*	16 14.7	−1.1
Feb. 1	Hd.	WII	20 58 59.14	+0.11	68.28	+0.03	−17 7 32.8	−0.2	*−0.8*	16 15.6	0.0
5	Fn.	WII	21 15 11.43	+0.14	67.76	−0.03	−15 56 55.7	+1.3	*−0.8*	16 15.7	+0.7
6	R.	WII	21 19 12.47	+0.14	67.66	−0.01	−15 38 34.4	+1.6	*−0.6*	16 15.7	+0.9
7	Fn.	WII	21 23 12.61	+0.06	67.52	−0.04	−15 19 56.6	+2.3	*−0.6*	16 14.9	+0.3
10	Fn.	WII	21 35 8.49	+0.13	67.16	−0.06	−14 22 34.8	+1.0	*−0.7*	16 13.8	−0.3
12	Fn.	WII	21 43 1.68	+0.09	67.02	+0.02	−13 43 8.9	−0.5	*−0.5*	16 13.8	0.0
13	R.	WII	21 46 57.05	+0.02	67.02	+0.13	−13 23 1.8	+2.5	*−0.6*	16 15.6	+2.0
14	Fn.	WII	21 50 51.75	+0.05	66.84	+0.05	−13 2 44.6	+2.7	*−0.7*	16 14.2	+0.8
15	Hd.	WII	21 54 45.74	+0.13	66.68	−0.01	−12 42 17.5	+0.3	*−0.3*	16 12.8	−0.4
18	Hd.	EII	22 6 23.01	+0.10	66.30	−0.09	−11 39 36.5	+1.8	*−0.7*	16 12.5	−0.1
19	Fn.	EII	22 10 13.97	+0.05	66.18	−0.11	−11 18 21.6	+1.2	*−0.2*	16 11.8	−0.6
21	Fn.	EII	22 17 54.02	+0.13	65.99	−0.10	-- -- ----	---	---	-- ----	---
28	Fn.	EII	22 44 24.69	+0.06	65.40	−0.09	− 7 59 54.0	+0.5	*−0.4*	16 10.8	+0.5
Mar. 3	Fn.	EII	22 55 38.41	+0.13	65.22	−0.06	− 6 51 23.9	−0.2	*−0.1*	16 11.4	+1.9
5	Fn.	EII	23 3 5.17	+0.12	65.10	−0.04	− 6 5 12.2	+1.0	*−0.4*	16 8.9	−0.1
6	Hd.	EII	23 6 47.95	+0.17	65.16	+0.08	− 5 41 58.9	+1.2	*−0.3*	16 10.2	+1.4
7	Fn.	EII	23 10 30.25	+0.15	65.10	+0.08	− 5 18 40.5	+1.9	*−0.6*	16 7.8	−0.7
12	Fn.	EII	23 28 56.13	+0.08	64.68	−0.08	− 3 21 19.0	−0.4	*−0.3*	16 6.3	−0.9
17	Fn.	WII	23 47 14.29	+0.07	64.59	+0.02	− 1 22 58.6	+0.7	*−0.4*	16 6.3	+0.4
18	Hd.	WII	23 50 53.28	+0.14	64.50	−0.04	− 0 59 16.5	+0.5	*−0.1*	16 5.1	−0.5
19	Fn.	WII	23 54 31.93	+0.07	64.47	−0.05	− 0 35 34.7	+0.1	*−0.2*	16 4.7	−0.7
22	Hd.	WII	0 5 27.20	+0.08	64.50	+0.03	+ 0 35 28.1	−0.3	*−0.3*	16 5.8	+1.2
28	Fn.	EII	0 27 15.90	+0.12	64.42	−0.02	+ 2 56 48.9	−1.1	*−0.5*	16 3.4	+0.5
29	Hd.	EII	0 30 54.09	+0.17	64.38	−0.06	+ 3 20 14.4	+0.5	*−0.1*	16 1.1	−1.5
31	Fn.	EII	0 38 10.53	+0.13	64.44	−0.02	+ 4 6 49.2	−1.0	*−0.1*	16 2.3	+0.3
Apr. 1	Hd.	EII	0 41 48.87	+0.09	64.42	−0.05	+ 4 30 2.1	+0.2	*−0.2*	16 1.4	−0.4
2	Fn.	EII	0 45 27.46	+0.18	64.49	0.00	+ 4 53 9.3	+0.4	*−0.3*	16 1.4	−0.1
3	R.	EII	0 49 5.98	+0.05	64.48	−0.03	+ 5 16 10.9	+0.1	*−0.2*	16 1.0	−0.2
5	Hd.	WII	0 56 23.76	+0.06	64.61	+0.05	+ 6 1 56.1	−1.4	*−0.3*	16 2.1	+1.5

SUN

[No corrections have been applied for personal equation, for equinox, or for the difference day minus night]

Date	Observer	Instrument	Apparent Right Ascension of Center	Correction to Am. Eph.	Sidereal Time of Transit of Semi-diameter	Correction to Am. Eph.	Apparent Declination of Center	Correction to Am. Eph.	Red. for External Therm.	Vertical Semi-diameter	Correction to Am. Eph.
1913			h m s	s	s	s	° ′ ″	″	″	′ ″	″
Apr. 8	Hd.	WII	1 7 21.79	+0.04	64.63	−0.03	+ 7 9 48.9	−1.3	*−0.3*	15 59.5	−0.3
9	Fn.	WII	1 11 1.69	+0.14	64.70	0.00	+ 7 32 12.8	−0.7	*−0.3*	16 0.1	+0.6
17	R.	WII	1 40 30.02	+0.16	65.08	+0.02	+10 26 12.6	−0.9	*−0.2*	15 58.6	+1.2
18	Fn.	WII	1 44 12.46	+0.08	65.05	−0.07	+10 47 14.4	−0.7	*−0.1*	15 56.3	−0.9
19	R.	WII	1 47 55.40	+0.11	65.14	−0.04	+11 8 5.5	−0.5	*−0.2*	15 56.8	−0.1
21	Hd.	EII	1 55 22.56	+0.22	65.42	+0.12	+11 49 14.3	−0.3	*−0.3*	15 58.5	+2.1
22	Fn.	EII	1 59 6.60	+0.08	65.32	−0.05	+12 9 30.3	−1.4	*−0.1*	15 55.5	−0.6
25	Fn.	EII	2 10 21.94	+0.11	65.54	−0.03	+13 9 9.1	−1.0	*−0.1*	15 54.7	−0.7
26	R.	EII	2 14 7.98	+0.07	65.57	−0.07	+13 28 36.6	−1.1	*0.0*	15 54.4	−0.7
30	R.	EII	2 29 17.57	+0.12	66.01	+0.07	+14 44 12.9	−0.5	*−0.2*	15 55.4	+1.3
May 1	Hd.	EII	2 33 6.31	+0.13	66.10	+0.08	+15 2 32.4	+0.3	−0.2	15 54.6	+0.8
2	Fn.	EII	2 36 55.52	+0.05	66.11	+0.01	+15 20 36.0	+0.1	*−0.1*	15 54.6	+1.0
3	R.	EII	2 40 45.42	+0.11	66.27	+0.09	+15 38 23.8	−0.7	*−0.2*	15 54.0	+0.6
5	Hd.	EII	2 48 26.75	+0.07	66.38	+0.04	+16 13 14.8	−0.3	*−0.2*	15 53.5	+0.6
6	Fn.	EII	2 52 18.29	+0.08	66.38	−0.04	+16 30 15.5	−0.8	*−0.2*	15 52.0	−0.7
8	Hd.	EII	3 0 3.16	+0.19	66.66	+0.08	+17 3 28.0	−1.0	*−0.2*	15 52.8	+0.6
9	Fn.	EII	3 3 56.31	+0.11	66.64	−0.03	+17 19 39.1	−0.8	*−0.2*	15 51.4	−0.6
10	R.	EII	3 7 50.14	+0.15	66.81	+0.05	+17 35 33.0	−0.4	*−0.2*	15 52.9	+1.1
12	Hd.	WII	3 15 39.43	+0.18	66.92	0.00	+18 6 25.1	−1.7	*−0.2*	15 51.7	+0.3
15	Hd.	WII	3 27 27.44	+0.13	67.11	−0.06	+18 50 28.4	−0.3	*−0.1*	15 49.8	−1.0
19	Hd.	WII	3 43 19.23	+0.12	67.53	+0.04	+19 44 41.7	−1.0	*−0.2*	15 50.2	+0.1
21	R.	WII	3 51 18.41	+0.09	67.63	−0.01	+20 9 49.1	−0.8	*−0.1*	15 49.8	+0.1
22	Hd.	WII	3 55 18.89	+0.16	67.66	−0.05	+20 21 51.2	−1.6	*−0.1*	15 48.7	−0.8
29	Hd.	WII	4 23 36.41	+0.07	68.18	−0.01	+21 36 17.4	+0.2	*−0.1*	15 47.6	−0.8
31	R.	WII	4 31 45.89	+0.12	68.42	+0.11	+21 54 14.7	+0.3	*−0.1*	15 49.6	+1.5
June 2	Hd.	WII	4 39 57.03	+0.08	68.53	+0.11	+22 10 40.7	+0.5	*−0.2*	15 48.6	+0.8
3	Fn.	WII	4 44 3.24	+0.10	68.38	−0.10	+22 18 17.1	−1.3	*0.0*	15 47.3	−0.3
4	R.	WII	4 48 9.75	+0.04	68.57	+0.04	+22 25 32.2	−1.1	*−0.1*	15 47.3	−0.2
5	Hd.	WII	4 52 16.73	+0.09	68.52	−0.06	+22 32 24.5	−0.1	*−0.2*	15 46.3	−1.1
6	Fn.	WII	4 56 23.99	+0.09	68.50	−0.13	+22 38 51.6	−0.5	*0.0*	15 46.1	−1.2
9	Hd.	WII	5 8 47.55	+0.15	68.79	+0.04	+22 55 50.5	−0.7	*−0.2*	15 47.1	+0.1
10	R.	WII	5 12 55.79	+0.05	68.84	+0.06	+23 0 41.4	−1.2	*−0.2*	15 48.3	+1.5
11	Fn.	EII	5 17 4.39	+0.10	68.80	−0.01	+23 5 8.3	−1.3	*−0.2*	15 47.5	+0.7
12	Hd.	EII	5 21 13.15	+0.13	68.82	−0.02	+23 9 11.7	−0.5	*−0.2*	15 46.0	−0.7
13	Fn.	EII	5 25 22.01	+0.09	68.82	−0.04	+23 12 49.3	−1.1	*−0.1*	15 47.3	+0.7
16	Hd.	EII	5 37 49.57	+0.13	68.84	−0.08	+23 21 17.0	−0.3	*0.0*	15 45.4	−1.0
18	R.	EII	5 46 8.37	+0.11	69.08	+0.14	+23 24 51.9	0.0	*−0.1*	15 47.5	+1.3
19	Hd.	EII	5 50 17.87	+0.11	68.89	−0.05	+23 26 2.3	+0.1	*0.0*	15 44.5	−1.6
24	Fn.	EII	6 11 5.51	+0.20	68.86	−0.07	+23 25 42.0	0.0	*0.0*	15 46.0	+0.1
27	Fn.	EII	6 23 33.25	+0.12	68.78	−0.09	+23 20 32.3	−0.5	*−0.1*	15 44.4	−1.4
30	Hd.	EII	6 35 59.78	+0.10	68.77	−0.01	+23 11 41.9	−0.2	*−0.1*	15 45.2	−0.5
July 1	Fn.	EII	6 40 8.25	+0.12	68.68	−0.07	+23 7 55.0	−1.2	*0.0*	15 43.9	−1.8
3	R.	EII	6 48 24.40	+0.12	68.84	+0.16	+22 59 10.8	−0.6	*−0.3*	15 48.4	+2.8
7	Hd.	WII	7 4 52.99	+0.09	68.56	+0.06	+22 36 54.0	−0.2	*−0.1*	15 45.9	+0.2
8	Fn.	WII	7 8 59.31	+0.17	68.48	+0.03	+22 30 20.2	−0.3	*−0.3*	15 46.2	+0.5
10	Fn.	WII	7 17 10.43	+0.06	68.27	−0.06	+22 16 3.0	−0.4	*−0.1*	15 46.2	+0.4
11	Hd.	WII	7 21 15.48	+0.15	68.24	−0.03	+22 8 20.2	−0.2	*−0.1*	15 45.5	−0.3
12	Fn.	WII	7 25 19.93	+0.11	68.08	−0.13	-- -- ----	--	---	-- ----	---
14	Fn.	WII	7 33 27.52	+0.17	67.94	−0.14	+21 42 53.7	−1.7	*−0.1*	15 45.1	−0.8
Nov. 4	R.	EI	14 36 57.77	+0.20	67.16	−0.07	−15 20 46.2	−0.1	*−0.2*	16 10.6	+0.7

SUN

[No corrections have been applied for personal equation, for equinox, or for the difference day minus night]

Date	Observer	Instrument	Apparent Right Ascension of Center	Correction to Am. Eph.	Sidereal Time of Transit of Semi-diameter	Correction to Am. Eph.	Apparent Declination of Center	Correction to Am. Eph.	Red. for External Therm.	Vertical Semi-diameter	Correction to Am. Eph.
1913			h m s	s	s	s	° ′ ″	″	″	′ ″	″
Nov. 5	Hd.	EI	14 40 55.67	+0.26	67.42	+0.07	−15 39 10.1	+1.1	*−0.9*	16 10.7	+0.6
6	Fn.	EI	14 44 54.29	+0.23	67.40	−0.07	−15 57 19.4	+1.3	*−0.5*	16 10.9	+0.5
7	R.	EI	14 48 53.79	+0.26	67.60	+0.01	−16 15 13.3	+0.9	*−0.4*	16 10.3	−0.3
12	Hd.	WI	15 9 3.50	+0.12	68.26	+0.07	−17 40 25.5	+2.0	*−1.0*	16 12.0	+0.2
13	Fn.	WI	15 13 8.02	+0.16	68.17	−0.14	−17 56 35.8	+0.9	*−0.1*	16 10.2	−1.8
17	Fn.	WI	15 29 34.50	+0.15	68.74	−0.05	−18 58 1.9	+0.5	*−0.7*	16 12.5	−0.3
18	R.	WI	15 33 43.17	+0.06	68.93	+0.03	−19 12 34.1	+0.2	*−0.7*	16 14.5	+1.5
19	Hd.	WI	15 37 52.81	+0.10	69.02	+0.01	−19 26 44.8	+0.7	*−0.4*	16 13.2	0.0
20	Fn.	WI	15 42 3.32	+0.16	69.10	−0.02	−19 40 34.4	+1.3	*−0.4*	16 13.8	+0.4
21	R.	WI	15 46 14.59	+0.14	69.13	−0.10	−19 54 4.5	0.0	*−0.5*	16 12.9	−0.7
22	Hd.	WI	15 50 26.52	−0.04	69.34	0.00	−20 7 9.3	+2.3	*−0.5*	16 13.1	−0.7
24	Fn.	WI	15 58 53.34	+0.11	69.49	−0.06	−20 32 19.5	+0.1	*−0.5*	16 14.4	+0.2
25	R.	EI	16 3 8.00	+0.24	69.70	+0.05	−20 44 18.0	+1.5	*−0.6*	16 15.7	+1.4
Dec. 4	Fn.	EI	16 41 50.70	+0.23	70.40	−0.09	−22 14 12.9	+1.1	*−0.3*	16 15.0	−0.8
5	Fn.	EI	16 46 11.92	+0.24	70.57	+0.01	−22 22 5.1	+2.4	*−0.5*	16 15.2	−0.7
9	R.	EI	17 3 41.88	+0.23	70.90	+0.06	−22 49 15.2	+2.5	*−0.7*	16 17.3	+0.8
11	Fn.	EI	-- -- -----	----	-----	----	−23 0 11.5	+0.2	*−0.4*	16 15.1	−1.6
12	R.	EI	17 16 53.93	+0.21	71.05	+0.04	−23 4 55.4	+2.5	*−0.3*	16 18.3	+1.5
13	Hd.	EI	17 21 18.62	+0.14	71.02	−0.03	−23 9 13.3	+3.3	*−0.2*	16 17.7	+0.8
15	Fn.	WI	17 30 9.18	+0.22	71.11	−0.02	−23 16 30.5	+0.5	*−0.9*	16 18.5	+1.4
16	R.	WI	17 34 34.76	+0.14	71.07	−0.09	−23 19 24.0	+2.4	*−0.5*	16 16.6	−0.6
17	Hd.	WI	17 39 0.62	+0.10	71.18	−0.01	−23 21 54.0	−0.1	*−0.3*	16 15.7	−1.5
18	Fn.	WI	17 43 26.75	+0.13	71.20	−0.01	−23 23 53.8	−0.4	*−0.4*	16 17.6	+0.3
19	R.	WI	17 47 53.08	+0.18	71.26	+0.03	−23 25 23.6	+1.2	*−1.3*	16 18.7	+1.3
27	Wy.	WI	18 23 25.62	+0.09	71.31	+0.09	-- -- ----	---	---	-- ----	---
29	Fn.	WI	18 32 18.10	+0.13	71.16	−0.01	−23 14 40.7	+2.0	*−0.7*	16 18.3	+0.5
30	Wy.	WI	18 36 43.90	+0.04	71.04	−0.10	−23 11 3.6	−0.3	*−0.4*	16 17.7	−0.1
1914											
Jan. 2	Hd.	EI	18 49 59.98	+0.18	70.98	−0.04	−22 57 16.1	+2.3	*−0.9*	16 16.6	−1.3
6	Fn.	EI	19 7 36.11	+0.22	70.70	−0.10	−22 32 34.0	+1.4	*−0.6*	16 17.1	−0.7
10	Hd.	EI	19 25 4.44	+0.14	70.56	+0.04	−22 0 43.2	+2.7	*−0.7*	16 17.7	0.0
12	R.	EI	19 33 45.42	+0.26	70.36	0.00	−21 42 13.8	+1.9	*−0.6*	16 17.8	+0.1
13	Wy.	EI	19 38 4.86	+0.17	70.42	+0.14	−21 32 23.2	−0.5	*−0.9*	16 19.4	+1.8
14	Hd.	EI	19 42 23.84	+0.25	70.27	+0.08	-- -- ----	---	---	-- ----	---
23	Fn.	WI	20 20 43.27	+0.17	69.18	−0.11	−19 31 26.9	+1.1	*−0.3*	16 15.2	−1.5
26	R.	WI	20 33 16.25	+0.06	68.99	+0.03	−18 47 50.0	+1.8	*−0.4*	16 18.2	+1.8
28	Wy.	WI	20 41 34.44	+0.21	68.60	−0.14	−18 17 1.9	+2.4	*−0.5*	16 14.8	−1.4
29	R.	WI	20 45 42.12	+0.11	68.64	+0.02	−18 1 9.6	+1.2	*−0.5*	16 17.2	+1.2
Feb. 2	Fn.	WI	21 2 4.95	+0.19	68.23	+0.06	−16 54 26.8	+0.9	*−1.0*	16 16.6	+1.1
3	Wy.	EI	21 6 8.47	+0.13	68.02	−0.04	−16 37 0.8	+0.9	*−0.3*	16 13.6	−1.7
4	Hd.	EI	21 10 11.23	+0.14	67.92	−0.02	−16 19 17.6	+0.9	*−0.4*	16 14.8	−0.4
9	Fn.	EI	21 30 12.63	+0.19	67.40	+0.04	−14 46 37.2	+1.4	*−0.8*	16 15.1	+0.7
11	Hd.	EI	21 38 7.44	+0.11	67.19	+0.05	−14 7 48.6	−0.2	*−0.6*	16 16.6	+2.6
12	Fn.	EI	21 42 3.87	+0.25	67.07	+0.04	−13 48 1.5	+0.5	*−1.0*	16 14.8	+1.0
14	Hd.	WI	21 49 54.01	+0.06	66.84	+0.02	−13 7 46.0	+2.6	*−0.4*	16 13.0	−0.4
16	Fn.	WI	21 57 41.63	+0.25	66.55	−0.06	−12 26 43.8	+0.1	*−0.4*	16 12.8	−0.2
21	Hd.	WI	22 16 57.92	+0.04	66.20	+0.09	−10 40 35.5	+2.5	*−0.8*	16 12.6	+0.7
26	Fn.	EI	22 35 58.54	+0.16	65.78	+0.11	− 8 50 21.0	+2.3	*−0.8*	16 12.2	+1.4
27	Wy.	EI	22 39 44.82	+0.12	65.74	+0.15	− 8 27 55.2	+0.1	*−0.3*	16 9.3	−1.3
Mar. 3	Wy.	WI	22 54 44.64	+0.12	65.36	+0.06	− 6 56 53.8	−0.5	*−0.4*	16 11.4	+1.8
4	Hd.	WI	22 58 28.38	+0.18	65.24	+0.01	− 6 33 53.1	−0.7	*−0.2*	16 9.3	−0.1

SUN

[No corrections have been applied for personal equation, for equinox, or for the difference day minus night]

Date	Observer	Instrument	Apparent Right Ascension of Center	Correction to Am. Eph.	Sidereal Time of Transit of Semi-diameter	Correction to Am. Eph.	Apparent Declination of Center	Correction to Am. Eph.	Red. for External Therm.	Vertical Semi-diameter	Correction to Am. Eph.
1914			h m s	s	s	s	° ′ ″	″	″	′ ″	″
Mar. 7	Hd.	EI	23 9 36.63	+0.20	65.01	−0.03	− 5 24 19.3	−0.1	−0.3	16 8.9	+0.3
9	Fn.	WI	23 16 59.90	+0.10	64.90	−0.02	− 4 37 34.1	+1.5	−0.6	16 9.7	+1.6
10	Wy.	WI	23 20 41.06	+0.14	64.96	+0.09	− 4 14 8.3	+0.2	−0.4	16 8.8	+0.9
12	Fn.	WI	23 28 2.24	+0.12	64.93	+0.16	− 3 27 4.5	+0.8	−0.7	16 9.3	+2.0
14	Hd.	WI	23 35 22.27	+0.15	64.66	−0.02	− 2 39 52.3	0.0	−0.2	16 5.7	−1.1
16	Fn.	WI	23 42 41.20	+0.09	64.58	−0.03	− 1 52 32.2	+0.1	−0.2	16 6.5	+0.2
17	Fn.	EI	23 46 20.47	+0.18	64.58	0.00	− 1 28 50.5	−0.1	−0.5	16 4.4	−1.6
18	Hd.	EI	23 49 59.45	+0.16	64.60	+0.05	− 1 5 8.1	−0.2	−0.2	16 5.5	−0.2
21	Hd.	EI	0 0 55.43	+0.08	64.63	+0.14	+ 0 6 1.3	+1.2	−0.5	16 6.7	+1.8
23	Fn.	EI	0 8 12.29	+0.10	64.38	−0.08	+ 0 53 22.0	0.0	−0.2	16 3.4	−0.9
24	Wy.	EI	0 11 50.63	+0.14	64.40	−0.05	+ 1 17 1.3	+0.5	−0.1	16 4.8	+0.8
25	Hd.	EI	0 15 28.85	+0.11	64.39	−0.05	+ 1 40 37.8	+0.1	−0.1	16 2.4	−1.4
26	Fn.	EI	0 19 7.08	+0.13	64.30	−0.14	+ 2 4 12.1	−0.2	0.0	16 2.7	−0.8
31	Wy.	WI	0 37 18.32	+0.20	64.36	−0.10	-- -- ----	---	---	-- ----	---
Apr. 3	Wy.	WI	0 48 13.64	+0.13	64.55	+0.04	+ 5 10 41.4	+0.4	−0.2	16 2.1	+0.8
4	Hd.	WI	0 51 52.34	+0.14	64.70	+0.17	+ 5 33 39.0	+1.0	−0.6	16 1.7	+0.7
6	Fn.	WI	0 59 10.22	+0.21	64.54	−0.05	+ 6 19 13.6	−0.2	−0.1	16 0.3	−0.2
7	Wy.	WI	-- -- -----	----	-----	----	+ 6 41 52.4	+0.5	0.0	16 2.4	+2.2
10	Wy.	WI	1 13 48.11	+0.17	64.74	+0.01	+ 7 49 4.2	+0.5	−0.4	15 58.6	−0.8
11	Hd.	EI	1 17 28.21	+0.18	64.74	−0.03	+ 8 11 12.5	+0.2	0.0	15 59.1	0.0
13	Fn.	EI	-- -- -----	----	-----	----	+ 8 55 5.1	+0.3	−0.2	15 58.7	+0.1
14	Wy.	EI	1 28 30.29	+0.12	64.79	−0.11	+ 9 16 48.6	+0.6	−0.1	15 56.2	−2.1
17	Wy.	EI	1 39 35.49	+0.08	65.10	+0.05	+10 21 1.9	0.0	−0.2	15 57.0	−0.5
18	Hd.	EI	1 43 18.05	+0.13	65.15	+0.04	+10 42 6.0	−0.8	−0.1	15 57.1	−0.1
22	Fn.	EI	1 58 12.25	+0.07	65.31	−0.04	+12 4 38.2	−0.1	−0.2	15 56.3	+0.1
23	Wy.	EI	2 1 56.97	+0.11	65.49	+0.08	+12 24 46.0	−1.4	−0.2	15 55.4	−0.5
24	Hd.	EI	2 5 42.12	+0.12	65.47	−0.01	+12 44 44.1	−0.2	−0.1	15 55.1	−0.5
27	Wy.	EI	2 17 0.39	+0.09	65.77	+0.08	+13 43 17.2	−1.1	−0.3	15 55.6	+0.7
28	Hd.	EI	2 20 47.50	+0.12	65.80	+0.03	+14 2 23.1	+0.1	−0.2	15 55.0	+0.4
29	Fn.	WI	2 24 35.04	+0.08	65.77	−0.07	+14 21 13.1	−0.7	−0.1	15 53.9	−0.5
May 1	Hd.	WI	2 32 11.84	+0.18	66.02	+0.01	+14 58 12.7	+0.5	−0.2	15 53.6	−0.3
2	Fn.	WI	2 36 0.92	+0.14	66.06	−0.03	+15 16 18.6	−0.5	−0.2	15 53.8	+0.1
6	Fn.	WI	2 51 22.69	+0.12	66.28	−0.13	+16 26 11.5	−0.2	−0.1	15 51.8	−1.0
7	Wy.	WI	2 55 14.50	+0.12	66.60	+0.11	+16 42 59.8	+0.2	−0.2	15 53.2	+0.6
9	Fn.	WI	3 2 59.84	+0.16	66.56	−0.09	+17 15 45.5	+0.5	−0.1	15 51.1	−1.1
11	Hd.	WI	3 10 47.37	+0.12	66.80	−0.02	+17 47 21.4	−0.2	−0.1	15 50.9	−0.8
12	Wy.	WI	3 14 42.05	+0.14	66.84	−0.06	+18 2 42.6	−0.7	−0.1	15 51.2	−0.3
14	Hd.	WI	3 22 33.12	+0.12	67.08	+0.02	+18 32 32.2	−0.1	−0.1	15 51.6	+0.5
15	Wy.	WI	3 26 29.49	+0.05	67.14	0.00	+18 46 59.3	+0.2	−0.2	15 51.5	+0.6
16	Fn.	WI	3 30 26.59	+0.13	67.20	−0.02	+19 1 6.2	−0.8	−0.3	15 52.9	+2.2
18	Fn.	WI	3 38 22.46	+0.18	67.35	−0.03	+19 28 25.0	+0.2	−0.2	15 51.8	+1.5
19	Wy.	WI	3 42 21.14	+0.09	67.53	+0.07	+19 41 34.6	+0.4	−0.2	15 50.0	−0.1
20	Hd.	WI	3 46 20.45	+0.05	67.60	+0.06	+19 54 23.2	−0.3	−0.2	15 49.6	−0.3
21	Fn.	WI	3 50 20.45	+0.15	67.58	−0.03	+20 6 52.1	−0.5	−0.1	15 49.4	−0.3
23	Hd.	EI	3 58 21.83	+0.09	67.70	−0.06	+20 30 46.7	−2.1	−0.1	15 48.3	−1.1
25	Fn.	EI	4 6 25.41	+0.10	67.84	−0.06	+20 53 18.9	−1.7	0.0	15 49.2	+0.2
26	Wy.	EI	4 10 27.85	−0.01	68.01	+0.04	+21 4 2.7	−1.5	−0.1	15 49.2	+0.3
27	Hd.	EI	4 14 31.01	+0.11	67.96	−0.08	+21 14 24.7	−1.3	−0.1	15 46.8	−1.9
June 1	Hd.	EI	4 34 52.94	+0.15	68.30	−0.05	+22 0 38.4	−1.6	−0.2	15 47.0	−1.0
2	Fn.	EI	4 38 58.55	+0.15	68.38	−0.03	+22 8 44.6	−2.0	−0.2	15 48.8	+1.0

SUN

[No corrections have been applied for personal equation, for equinox, or for the difference day minus night]

Date	Observer	Instrument	Apparent Right Ascension of Center	Correction to Am.Eph.	Sidereal Time of Transit of Semi-diameter	Correction to Am.Eph.	Apparent Declination of Center	Correction to Am.Eph.	Red. for External Therm.	Vertical Semi-diameter	Correction to Am.Eph.
1914			h m s	s	s	s	° ′ ″	″	″	′ ″	″
June 3	Wy.	EI	3 43 4.49	+0.11	68.46	−0.01	+22 16 29.0	−0.9	*0.0*	15 46.3	−1.4
5	Fn.	EI	3 51 17.46	+0.09	68.45	−0.12	+22 30 46.0	−0.5	*−0.2*	15 47.0	−0.5
6	Wy.	EI	3 55 24.43	+0.07	68.52	−0.10	+22 37 18.7	−0.8	*−0.1*	15 47.0	−0.4
10	Hd.	EI	5 11 55.45	+0.15	68.78	+0.01	+22 59 31.9	−0.7	*−0.1*	15 46.7	−0.2
11	Fn.	EI	5 16 3.81	+0.11	68.74	−0.06	+23 4 4.3	−1.4	*−0.1*	15 46.8	0.0
12	Hd.	EI	5 20 12.42	+0.09	68.89	+0.06	+23 8 13.3	−1.2	*−0.1*	15 47.6	+0.9
13	Wy.	EI	5 24 21.30	+0.12	68.93	+0.08	+23 11 58.0	−0.8	*−0.2*	15 47.1	+0.5
15	Fn.	EI	5 32 39.49	+0.06	68.75	−0.14	+23 18 14.0	0.0	*−0.1*	15 45.0	−1.4
16	Hd.	EI	5 36 48.89	+0.11	69.02	+0.11	+23 20 43.1	−1.5	*−0.2*	15 47.7	+1.3
17	Wy.	EI	5 40 58.27	+0.02	68.98	+0.05	+23 22 50.3	−0.2	*−0.1*	15 46.3	0.0
18	Fn.	EI	5 45 7.94	+0.12	68.82	−0.12	+23 24 30.7	−0.9	*−0.1*	15 44.9	−1.3
20	Wy.	WI	5 53 27.33	+0.16	68.80	−0.15	+23 26 39.2	−0.3	*−0.2*	15 44.8	−1.3
23	Hd.	WI	6 5 56.39	+0.13	68.99	+0.06	+23 26 44.6	−0.3	*−0.1*	15 45.9	0.0
24	Wy.	WI	6 10 5.95	+0.08	68.98	+0.06	+23 25 57.2	+0.2	*−0.2*	15 45.1	−0.7
25	Fn.	WI	6 14 15.57	+0.16	68.88	−0.03	+23 24 44.4	0.0	*−0.1*	15 45.8	0.0
26	Hd.	WI	6 18 24.87	+0.07	68.86	−0.03	+23 23 6.7	−0.1	*−0.1*	15 45.7	−0.1
27	Wy.	WI	6 22 34.19	+0.14	68.80	−0.07	+23 21 4.8	+0.2	*−0.1*	15 45.1	−0.7
29	Fn.	WI	6 30 52.07	+0.06	68.70	−0.11	+23 15 46.3	−0.2	*−0.1*	15 44.6	−1.1
30	Hd.	WI	6 35 0.75	+0.07	68.88	+0.10	+23 12 31.2	+0.5	*−0.2*	15 46.7	+1.0
July 2	Fn.	WI	6 43 17.37	+0.14	68.70	−0.02	+23 4 45.9	−0.3	*−0.1*	15 45.6	−0.1
3	Hd.	WI	6 47 25.21	+0.12	68.76	+0.07	+23 0 16.7	−0.9	*−0.1*	15 45.6	−0.1
8	Fn.	WI	7 7 59.59	+0.09	68.37	−0.09	+22 31 56.6	−0.3	*−0.1*	15 45.2	−0.5
10	Fn.	WI	7 16 10.78	+0.09	68.22	−0.12	+22 17 51.6	−0.5	*−0.1*	15 44.7	−1.1
17	Hd.	WI	7 44 36.38	+0.10	67.89	+0.01	+21 16 38.1	+0.2	*−0.1*	15 46.6	+0.5
20	Fn.	EI	7 56 40.09	+0.15	67.65	0.00	+20 44 50.7	−2.5	*−0.2*	15 47.0	+0.8
21	Hd.	EI	8 0 40.25	+0.16	67.66	+0.09	+20 33 35.4	−0.4	*−0.3*	15 46.6	+0.3
22	Fn.	EI	8 4 39.85	+0.16	67.42	−0.07	+20 21 56.4	−1.4	*−0.1*	15 46.8	+0.4
23	Hd.	EI	8 8 38.81	+0.10	67.44	+0.03	+20 9 57.3	−1.9	*−0.2*	15 46.5	0.0
24	Fn.	EI	8 12 37.31	+0.17	67.22	−0.11	+19 57 38.2	−2.1	*−0.2*	15 46.0	−0.6
27	Fn.	EI	8 24 29.05	+0.17	67.00	−0.07	+19 18 44.2	−0.7	*−0.1*	15 46.5	−0.4
28	Hd.	EI	8 28 25.06	+0.15	67.06	+0.07	+19 5 7.8	−0.1	*−0.1*	15 46.1	−0.9
29	Fn.	EI	-- -- -----	-----	-----	----	+18 51 10.9	−1.1	*−0.2*	15 46.5	−0.6
Aug. 3	Fn.	EI	8 51 48.08	+0.15	66.39	−0.08	+17 36 59.4	−1.2	*−0.2*	15 48.1	+0.4
6	Fn.	EI	9 3 21.22	+0.12	66.16	−0.04	+16 49 1.1	−1.1	*−0.1*	15 48.3	+0.2
7	Hd.	EI	9 7 11.06	+0.11	66.14	+0.03	+16 32 29.5	−0.2	*−0.1*	15 48.1	−0.2
8	Wy.	EI	9 11 0.34	+0.12	66.02	−0.01	+16 15 39.8	−1.4	*−0.1*	15 47.0	−1.4
10	Hd.	WI	9 18 37.18	+0.13	65.84	−0.02	+15 41 17.3	+0.1	*0.0*	15 47.6	−1.1
11	Wy.	WI	9 22 24.78	+0.17	65.64	−0.13	+15 23 42.0	−0.4	*−0.1*	15 47.3	−1.6
13	Hd.	WI	9 29 58.23	+0.14	65.60	−0.01	+14 47 47.9	−0.5	*−0.3*	15 47.7	−1.5
14	Wy.	WI	9 33 44.14	+0.12	65.46	−0.07	+14 29 28.8	−1.1	*−0.2*	15 47.5	−1.9
15	Fn.	WI	9 37 29.56	+0.14	65.32	−0.13	+14 10 56.9	−0.5	*−0.1*	15 48.1	−1.4
17	Fn.	WI	9 44 58.84	+0.17	65.32	+0.01	+13 33 10.2	−1.7	*−0.3*	15 50.2	+0.3
18	Wy.	WI	9 48 42.66	+0.13	65.22	−0.02	+13 13 57.9	−1.5	*−0.3*	15 50.0	−0.1
20	Fn.	WI	9 56 8.91	+0.13	65.01	−0.09	+12 34 55.2	−1.4	*−0.1*	15 49.8	−0.6
29	An.	WI	10 29 14.43	+0.06	64.41	−0.13	+ 9 30 0.6	−0.2	*−0.3*	15 52.6	+0.3
31	Fn.	WI	10 36 31.28	+0.13	64.40	−0.04	+ 8 47 7.4	−1.0	*−0.2*	15 53.2	+0.4
Sept. 1	An.	WI	10 40 9.14	+0.11	64.31	−0.08	-- -- -----	---	---	-- ----	---
2	Wy.	WI	10 43 46.71	+0.11	64.26	−0.09	-- -- -----	---	---	-- ----	---
4	Fn.	WI	10 51 0.99	+0.12	64.27	0.00	+ 7 19 44.0	−1.7	*−0.2*	15 54.4	+0.7
5	Wy.	WI	10 54 37.65	+0.03	64.20	−0.03	+ 6 57 36.8	+0.3	*−0.4*	15 54.5	+0.5

SUN

[No corrections have been applied for personal equation, for equinox, or for the difference day minus night]

Date	Observer	Instrument	Apparent Right Ascension of Center	Correction to Am. Eph.	Sidereal Time of Transit of Semi-diameter	Correction to Am. Eph.	Apparent Declination of Center	Correction to Am. Eph.	Red. for External Therm.	Vertical Semi-diameter	Correction to Am. Eph.
1914			h m s	s	s	s	° ′ ″	″	″	′ ″	″
Sept. 9	Fn.	EI	11 9 2.62	+0.10	64.02	−0.10	+ 5 27 52.9	−0.8	*−0.3*	15 54.9	0.0
10	An.	EI	11 12 38.56	+0.23	64.11	+0.01	+ 5 5 14.0	+0.9	*−0.6*	15 57.8	+2.7
14	Fn.	EI	11 27 0.60	+0.13	63.97	−0.06	+ 3 33 40.0	−1.2	*−0.4*	15 56.7	+0.6
15	An.	EI	11 30 36.02	+0.18	64.10	+0.08	+ 3 10 37.5	0.0	*−0.4*	15 58.3	+1.9
16	Wy.	EI	11 34 11.26	+0.09	63.91	−0.10	-- -- ----	---	---	-- ----	---
18	An.	EI	11 41 21.98	+0.17	63.96	−0.05	+ 2 1 4.5	−1.2	*−0.4*	15 56.3	−0.9
21	Hd.	EI	11 52 8.09	+0.11	64.04	+0.01	+ 0 51 10.3	−0.1	*−0.3*	15 58.5	+0.5
22	Wy.	EI	11 55 43.59	+0.11	64.11	+0.07	+ 0 27 47.4	−1.3	*−0.4*	15 57.6	−0.6
23	An.	EI	11 59 19.35	+0.28	64.14	+0.08	+ 0 4 25.5	−0.3	*−0.3*	16 0.1	+1.6
26	An.	EI	12 10 6.67	+0.15	64.16	+0.03	− 1 5 46.8	−1.0	*−0.4*	16 0.3	+1.0
28	Hd.	WI	12 17 19.13	+0.19	64.39	+0.20	− 1 52 32.4	0.0	*−0.6*	16 2.1	+2.2
29	Wy.	WI	12 20 55.63	+0.19	64.21	−0.01	− 2 15 54.0	+0.4	*−0.5*	16 0.7	+0.5
30	An.	WI	12 24 32.27	+0.10	64.28	+0.02	− 2 39 15.5	−0.4	*−0.2*	16 1.0	+0.6
Oct. 1	Hd.	WI	12 28 9.27	+0.13	64.41	+0.11	− 3 2 33.4	+0.8	*−0.6*	16 2.6	+1.9
2	Wy.	WI	12 31 46.59	+0.20	64.40	+0.06	− 3 25 50.0	+1.4	*−0.6*	16 1.6	+0.6
3	An.	WI	12 35 23.92	−0.02	64.49	+0.10	− 3 49 6.0	+0.1	*−0.4*	16 1.8	+0.5
5	Wy.	WI	12 42 40.21	+0.19	64.51	+0.02	− 4 35 28.6	−1.2	*−0.3*	16 0.4	−1.4
6	Hd.	WI	12 46 18.80	+0.20	64.50	−0.04	− 4 58 33.1	+0.3	*−0.5*	16 2.1	0.0
10	An.	WI	13 0 57.16	+0.12	64.72	−0.07	− 6 30 17.2	−0.2	*−0.2*	16 2.8	−0.4
12	Hd.	WI	13 8 19.18	+0.15	64.98	+0.05	-- -- ----	---	---	-- ----	---
13	Wy.	WI	13 12 0.88	+0.09	64.94	−0.07	− 7 38 12.2	+0.6	*−0.4*	16 1.8	−2.2
17	An.	EI	13 26 53.50	+0.16	65.26	−0.07	− 9 7 17.6	+1.4	*−0.4*	16 5.5	+0.4
19	Hd.	EI	13 34 23.28	+0.13	65.56	+0.05	− 9 51 6.8	0.0	*−0.3*	16 4.4	−1.2
20	Wy.	EI	13 38 9.14	+0.17	65.54	−0.06	−10 12 47.9	+0.1	*−0.4*	16 4.4	−1.5
21	An.	EI	13 41 55.60	+0.16	65.74	+0.05	−10 34 19.1	+0.9	*−0.5*	16 6.5	+0.3
22	Hd.	EI	13 45 42.68	+0.12	65.84	+0.05	−10 55 42.5	+0.1	*−0.5*	16 6.3	−0.1
23	Fn.	EI	-- -- -----	----	-----	----	−11 16 54.1	+1.2	*−0.6*	16 5.8	−0.9
28	An.	EI	14 8 39.61	+0.15	66.48	+0.07	−13 0 14.2	+1.9	*−0.6*	16 9.7	+1.7
29	Fn.	EI	14 12 31.73	+0.27	66.48	−0.04	−13 20 20.9	+0.2	*−0.4*	16 7.4	−0.9
30	Hd.	EI	14 16 24.41	+0.20	66.72	+0.09	−13 40 12.8	+0.6	*−0.5*	16 9.4	+0.8
31	An.	EI	14 20 17.90	+0.19	66.86	+0.12	−13 59 52.0	+0.7	*−0.5*	16 10.0	+1.2
Nov. 2	Fn.	WI	14 28 7.25	+0.20	66.98	+0.02	−14 38 30.1	+0.6	*−0.4*	16 9.9	+0.6
3	An.	WI	14 32 3.12	+0.18	67.15	+0.07	−14 57 27.8	+0.8	*−0.4*	16 10.8	+1.2
4	Hd.	WI	14 35 59.76	+0.11	67.29	+0.09	−15 16 11.2	+0.8	*−0.3*	16 10.0	+0.2
5	Fn.	WI	14 39 57.37	+0.19	67.22	−0.10	−15 34 39.3	+1.2	*−0.7*	16 9.4	−0.7
6	Wy.	WI	14 43 55.75	+0.20	67.41	−0.03	−15 52 54.0	−0.4	*−0.5*	16 9.3	−1.0
7	Hd.	WI	14 47 54.87	+0.11	67.64	+0.08	−16 10 50.0	+0.9	*−0.2*	16 11.0	+0.5
9	Hd.	WI	14 55 55.94	+0.18	67.84	+0.04	−16 45 56.0	+0.6	*−0.7*	16 10.9	−0.1
10	Fn.	WI	14 59 57.63	+0.08	67.88	−0.04	-- -- ----	---	---	-- ----	---
11	An.	WI	15 4 0.35	+0.15	68.00	−0.04	−17 19 54.1	+0.6	*−0.3*	16 11.3	−0.1
12	Hd.	WI	15 8 3.83	+0.11	68.20	+0.04	−17 36 25.0	+2.1	*−0.5*	16 11.5	−0.2
13	Fn.	WI	15 12 8.22	+0.10	68.30	+0.02	−17 52 40.7	+0.7	*−0.2*	16 12.0	+0.1
14	An.	WI	15 16 13.55	+0.16	68.34	−0.05	−18 8 36.5	+0.6	*−0.5*	16 11.0	−1.1
16	Hd.	EI	15 24 26.70	+0.15	68.76	+0.13	−18 39 31.7	−0.6	*−0.5*	16 13.1	+0.6
17	Wy.	EI	15 28 34.60	+0.20	68.62	−0.13	−18 54 27.7	+0.9	*−0.5*	16 8.7	−4.0
18	Fn.	EI	15 32 43.36	+0.27	68.76	−0.10	−19 9 4.3	+1.6	*−0.6*	16 11.8	−1.1
20	Wy.	EI	15 41 3.14	+0.19	69.08	−0.01	−19 37 18.9	−1.0	*−0.5*	16 12.6	−0.7
23	Fn.	EI	15 53 39.01	+0.25	69.39	−0.03	−20 16 52.8	+1.5	*−0.7*	16 14.5	+0.6
24	Hd.	EI	15 57 52.43	+0.18	69.54	+0.02	−20 29 21.9	0.0	*−0.6*	16 14.8	+0.7
25	Wy.	EI	16 2 6.55	+0.06	69.50	−0.13	-- -- ----	---	---	-- ----	---

SUN

[No corrections have been applied for personal equation, for equinox, or for the difference day minus night]

Date	Observer	Instrument	Apparent Right Ascension of Center	Correction to Am. Eph.	Sidereal Time of Transit of Semi-diameter	Correction to Am. Eph.	Apparent Declination of Center	Correction to Am. Eph.	Red. for External Therm.	Vertical Semi-diameter	Correction to Am. Eph.
1914			h m s	s	s	s	° ′ ″	″	″	′ ″	″
Nov. 26	Wy.	EI	16 6 21.56	+0.09	69.70	−0.03	−20 53 8.1	+0.3	*−0.1*	16 14.0	−0.5
28	Wy.	EI	16 14 53.78	+0.18	69.92	−0.02	−21 15 20.0	+1.0	*−1.0*	16 14.8	0.0
Dec. 14	Fn.	WI	17 24 38.69	+0.09	70.98	−0.10	−23 12 11.4	+1.7	*−0.7*	16 17.1	+0.2
16	An.	WI	17 33 30.06	+0.19	71.28	+0.13	-- -- ----	---	---	-- ----	---
17	Fn.	WI	17 37 56.09	+0.22	71.23	+0.05	−23 21 16.7	+3.4	*−1.1*	16 17.5	+0.3
18	Hd.	WI	17 42 22.24	+0.17	71.18	−0.02	−23 23 25.6	+0.6	*−0.4*	16 17.7	+0.4
23	Hd.	WI	18 4 35.00	+0.24	71.29	+0.03	−23 26 51.8	+1.5	*−1.0*	16 18.7	+1.1
28	Fn.	WI	18 26 47.04	+0.17	71.06	−0.14	−23 18 32.4	+1.4	*−0.6*	16 16.5	−1.3
30	An.	EI	18 35 38.77	+0.13	71.19	+0.05	−23 11 55.4	+2.0	*−0.4*	16 18.5	+0.6
1915											
Jan. 2	An.	EI	18 48 54.50	+0.16	71.07	+0.04	−22 58 32.4	+1.6	*−0.2*	16 19.2	+1.3
5	Wy.	EI	19 2 7.28	+0.21	70.80	−0.07	-- -- ----	---	---	-- ----	---
7	Hd.	EI	19 10 53.64	+0.10	70.84	+0.09	−22 27 6.5	+1.4	*−0.5*	16 18.8	+1.0
8	Wy.	EI	19 15 16.36	+0.25	70.67	−0.01	−22 19 30.5	−0.4	*−0.6*	16 17.3	−0.5
9	An.	EI	19 19 38.33	+0.14	70.55	−0.06	−22 11 24.9	+1.0	*−0.6*	16 16.6	−1.2
13	An.	WI	19 37 1.20	+0.11	70.38	+0.08	−21 34 50.1	−0.5	*−0.2*	16 17.6	0.0
15	Fn.	WI	19 45 39.14	+0.19	70.04	−0.08	−21 13 58.6	+1.0	*−0.1*	16 18.3	+0.9
16	An.	WI	19 49 57.02	+0.13	70.06	+0.03	−21 2 57.2	+0.6	*−0.9*	16 18.3	+0.9
21	Wy.	EI	20 11 15.98	+0.18	69.42	−0.11	−20 1 52.8	+0.4	*−0.2*	16 14.3	−2.7
26	An.	EI	20 32 15.58	+0.22	69.15	+0.15	−18 51 27.0	+1.7	*−0.9*	16 17.8	+1.3
29	Wy.	EI	20 44 41.56	+0.22	68.66	0.00	−18 5 4.5	+0.1	*−0.6*	16 16.0	−0.1
Mar. 29	Fn.	EI	0 29 9.50	+0.07	64.50	+0.06	+ 3 9 0.7	−1.3	*−0.2*	16 4.4	+1.6
30	Wy.	EI	0 32 47.69	+0.14	64.43	−0.02	+ 3 32 23.7	+0.2	*−0.3*	16 1.3	−1.3
31	An.	EI	0 36 25.82	+0.09	64.56	+0.10	+ 3 55 40.9	−0.1	*−0.3*	16 4.5	+2.2
Apr. 1	Fn.	EI	0 40 4.18	+0.20	64.47	0.00	+ 4 18 54.3	+0.1	*−0.3*	16 4.7	+2.7
2	Wy.	EI	0 43 42.50	+0.16	64.48	−0.01	+ 4 42 2.3	−0.5	*−0.4*	16 0.5	−1.2
6	Wy.	EI	0 58 17.31	+0.06	64.56	−0.02	+ 6 13 44.7	+0.3	*−0.1*	15 58.6	−2.0
7	An.	EI	1 1 56.60	+0.14	64.62	+0.01	+ 6 36 25.2	+0.3	*−0.1*	16 0.4	+0.1
8	Hd.	EI	1 5 36.00	+0.11	64.70	+0.06	+ 6 58 58.0	−0.8	*−0.3*	16 2.1	+2.1
9	Fn.	EI	1 9 15.71	+0.15	64.57	−0.11	+ 7 21 25.5	−0.2	*−0.1*	15 58.9	−0.8
10	An.	EI	1 12 55.57	+0.08	64.68	−0.04	+ 7 43 44.4	−0.8	*−0.1*	15 59.5	0.0
12	Hd.	WI	1 20 16.34	+0.15	64.81	+0.01	+ 8 28 0.4	−0.3	*−0.2*	15 58.9	0.0
13	Fn.	WI	1 23 57.11	+0.12	64.82	−0.02	+ 8 49 55.8	−0.2	*−0.2*	15 58.9	+0.3
14	An.	WI	1 27 38.14	+0.03	64.96	+0.07	+ 9 11 42.5	+0.1	*−0.1*	16 1.8	+3.4
15	Hd.	WI	1 31 19.63	+0.08	65.04	+0.10	+ 9 33 20.0	+0.4	*−0.3*	16 0.2	+2.1
16	Fn.	WI	1 35 1.45	+0.12	64.93	−0.06	+ 9 54 47.3	0.0	*−0.2*	15 58.0	+0.2
19	Fn.	WI	1 46 8.96	+0.11	65.14	−0.02	+10 58 10.7	+1.0	*0.0*	15 56.5	−0.5
20	Wy.	WI	1 49 52.21	+0.09	65.14	−0.08	+11 18 55.3	−0.4	*0.0*	15 55.2	−1.6
21	An.	WI	1 53 35.90	+0.11	65.41	+0.13	+11 39 30.5	0.0	*−0.2*	15 58.6	+2.1
23	Wy.	WI	2 1 4.47	+0.09	65.24	−0.16	+12 20 4.9	−0.1	*−0.1*	15 53.8	−2.2
26	Fn.	EI	2 12 20.62	+0.04	65.52	−0.09	+13 19 23.8	−0.4	*−0.1*	15 55.1	−0.2
27	Wy.	EI	2 16 7.05	+0.14	65.62	−0.06	+13 38 43.4	−1.3	*0.0*	15 53.7	−1.3
28	Hd.	EI	2 19 53.80	+0.07	65.78	+0.03	+13 57 51.0	−0.7	*−0.1*	15 54.5	−0.3
30	Wy.	EI	2 27 29.06	+0.16	65.92	+0.01	+14 35 23.8	−0.5	*−0.2*	15 54.0	−0.3
May 3	Fn.	EI	2 38 55.80	+0.13	66.13	−0.02	+15 29 54.9	+0.2	*−0.2*	15 54.5	+0.9
4	Wy.	EI	2 42 45.78	+0.07	66.29	+0.06	+15 47 35.0	+0.2	*−0.3*	15 54.0	+0.7
8	Hd.	EI	2 58 11.66	+0.02	66.54	−0.01	+16 55 36.1	−0.4	*−0.1*	15 51.3	−1.1
10	Hd.	EI	3 5 58.25	+0.12	66.78	+0.06	+17 27 59.6	+2.1	*−0.1*	15 52.7	+0.7
11	Fn.	EI	3 9 52.30	+0.05	66.68	−0.12	+17 43 41.2	−0.8	*0.0*	15 50.5	−1.3
13	Hd.	WI	3 17 42.37	+0.13	67.04	+0.08	-- -- ----	---	---	-- ----	---
14	Fn.	WI	3 21 38.21	+0.11	67.05	+0.01	+18 29 6.7	−0.8	*−0.3*	15 51.2	+0.1

SUN

[No corrections have been applied for personal equation, for equinox, or for the difference day minus night]

Date	Observer	Instrument	Apparent Right Ascension of Center	Correction to Am. Eph.	Sidereal Time of Transit of Semi-diameter	Correction to Am. Eph.	Apparent Declination of Center	Correction to Am. Eph.	Red. for External Therm.	Vertical Semi-diameter	Correction to Am. Eph.
1915			h m s	s	s	s	° ′ ″	″	″	′ ″	″
May 15	Wy.	WI	3 25 34.67	+0.13	67.04	−0.08	+18 43 38.3	−0.6	*−0.2*	15 49.1	−1.8
18	Wy.	EI	3 37 27.40	+0.16	67.31	−0.06	+19 25 18.4	+0.1	*−0.2*	15 48.0	−2.3
22	Fn.	WI	3 53 25.24	+0.13	67.59	−0.08	+20 16 12.0	−0.2	*0.0*	15 49.3	−0.3
25	Fn.	WI	4 5 29.03	+0.09	67.88	−0.02	+20 50 44.9	+0.2	*−0.2*	15 50.9	+1.8
26	An.	WI	4 9 31.45	+0.25	67.86	−0.11	+21 1 33.4	+0.5	*−0.1*	15 49.2	+0.2
27	Wy.	WI	4 13 34.12	+0.17	68.22	+0.18	+21 11 59.5	+0.1	*−0.2*	15 49.6	+0.8
28	Fn.	WI	4 17 37.27	+0.10	67.98	−0.13	+21 22 3.6	−0.3	*0.0*	15 47.7	−0.9
31	Wy.	WI	4 29 49.65	+0.05	68.28	−0.01	+21 50 4.7	+0.4	*−0.2*	15 49.2	+1.0
June 5	Hd.	WI	4 50 19.03	+0.08	68.64	+0.08	+22 29 8.9	+0.1	*−0.1*	15 48.4	+0.9
7	Fn.	EI	4 58 33.61	+0.27	68.50	−0.15	+22 42 2.4	−0.3	*−0.1*	15 48.2	+1.0
8	Hd.	EI	5 2 41.13	+0.10	68.68	−0.01	-- -- ----	---	---	-- ----	---
9	An.	EI	5 6 49.19	+0.17	68.85	+0.12	+22 53 19.9	−1.4	*−0.2*	15 48.9	+1.9
10	Fn.	EI	5 10 57.45	+0.17	68.76	−0.01	+22 58 23.9	−0.4	*−0.2*	15 47.8	+0.9
11	Hd.	WI	5 15 5.89	+0.10	68.78	−0.02	+23 3 2.4	−0.7	*0.0*	15 46.7	−0.1
12	An.	WI	5 19 14.63	+0.10	68.84	+0.01	+23 7 16.2	−1.3	*−0.1*	15 47.0	+0.3
14	Fn.	WI	5 27 32.73	+0.15	68.91	+0.04	+23 14 31.8	−1.1	*−0.2*	15 47.4	+0.9
15	Hd.	WI	5 31 41.89	+0.05	68.85	−0.04	+23 17 33.9	+0.2	*−0.1*	15 46.4	0.0
16	Wy.	WI	5 35 51.33	+0.11	68.80	−0.11	+23 20 10.4	+0.6	*−0.2*	15 44.5	−1.8
17	Fn.	WI	5 40 0.93	+0.23	68.93	+0.01	+23 22 21.1	−0.1	*−0.1*	15 47.3	+1.0
18	Hd.	WI	5 44 10.36	+0.12	68.94	+0.01	+23 24 8.8	+1.0	*0.0*	15 45.6	−0.6
19	Wy.	WI	5 48 19.92	+0.09	68.83	−0.11	+23 25 29.7	0.0	*−0.1*	15 45.4	−0.7
21	Fn.	EI	5 56 39.12	+0.09	68.87	−0.08	+23 26 58.4	−0.7	*0.0*	15 44.8	−1.2
22	Wy.	EI	6 0 48.67	+0.07	68.88	−0.07	-- -- ----	---	---	-- ----	---
23	An.	EI	6 4 58.18	+0.07	68.96	+0.02	+23 26 49.1	−0.3	*−0.1*	15 46.5	+0.6
24	Fn.	EI	6 9 7.69	+0.14	68.99	+0.06	+23 26 7.2	−0.2	*−0.2*	15 46.7	+0.8
25	Wy.	EI	6 13 16.95	+0.06	68.92	0.00	+23 25 0.1	−0.6	*−0.1*	15 45.3	−0.5
28	Wy.	EI	6 25 44.38	+0.20	68.87	+0.01	+23 19 11.8	−0.8	*−0.2*	15 46.6	+0.8
29	Hd.	EI	6 29 53.05	+0.08	68.88	+0.05	+23 16 26.6	−0.8	*−0.1*	15 45.5	−0.2
30	An.	WI	6 34 1.69	+0.11	68.72	−0.08	+23 13 18.5	+0.8	*0.0*	15 43.7	−2.0
July 1	Wy.	WI	6 38 10.11	+0.13	68.72	−0.05	+23 9 42.2	−1.4	*−0.2*	15 44.9	−0.8
3	An.	WI	6 46 26.13	+0.03	68.74	+0.04	+23 1 23.5	+1.0	*−0.1*	15 45.0	−0.7
6	Fn.	WI	6 58 48.39	+0.14	68.56	−0.01	+22 45 50.4	+0.3	*−0.1*	15 46.5	+0.9
7	An.	WI	7 2 55.10	+0.10	68.49	−0.03	+22 39 50.6	−1.0	*−0.1*	15 45.2	−0.4
9	Fn.	WI	7 11 7.57	+0.13	68.37	−0.04	+22 26 43.2	−0.5	*−0.1*	15 46.0	+0.3
10	An.	WI	7 15 13.21	+0.12	68.28	−0.07	+22 19 34.2	−0.5	*0.0*	15 44.6	−1.1
12	Hd.	WI	7 23 23.25	+0.13	68.26	+0.03	+22 4 7.1	−0.3	*−0.1*	15 45.8	0.0
13	Fn.	WI	7 27 27.70	+0.23	68.13	−0.04	+21 55 50.1	+0.6	*−0.1*	15 45.8	0.0
14	An.	WI	7 31 31.53	+0.18	68.10	0.00	+21 47 8.7	−0.3	*−0.1*	15 46.7	+0.9
16	Fn.	WI	7 39 37.71	+0.09	67.94	−0.02	+21 28 40.3	−1.0	*−0.1*	15 45.4	−0.6
19	Fn.	EI	7 51 43.17	+0.10	67.64	−0.11	+20 58 15.3	−0.9	*−0.1*	15 45.1	−1.1
21	An.	EI	7 59 44.08	+0.16	67.58	−0.01	+20 36 13.6	+0.3	*−0.1*	15 48.0	+1.7
22	Fn.	EI	8 3 43.55	+0.07	67.46	−0.05	+20 24 39.6	−1.1	*−0.2*	15 45.8	−0.6
23	Hd.	EI	8 7 42.61	+0.16	67.48	+0.05	+20 12 46.8	−0.8	*−0.1*	15 46.4	−0.1
24	An.	EI	8 11 40.89	+0.06	67.48	+0.13	+20 0 33.0	−1.3	*−0.1*	15 47.5	+0.9
26	Fn.	EI	8 19 35.90	+0.06	67.08	−0.10	+19 35 7.0	−1.0	*−0.1*	15 46.4	−0.4
27	Hd.	EI	-- -- -----	----	-----	----	+19 21 54.4	−1.2	*−0.2*	15 46.1	−0.7
28	An.	EI	-- -- -----	----	-----	----	+19 8 23.2	−0.7	*−0.2*	15 47.5	+0.5
29	Fn.	EI	8 31 23.95	+0.07	66.86	−0.06	+18 54 31.9	−1.3	*−0.1*	15 46.7	−0.3
30	Hd.	EI	8 35 18.89	+0.17	66.86	+0.03	+18 40 22.5	−1.3	*+0.1*	15 46.4	−0.8
31	An.	EI	8 39 13.13	+0.17	66.72	−0.02	+18 25 56.9	+1.0	*−0.1*	15 47.2	−0.1

SUN

[No corrections have been applied for personal equation, for equinox, or for the difference day minus night]

Date	Observer	Instrument	Apparent Right Ascension of Center	Correction to Am. Eph.	Sidereal Time of Transit of Semi-diameter	Correction to Am. Eph.	Apparent Declination of Center	Correction to Am. Eph.	Red. for External Therm.	Vertical Semi-diameter	Correction to Am. Eph.
1915			h m s	s	s	s	° ′ ″	″	″	′ ″	″
Aug. 2	Fn.	EI	8 46 59.78	+0.09	66.51	−0.06	+17 56 4.8	−0.8	*0.0*	15 47.2	−0.3
3	An.	EI	8 50 52.24	+0.07	66.48	−0.01	+17 40 43.8	−0.1	*0.0*	15 48.1	+0.5
4	Hd.	EI	8 54 44.20	+0.14	66.46	+0.06	+17 25 3.3	−1.6	*−0.2*	15 47.9	+0.1
6	An.	EI	9 2 26.26	+0.19	66.32	+0.10	+16 52 55.4	−0.5	*−0.1*	15 48.4	+0.4
9	Fn.	EI	9 13 54.98	+0.27	65.98	+0.02	+16 2 39.1	−0.7	*−0.2*	15 48.2	−0.2
13	An.	EI	9 29 4.92	+0.13	65.76	+0.13	+14 52 1.5	−1.3	*−0.2*	15 50.6	+1.5
14	Wy.	EI	9 32 51.04	+0.15	65.47	−0.08	+14 33 46.7	−0.6	*−0.2*	15 48.6	−0.7
16	Fn.	EI	9 40 21.50	+0.10	65.28	−0.12	+13 56 34.2	−0.8	*−0.2*	15 48.0	−1.6
18	Wy.	WI	9 47 49.86	+0.14	65.08	−0.18	+13 18 28.9	−1.3	*−0.2*	15 47.9	−2.1
19	Fn.	WI	9 51 33.22	+0.13	65.12	−0.06	+12 59 7.5	−1.3	*−0.3*	15 50.8	+0.6
23	Wy.	WI	10 6 21.77	+0.19	64.84	−0.07	+11 39 42.7	−1.2	*−0.3*	15 49.8	−1.2
24	Hd.	WI	10 10 2.68	+0.14	64.83	−0.02	+11 19 24.0	−0.4	*−0.1*	15 51.3	+0.1
25	Wy.	WI	10 13 43.19	+0.13	64.68	−0.10	+10 58 52.4	−1.8	*−0.2*	15 50.4	−1.0
26	Hd.	WI	10 17 23.27	+0.10	64.70	−0.02	+10 38 13.2	−0.3	*−0.1*	15 50.8	−0.8
31	Wy.	WI	10 35 38.27	+0.14	64.30	−0.14	+ 8 52 21.5	−1.6	*−0.1*	15 51.2	−1.5
Sept. 3	Hd.	WI	10 46 31.43	+0.18	64.34	+0.03	+ 7 47 6.7	−0.1	*−0.3*	15 51.7	−1.6
4	Wy.	WI	10 50 8.44	+0.02	64.18	−0.09	+ 7 25 4.9	−0.7	*−0.2*	15 51.5	−2.1
7	Wy.	WI	11 0 58.69	+0.17	64.14	−0.03	+ 6 18 17.4	−2.0	*−0.1*	15 53.2	−1.1
8	Hd.	WI	11 4 34.94	+0.13	64.14	0.00	+ 5 55 50.5	−0.4	*−0.3*	15 54.6	+0.1
9	Wy.	WI	11 8 11.02	+0.10	64.12	+0.01	+ 5 33 14.6	−2.0	*−0.3*	15 54.9	+0.1
10	Hd.	WI	11 11 46.96	+0.10	64.20	+0.11	+ 5 10 36.0	−0.7	*−0.3*	15 54.7	−0.3
11	Wy.	EI	11 15 22.82	+0.17	64.02	−0.05	+ 4 47 50.7	−0.8	*−0.3*	15 54.3	−1.0
13	Hd.	EI	11 22 34.00	+0.16	64.02	−0.02	+ 4 2 6.1	−0.8	*−0.2*	15 54.9	−0.9
14	Wy.	EI	11 26 9.40	+0.13	63.99	−0.04	+ 3 39 8.0	−0.2	*−0.2*	15 55.1	−0.9
15	Hd.	EI	11 29 44.70	+0.09	64.00	−0.02	-- -- ----	---	---	-- ----	---
16	Wy.	EI	11 33 20.02	+0.13	63.92	−0.09	+ 2 52 59.2	−0.5	*−0.2*	15 55.5	−1.1
17	Hd.	EI	11 36 55.32	+0.20	64.06	+0.05	+ 2 29 49.4	−1.1	*−0.4*	15 56.9	+0.1
18	Wy.	EI	11 40 30.47	+0.15	64.02	+0.01	+ 2 6 38.1	−0.5	*−0.5*	15 56.6	−0.5
20	Hd.	EI	11 47 40.89	+0.16	64.00	−0.02	+ 1 20 6.8	−0.6	*−0.2*	15 57.2	−0.4
21	Wy.	EI	11 51 16.15	+0.16	63.94	−0.09	+ 0 56 47.5	−1.4	*−0.2*	15 57.2	−0.7
22	Hd.	EI	11 54 51.45	+0.13	64.06	+0.02	+ 0 33 28.6	−0.2	*−0.5*	15 58.7	+0.5
23	Hd.	EI	11 58 26.86	+0.13	64.10	+0.04	+ 0 10 7.6	+0.2	*−0.4*	15 58.6	+0.1
24	Wy.	EI	12 2 2.49	+0.24	64.10	+0.02	− 0 13 15.4	−0.4	*−0.5*	15 58.8	+0.1
25	Wy.	EI	12 5 38.15	+0.24	64.06	−0.04	− 0 36 38.5	−0.5	*−0.3*	15 57.1	−1.9
28	Fn.	EI	12 16 26.14	+0.18	64.10	−0.08	− 1 46 47.7	+0.1	*−0.5*	15 58.7	−1.1
30	Hd.	EI	12 23 39.28	+0.19	64.22	−0.02	− 2 33 32.0	−0.5	*−0.2*	15 58.9	−1.4
Oct. 4	Wy.	WI	12 38 8.91	+0.13	64.34	−0.08	− 4 6 40.2	−0.4	*−0.2*	16 0.6	−0.8
8	Hd.	WI	12 52 44.17	+0.08	64.72	+0.08	− 5 39 2.8	+0.1	*−0.4*	16 3.0	+0.5
9	Fn.	WI	12 56 24.10	+0.17	64.70	0.00	− 6 1 58.9	−0.2	*−0.4*	16 3.2	+0.4
11	Fn.	WI	13 3 45.14	+0.22	64.86	+0.02	− 6 47 35.6	0.0	*−0.3*	16 4.0	+0.6
12	Wy.	WI	13 7 26.20	+0.09	64.94	+0.03	− 7 10 15.0	+0.9	*−0.4*	16 3.5	−0.1
13	Hd.	WI	13 11 7.84	+0.07	65.00	+0.01	− 7 32 49.2	+1.1	*−0.3*	16 4.3	+0.4
19	Hd.	WI	-- -- -----	-----	-----	----	− 9 45 50.2	−0.3	*−0.1*	16 3.8	−1.8
21	Hd.	WI	13 41 0.62	+0.17	65.84	+0.17	−10 29 5.9	−0.7	*−0.5*	16 8.2	+2.1
23	Fn.	WI	13 48 34.89	+0.20	65.83	−0.04	−11 11 43.6	−0.2	*−0.6*	16 6.9	+0.2
25	Hd.	WI	13 56 11.87	+0.19	66.06	−0.01	−11 53 39.6	+1.8	*−0.5*	16 7.6	+0.4
26	Fn.	WI	14 0 1.44	+0.20	66.15	−0.02	−12 14 23.6	+0.8	*−0.3*	16 7.0	−0.5
27	Wy.	WI	14 3 51.66	+0.12	66.24	−0.03	−12 34 56.5	−0.2	*−0.2*	16 7.0	−0.7
28	Hd.	EI	14 7 42.69	+0.10	66.30	−0.08	−12 55 16.1	+0.4	*−0.9*	16 8.5	+0.5
29	Fn.	EI	14 11 34.55	+0.15	66.42	−0.07	−13 15 25.3	−0.6	*−0.5*	16 8.2	0.0

SUN

[No corrections have been applied for personal equation, for equinox, or for the difference day minus night]

Date	Observer	Instrument	Apparent Right Ascension of Center	Correction to Am. Eph.	Sidereal Time of Transit of Semi-diameter	Correction to Am. Eph.	Apparent Declination of Center	Correction to Am. Eph.	Red. for External Therm.	Vertical Semi-diameter	Correction to Am. Eph.
1915			h m s	s	s	s	° ′ ″	″	″	′ ″	″
Oct. 30	Wy.	EI	14 15 27.14	+0.14	66.55	−0.05	−13 35 20.7	−0.1	*−0.2*	16 7.5	−1.0
Nov. 1	Fn.	EI	14 23 14.71	+0.14	66.80	−0.03	−14 14 33.4	+0.2	*−0.4*	16 8.2	−0.8
3	Hd.	EI	14 31 5.55	+0.15	67.14	+0.08	−14 52 52.3	−0.2	*−0.4*	16 9.2	−0.3
5	Wy.	EI	14 38 59.66	+0.12	67.16	−0.13	-- -- ----	---	---	-- ----	---
6	Hd.	EI	14 42 57.97	+0.11	67.42	+0.01	−15 48 30.8	−0.6	*−1.0*	16 10.7	+0.5
8	Wy.	EI	14 50 57.21	+0.19	67.58	−0.07	−16 24 16.6	+1.0	*−0.3*	16 9.3	−1.4
9	Hd.	WI	-- -- -----	----	-----	----	−16 41 45.6	+0.9	*−0.2*	16 10.4	−0.5
10	Fn.	WI	14 58 59.72	+0.18	67.87	−0.02	−16 58 56.2	+2.2	*−0.8*	16 12.1	+1.0
11	Wy.	WI	15 3 2.17	+0.12	67.90	−0.11	−17 15 52.9	0.0	*−0.5*	16 7.9	−3.5
13	Fn.	WI	15 11 9.77	+0.20	68.16	−0.09	−17 48 47.1	+0.7	*−0.7*	16 12.2	+0.4
15	Hd.	WI	15 19 20.45	+0.04	68.57	+0.08	−18 20 27.6	+0.6	*−0.3*	16 11.7	−0.6
16	Fn.	WI	15 23 27.24	+0.17	68.48	−0.13	−18 35 49.6	0.0	*−0.5*	16 11.6	−0.9
17	Wy.	WI	15 27 34.70	+0.14	68.72	−0.01	−18 50 50.3	+0.8	*−0.4*	16 12.9	+0.2
18	Hd.	WI	15 31 43.00	+0.12	68.90	+0.05	−19 5 31.6	+0.9	*−0.9*	16 13.5	+0.6
19	Fn.	EI	15 35 52.22	+0.19	68.88	−0.08	−19 19 54.1	−0.7	*−0.2*	16 13.0	−0.1
20	Wy.	EI	15 40 2.17	+0.18	69.09	+0.02	−19 33 52.4	+1.0	*−0.5*	16 12.6	−0.7
22	Fn.	EI	15 48 24.62	+0.26	69.27	−0.02	−20 0 49.2	+0.4	*−0.7*	16 15.0	+1.3
24	Hd.	EI	15 56 50.16	+0.21	69.54	+0.04	−20 26 16.9	+1.1	*−0.8*	16 13.7	−0.4
26	Wy.	EI	16 5 18.84	+0.16	69.68	−0.03	−20 50 14.9	+1.0	*−0.2*	16 13.5	−0.9
29	Hd.	EI	16 18 7.66	+0.19	70.06	+0.04	−21 23 15.6	+1.6	*−0.8*	16 14.9	0.0
30	Fn.	EI	16 22 25.27	+0.08	70.10	−0.01	−21 33 27.7	+1.8	*−0.9*	16 16.0	+0.9
Dec. 1	Wy.	EI	16 26 43.80	+0.18	70.08	−0.12	−21 43 17.0	+0.2	*−0.4*	16 13.2	−2.0
2	Wy.	EI	16 31 2.83	+0.10	70.36	+0.08	−21 52 39.0	+0.8	*−0.7*	16 15.3	−0.1
4	Hd.	EI	16 39 43.02	+0.14	70.51	+0.06	−22 10 8.8	+0.8	*−0.5*	16 16.2	+0.5
6	Fn.	WI	16 48 25.57	+0.12	70.54	−0.06	−22 25 57.2	−0.9	*−0.3*	16 17.1	+1.1
7	Wy.	WI	16 52 47.73	+0.16	70.67	0.00	−22 33 10.7	−0.3	*−0.5*	16 16.3	+0.2
9	Hd.	WI	-- -- -----	----	-----	----	−22 46 18.6	0.0	*−0.5*	16 14.9	−1.4
10	Wy.	WI	17 5 57.01	+0.16	70.84	−0.03	−22 52 11.4	+1.1	*−0.4*	16 15.6	−0.9
15	Fn.	WI	17 28 0.32	+0.16	71.14	+0.03	−23 14 51.4	+0.5	*−0.6*	16 15.2	−1.8
16	Fn.	WI	17 32 25.78	+0.07	71.08	−0.06	−23 17 58.9	+1.9	*−0.8*	16 17.4	+0.3
20	Hd.	WI	17 50 10.01	+0.11	71.20	−0.03	−23 25 55.5	+0.9	*−0.8*	16 16.0	−1.4
21	Fn.	WI	17 54 36.46	+0.17	71.22	−0.03	−23 26 44.6	+0.4	*−0.6*	16 17.5	0.0
22	Wy.	WI	17 59 2.92	+0.17	71.17	−0.09	−23 27 4.6	+0.7	*−0.4*	16 16.7	−0.9
27	Wy.	WI	18 21 15.18	+0.12	71.10	−0.13	−23 21 42.2	+0.6	*−0.2*	16 15.3	−2.5
30	Wy.	EI	18 34 33.37	+0.02	71.13	−0.02	−23 12 50.7	+0.1	*−0.3*	16 16.8	−1.0
1916											
Jan. 3	Hd.	EI	18 52 14.74	+0.15	71.08	+0.09	−22 54 29.4	+1.1	*−0.7*	16 19.1	+1.3
4	Fn.	EI	18 56 39.18	+0.07	70.84	−0.10	−22 48 44.5	+2.0	*−0.7*	16 15.4	−2.4
5	Wy.	EI	19 1 3.42	+0.18	70.86	−0.02	−22 42 34.4	+0.8	*−0.2*	16 17.4	−0.4
8	Hd.	EI	19 14 13.15	+0.17	70.81	+0.11	−22 21 17.9	+1.9	*−1.1*	16 18.6	+0.8
14	Wy.	EI	19 40 18.02	+0.29	70.20	−0.04	−21 27 3.8	+0.4	*−0.5*	16 16.4	−1.2
21	Hd.	EI	20 10 13.42	+0.15	69.54	−0.02	−20 5 4.4	+1.1	*−0.5*	16 16.0	−1.0
24	Hd.	EI	20 22 51.91	+0.16	69.36	+0.12	−19 24 11.1	+1.6	*−0.6*	16 18.4	+1.7
25	Fn.	EI	20 27 3.28	+0.24	69.08	−0.05	−19 9 50.6	+0.9	*−0.4*	16 16.8	+0.2
26	Wy.	EI	20 31 13.67	+0.12	68.86	−0.16	−18 55 8.6	+0.6	*−0.2*	16 14.3	−2.2
27	Wy.	EI	20 35 23.45	+0.17	68.80	−0.11	−18 40 6.1	0.0	*−0.2*	16 14.6	−1.8
31	Fn.	EI	-- -- -----	---	-----		−17 36 32.5	+0.7	*−0.1*	16 15.2	−0.6
Feb. 3	Hd.	EI	21 4 9.10	+0.11	68.14	+0.04	−16 45 33.7	+0.6	*−0.7*	16 16.4	+1.0
4	Wy.	EI	21 8 12.49	+0.23	67.98	−0.01	−16 27 57.9	+1.0	*−1.0*	16 15.4	+0.2
7	Wy.	EI	21 20 17.27	+0.14	67.62	−0.03	−15 33 31.7	+0.5	*−0.3*	16 14.2	−0.6
8	Hd.	WI	-- -- -----	----	-----	----	−15 14 50.0	+1.0	*−0.5*	16 14.7	+0.1

SUN

[No corrections have been applied for personal equation, for equinox, or for the difference day minus night]

Date	Observer	Instrument	Apparent Right Ascension of Center	Correction to Am. Eph.	Sidereal Time of Transit of Semi-diameter	Correction to Am. Eph.	Apparent Declination of Center	Correction to Am. Eph.	Red. for External Therm.	Vertical Semi-diameter	Correction to Am. Eph.
1916			h m s	s	s	s	° ′ ″	″	″	′ ″	″
Feb. 10	Fn.	WI	21 32 14.75	+0.13	67.24	−0.07	−14 36 41.5	+1.6	−0.5	16 14.5	+0.2
15	Fn.	WI	21 51 54.55	+0.05	66.82	+0.06	−12 57 14.6	+1.6	−1.0	16 14.2	+0.8
16	Wy.	WI	21 55 48.33	+0.15	66.48	−0.18	−12 36 42.4	+1.4	−0.3	16 10.3	−2.9
17	Wy.	WI	21 59 41.21	+0.09	66.57	+0.01	−12 15 57.4	+1.9	−0.5	16 12.2	−0.8
19	Hd.	WI	22 7 25.07	+0.19	66.44	+0.08	−11 33 54.5	+1.1	−0.5	16 13.3	+0.7
21	Fn.	WI	-- -- -----	----	-----	----	−10 51 7.4	+0.8	−1.1	16 14.8	+2.7
26	Fn.	WI	-- -- -----	----	-----	----	− 9 1 17.9	+1.1	−0.4	16 10.5	−0.5
28	Fn.	WI	22 41 40.25	+0.21	65.63	+0.08	− 8 16 21.5	+1.6	−0.6	16 12.1	+1.6
Mar. 1	Wy.	WI	22 49 10.57	+0.06	65.35	−0.05	− 7 30 57.7	+0.2	−0.3	16 9.2	−0.8
4	Wy.	WI	-- -- -----	----	-----	----	− 6 22 1.9	+0.4	−0.3	16 7.8	−1.5
11	Wy.	WI	23 26 15.63	+0.10	64.80	0.00	− 3 38 28.5	−0.5	−0.7	16 7.9	+0.4
May 29	Fn.	EI	-- -- -----	----	-----	----	+21 38 50.3	−0.4	−0.1	15 46.9	−1.4
June 1	Fn.	EI	4 37 0.94	+0.13	68.51	+0.12	+22 4 51.5	−1.1	−0.2	15 49.7	+1.8
2	Hd.	EI	4 41 6.81	+0.08	68.42	−0.02	+22 12 46.3	−1.0	0.0	15 46.9	−0.9
5	Hd.	EI	4 53 26.71	+0.05	68.64	+0.05	+22 34 10.8	−0.2	−0.2	15 47.1	−0.3
8	Hd.	EI	5 5 49.59	+0.17	68.74	+0.02	+22 52 1.4	+0.2	−0.1	15 47.6	+0.6
12	Wy.	EI	5 22 23.35	+0.21	68.85	+0.01	+23 10 9.4	−0.9	−0.1	15 47.0	+0.3
13	Fn.	EI	5 26 32.17	+0.13	68.90	+0.04	+23 13 41.0	−0.7	−0.1	15 46.4	−0.2
20	Hd.	WI	5 55 37.64	+0.18	69.03	+0.09	+23 26 52.2	+0.7	−0.2	15 46.1	+0.1
22	Fn.	WI	6 3 56.74	+0.14	68.83	−0.11	+23 26 53.4	−0.9	0.0	15 45.4	−0.5
23	Hd.	WI	6 8 6.33	+0.19	68.98	+0.05	+23 26 18.6	+0.2	−0.1	15 45.5	−0.4
26	Hd.	WI	6 20 34.45	+0.12	68.89	0.00	+23 22 1.4	−0.7	−0.1	15 46.8	+1.1
29	Hd.	WI	6 33 1.48	+0.15	68.83	+0.02	+23 14 2.8	−0.7	−0.2	15 45.9	+0.2
July 3	Wy.	WI	6 49 34.45	+0.20	68.59	−0.08	+22 57 43.8	+0.3	−0.1	15 44.2	−1.4
7	Fn.	EI	7 6 2.35	+0.14	68.52	+0.04	+22 34 58.1	−1.4	−0.1	15 46.0	+0.3
11	Fn.	EI	7 22 23.90	+0.05	68.15	−0.10	+22 5 59.7	−1.4	−0.1	15 44.2	−1.6
13	Hd.	EI	7 30 32.10	+0.15	68.13	+0.01	+21 49 13.8	−1.2	−0.1	15 46.0	+0.1
14	Fn.	EI	7 34 35.43	+0.15	67.98	−0.07	+21 40 17.4	−1.0	0.0	15 44.5	−1.4
18	Wy.	EI	-- -- -----	----	-----	----	+21 0 50.0	−1.9	−0.1	15 45.8	−0.4
20	Hd.	EI	7 58 44.75	+0.10	67.60	0.00	+20 38 58.8	−1.0	−0.1	15 46.6	+0.3
21	Wy.	EI	-- -- -----	----	-----	----	+20 27 30.4	−1.8	0.0	15 43.9	−2.4
27	Fn.	WI	8 26 31.14	+0.17	66.94	−0.08	+19 11 40.3	−1.0	−0.2	15 47.5	+0.6
31	Hd.	WI	8 42 10.46	+0.19	66.68	+0.01	+18 14 41.8	−0.4	0.0	15 46.9	−0.4
Aug. 1	Fn.	WI	8 46 3.66	+0.09	66.50	−0.08	+17 59 41.8	−0.1	−0.2	15 46.4	−1.0
8	Fn.	EI	9 12 59.47	+0.05	65.96	−0.02	+16 6 43.7	−1.7	−0.1	15 48.7	+0.3
15	Fn.	EI	-- -- -----	----	-----	----	+14 1 10.8	−1.3	−0.1	15 47.9	−1.7
17	Fn.	EI	9 46 54.57	+0.09	65.20	−0.07	+13 23 13.1	−1.5	−0.1	15 50.8	+0.8
18	Wy.	EI	9 50 38.06	+0.11	65.23	+0.03	+13 3 56.1	−0.3	−0.3	15 49.8	−0.4
21	Wy.	EI	10 1 45.63	+0.09	64.88	−0.11	+12 4 47.2	−0.6	−0.3	15 48.6	−2.1
22	Fn.	EI	10 5 27.26	+0.10	64.88	−0.04	+11 44 39.3	−2.0	−0.2	15 51.4	+0.5
24	Wy.	WI	10 12 49.35	+0.25	64.84	+0.05	+11 3 54.4	−0.6	−0.3	15 50.8	−0.5
25	Fn.	WI	10 16 29.59	+0.13	64.64	−0.09	+10 43 14.6	−1.1	−0.2	15 50.2	−1.3
28	Wy.	WI	10 27 28.37	+0.18	64.47	−0.09	-- -- ----	---	---	-- ----	---
29	Fn.	WI	10 31 7.19	+0.16	64.44	−0.06	+ 9 18 59.7	+0.3	−0.2	15 52.0	−0.4
Sept. 1	Fn.	WI	10 42 1.69	+0.18	64.30	−0.06	-- -- -----	---	---	-- ----	---
5	Wy.	WI	10 56 30.14	+0.22	64.20	−0.01	+ 6 46 2.7	+0.4	−0.3	15 53.5	−0.5
7	Hd.	WI	11 3 42.70	+0.12	64.22	+0.07	+ 6 1 15.6	−1.0	−0.4	15 54.9	+0.4
8	Wy.	WI	11 7 18.82	+0.22	64.04	−0.08	+ 5 38 44.4	−0.4	−0.3	15 54.2	−0.6
14	Hd.	EI	11 28 51.69	0.00	63.97	−0.05	+ 3 21 45.4	−1.2	−0.1	15 55.2	−1.1
18	Wy.	EI	11 43 12.68	+0.13	63.92	−0.09	+ 1 49 7.1	−0.9	−0.3	15 56.4	−0.3

SUN

[No corrections have been applied for personal equation, for equinox, or for the difference day minus night]

Date	Observer	Instrument	Apparent Right Ascension of Center	Correction to Am.Eph.	Sidereal Time of Transit of Semi-diameter	Correction to Am.Eph.	Apparent Declination of Center	Correction to Am.Eph.	Red. for External Therm.	Vertical Semi-diameter	Correction to Am.Eph.
1916			h m s	s	s	s	° ′ ″	″	″	′ ″	″
Sept. 19	Hd.	EI	11 46 48.06	+0.23	64.05	+0.03	+ 1 25 50.4	−0.8	*−0.9*	15 59.2	+1.6
20	Wy.	EI	11 50 23.37	+0.21	64.04	+0.01	+ 1 2 31.5	−0.8	*−0.3*	15 56.7	−1.1
22	Hd.	EI	11 57 34.27	+0.18	64.06	+0.01	+ 0 15 47.1	−2.3	*−0.3*	15 59.8	+1.4
25	Wy.	EI	12 8 21.61	+0.16	64.06	−0.05	− 0 54 23.1	−0.8	*−0.3*	15 57.8	−1.4
26	Hd.	EI	12 11 57.71	+0.15	64.18	+0.04	− 1 17 46.6	+0.1	*−0.3*	15 59.2	−0.2
28	Wy.	WI	12 19 10.50	+0.13	64.13	−0.07	− 2 4 35.2	−1.2	*−0.2*	15 58.6	−1.4
Oct. 2	Wy.	WI	12 33 39.04	+0.16	64.32	−0.04	− 3 37 52.2	+0.3	*−0.5*	15 58.9	−2.2
6	Wy.	WI	12 48 12.23	+0.10	64.53	−0.04	− 5 10 29.6	+0.1	*−0.2*	16 2.4	+0.2
9	Hd.	WI	12 59 11.12	+0.17	64.84	+0.08	− 6 19 16.7	+0.1	*−0.2*	16 3.4	+0.3
10	Fn.	WI	13 2 51.66	+0.25	64.82	−0.01	− 6 42 2.1	+0.8	*−0.3*	16 4.6	+1.2
12	Hd.	WI	13 10 13.90	+0.14	65.02	+0.04	− 7 27 18.8	0.0	*−0.3*	16 5.0	+1.1
17	Fn.	WI	13 28 49.08	+0.07	65.30	−0.08	− 9 18 36.1	+0.1	*−0.4*	16 5.0	−0.3
23	Wy.	WI	13 51 27.77	+0.06	66.00	+0.06	−11 27 41.7	+1.0	*−0.6*	16 5.7	−1.2
24	Hd.	WI	13 55 16.75	+0.20	66.14	+0.10	−11 48 39.2	+0.8	*−0.8*	16 7.6	+0.5
26	Wy.	EI	14 2 56.55	+0.15	66.24	0.00	−12 30 2.2	−0.4	*−0.7*	16 7.8	+0.2
27	Hd.	EI	14 6 47.57	+0.15	66.40	+0.05	−12 50 24.9	+0.6	*−0.4*	16 8.0	+0.1
31	Fn.	EI	14 22 19.28	+0.23	66.75	−0.04	−14 9 56.4	−0.7	*−0.3*	16 8.4	−0.5
Nov. 2	Hd.	EI	14 30 9.58	+0.08	67.09	+0.06	−14 48 18.2	+2.2	*−0.6*	16 9.2	−0.2
3	Fn.	EI	14 34 6.08	+0.18	67.13	−0.02	−15 7 10.2	+0.9	*−0.7*	16 10.5	+0.8
7	Wy.	EI	14 49 59.77	+0.20	67.56	−0.07	−16 20 1.6	−0.8	*−0.4*	16 8.5	−2.2
9	Wy.	EI	14 58 1.53	+0.16	67.82	−0.04	−16 54 47.5	+1.1	*−0.2*	16 9.9	−1.3
10	Fn.	EI	15 2 3.69	+0.15	67.94	−0.04	−17 11 46.6	+0.3	*−0.3*	16 11.1	−0.3
16	Wy.	WI	15 26 34.70	+0.12	68.66	−0.04	−18 47 12.4	+0.3	*−0.3*	16 12.4	−0.3
20	Fn.	WI	15 43 12.56	+0.12	69.13	−0.01	−19 44 15.2	+0.7	*−0.6*	16 14.5	+1.1
27	Wy.	WI	16 12 50.20	+0.16	69.84	−0.05	−21 10 4.0	+0.4	*−0.4*	16 14.0	−0.7
28	Fn.	WI	16 17 7.16	+0.17	69.96	−0.03	−21 20 45.6	+1.0	*−0.4*	16 14.2	−0.7
Dec. 7	Fn.	EI	16 56 7.94	+0.22	70.68	−0.04	−22 38 17.9	+1.7	*−0.3*	16 15.4	−0.8
8	Hd.	EI	17 0 30.76	+0.22	70.84	+0.05	−22 44 45.0	+1.7	*−0.7*	16 16.6	+0.2
14	Fn.	EI	17 26 56.50	+0.25	70.96	−0.14	−23 13 57.6	+2.3	*−0.3*	16 15.0	−2.0
19	Hd.	WI	17 49 6.24	+0.11	71.26	+0.03	−23 25 35.8	+2.8	*−1.1*	16 17.5	+0.1
22	Hd.	WI	18 2 26.08	+0.15	71.36	+0.11	−23 27 1.0	−1.7	*−0.4*	16 18.1	+0.5
26	Fn.	WI	18 20 12.64	+0.18	71.20	−0.03	−23 22 9.1	+1.2	*−0.6*	16 18.5	+0.8
29	Hd.	WI	18 33 31.25	+0.16	71.13	−0.02	−23 13 36.2	+1.0	*−0.7*	16 17.4	−0.4
1917											
Jan. 2	Wy.	WI	18 51 12.52	+0.20	71.02	+0.02	−22 55 42.4	+0.9	*−0.6*	16 16.5	−1.4
8	Wy.	EI	19 17 32.76	+0.23	70.60	−0.05	−22 15 14.5	+1.2	*−0.4*	16 17.5	−0.3
11	Wy.	EI	19 30 36.12	+0.20	70.32	−0.09	−21 49 5.0	+0.4	*−0.7*	16 16.5	−1.2
12	Fn.	EI	19 34 56.09	+0.19	70.26	−0.07	−21 39 29.5	+1.1	*−1.0*	16 18.1	+0.5
18	Fn.	EI	20 0 42.66	+0.11	69.72	−0.06	−20 33 21.3	+1.4	*−0.7*	16 16.4	−0.8
19	Hd.	EI	20 4 58.17	+0.22	69.71	+0.03	−20 20 56.5	+1.1	*−0.9*	16 17.1	0.0
Mar. 6	Fn.	WI	23 6 54.62	+0.16	65.10	+0.02	− 5 41 13.5	+2.5	*−0.7*	16 9.4	+0.6
9	Fn.	WI	-- -- -----	----	-----	----	− 4 31 13.6	+0.4	*−0.3*	16 7.5	−0.6
12	Hd.	EI	23 29 1.97	+0.12	64.80	+0.04	− 3 20 40.8	0.0	*−0.2*	16 7.5	+0.2
15	Wy.	EI	23 40 1.50	+0.12	64.70	+0.06	− 2 9 44.2	+1.7	*−0.2*	16 6.7	+0.2
16	Hd.	EI	23 43 40.95	+0.20	64.66	+0.06	− 1 46 3.8	+0.7	*−0.6*	16 6.9	+0.7
19	Fn.	EI	23 54 37.90	+0.13	64.48	−0.05	− 0 34 56.0	0.0	*−0.5*	16 7.1	+1.7
20	Hd.	EI	23 58 16.63	+0.15	64.44	−0.07	− 0 11 12.5	+0.5	*−0.1*	16 3.8	−1.3
22	Fn.	EI	0 5 33.70	+0.15	64.47	0.00	+ 0 36 11.1	+0.4	*−0.4*	16 5.5	+1.0
26	Wy.	WI	0 20 6.86	+0.14	64.36	−0.08	+ 2 10 39.9	+1.1	*−0.1*	16 2.2	−1.2
29	Wy.	WI	0 31 1.43	+0.14	64.42	−0.02	-- -- ----	---	---	-- ----	---
30	Fn.	WI	0 34 39.62	+0.10	64.52	+0.07	+ 3 44 20.7	0.0	*−0.3*	16 3.3	+0.9

SUN

[No corrections have been applied for personal equation, for equinox, or for the difference day minus night]

Date	Observer	Instrument	Apparent Right Ascension of Center	Correction to Am. Eph.	Sidereal Time of Transit of Semi-diameter	Correction to Am. Eph.	Apparent Declination of Center	Correction to Am. Eph.	Red. for External Therm.	Vertical Semi-diameter	Correction to Am. Eph.
1917			h m s	s	s	s	° ′ ″	″	″	′ ″	″
Apr. 3	Hd.	WI	0 49 13.34	+0.18	64.54	+0.02	+ 5 16 53.7	−0.4	*−0.3*	16 2.7	+1.4
9	Hd.	WI	1 11 8.22	+0.19	64.76	+0.06	+ 7 32 47.9	−1.3	*−0.2*	16 0.3	+0.7
10	Fn.	WI	1 14 48.11	+0.16	64.82	+0.08	+ 7 55 5.0	+1.3	*−0.3*	16 0.3	+1.0
16	Fn.	WI	1 36 54.31	+0.17	65.10	+0.09	+10 5 35.2	+0.6	*−0.3*	15 58.4	+0.7
17	Wy.	WI	1 40 36.53	+0.10	65.07	0.00	+10 26 47.7	+0.6	*−0.2*	15 56.8	−0.6
19	Fn.	EI	1 48 2.33	+0.10	65.14	−0.04	+11 8 40.3	−0.7	*−0.1*	15 56.4	−0.5
23	Wy.	EI	2 2 59.05	+0.14	65.40	−0.04	+12 30 13.8	−0.5	*−0.2*	15 55.2	−0.7
24	Hd.	EI	2 6 44.29	+0.09	65.58	+0.07	+12 50 7.0	−0.6	*−0.3*	15 56.4	+0.8
27	Hd.	EI	2 18 2.97	+0.11	65.80	+0.08	+13 48 29.3	−0.4	*−0.2*	15 56.5	+1.6
30	Hd.	EI	2 29 26.08	+0.16	66.00	+0.05	+14 44 48.0	−0.6	*−0.2*	15 54.8	+0.6
May 1	Fn.	EI	2 33 14.70	+0.08	66.00	−0.03	+15 3 8.8	+2.7	*−0.1*	15 50.9	−3.0
3	Hd.	EI	2 40 53.73	+0.13	66.18	−0.01	+15 38 55.8	−0.2	*−0.2*	15 52.7	−0.8
10	Fn.	WI	3 7 57.46	+0.03	66.74	−0.02	+17 35 55.4	−0.6	*−0.1*	15 52.1	+0.2
14	Wy.	WI	3 23 38.25	+0.11	67.04	−0.04	+18 36 27.4	+0.1	*−0.2*	15 50.3	−0.7
15	Hd.	WI	3 27 34.93	+0.13	67.21	+0.05	+18 50 49.4	+0.3	*−0.2*	15 52.1	+1.3
17	Wy.	WI	-- -- -----	----	-----	----	+19 18 35.7	+0.6	*−0.1*	15 49.4	−1.0
18	Hd.	WI	3 39 28.51	+0.17	67.43	+0.03	+19 31 58.8	0.0	*−0.1*	15 50.8	+0.6
22	Fn.	WI	3 55 27.72	+0.11	67.69	−0.02	+20 22 11.9	−0.4	*−0.1*	15 49.5	0.0
June 1	Wy.	WI	4 36 0.75	+0.16	68.30	−0.07	+22 2 48.9	+0.3	*−0.1*	15 46.6	−1.4
4	Wy.	WI	4 48 18.81	+0.12	68.64	+0.11	+22 25 39.3	−0.1	*−0.2*	15 48.1	+0.5
19	Fn.	WII	5 50 27.00	+0.10	68.82	−0.12	+23 25 55.4	−0.8	*−0.1*	15 44.3	−1.8
21	Wy.	WII	5 58 46.53	+0.19	68.82	−0.12	+23 27 0.0	−0.2	*−0.2*	15 43.0	−3.0
22	Fn.	WII	6 2 56.15	+0.12	68.88	−0.06	+23 26 54.9	−0.1	*−0.2*	15 46.2	+0.3
25	Wy.	WII	6 15 24.75	+0.12	68.94	+0.03	+23 24 10.4	−0.3	*−0.1*	15 45.4	−0.4
26	Hd.	WII	6 19 34.05	+0.12	68.88	−0.01	+23 22 25.6	−0.8	*0.0*	15 45.6	−0.2
28	Wy.	EII	6 27 52.16	+0.12	68.73	−0.12	+23 17 44.3	+0.2	*−0.1*	15 43.4	−2.4
July 2	Hd.	EII	6 44 25.82	+0.18	68.75	+0.04	+23 3 25.6	−0.9	*−0.1*	15 45.8	+0.1
5	Hd.	EII	6 56 48.05	+0.12	68.52	−0.07	+22 48 29.9	+0.3	*−0.1*	15 46.6	+0.9
6	Fn.	EII	7 0 54.80	+0.09	68.46	−0.08	+22 42 42.1	−0.8	*−0.1*	15 44.8	−0.9
12	Fn.	EII	7 25 27.84	+0.14	68.11	−0.09	+21 59 50.0	−0.9	*0.0*	15 45.0	−0.8
17	Wy.	EII	7 45 43.31	+0.01	67.86	+0.01	+21 13 40.5	−1.3	*−0.1*	15 44.8	−1.2
27	Hd.	EII	8 25 34.11	+0.11	67.06	+0.02	+19 14 53.7	−0.5	*−0.1*	15 46.3	−0.6
30	Wy.	EII	8 37 19.62	+0.14	66.79	0.00	+18 32 52.3	−0.7	*−0.2*	15 46.7	−0.5
31	Fn.	EII	8 41 13.57	+0.17	66.64	−0.06	+18 18 14.6	−1.3	*−0.3*	15 47.4	0.0
Aug. 3	Fn.	WII	8 52 51.58	+0.12	66.42	−0.02	+17 32 37.8	−0.2	*−0.1*	15 47.7	−0.1
6	Hd.	WII	9 4 24.18	+0.08	66.18	0.00	+16 44 25.8	−0.4	*0.0*	15 47.5	−0.7
7	Wy.	WII	9 8 13.94	+0.14	66.04	−0.05	+16 27 48.8	−0.4	*0.0*	15 47.4	−0.9
9	Hd.	WII	9 15 51.68	+0.17	66.04	+0.12	+15 53 47.4	−0.1	*−0.2*	15 48.6	0.0
10	Wy.	WII	9 19 39.66	+0.13	65.80	−0.04	+15 36 23.5	+0.1	*−0.3*	15 48.8	+0.1
13	Fn.	WII	9 31 0.35	+0.11	65.54	−0.05	+14 42 40.7	−0.9	*+0.1*	15 47.7	−1.5
14	Hd.	WII	9 34 46.15	+0.09	65.49	−0.02	-- -- ----	---	---	-- ----	---
16	Fn.	WII	9 42 16.20	+0.10	65.26	−0.10	+13 46 52.7	+0.1	*−0.1*	15 48.9	−0.8
17	Wy.	WII	9 46 0.44	+0.10	65.29	0.00	+13 27 47.8	−1.7	*0.0*	15 49.3	−0.6
20	Fn.	WII	9 57 10.10	+0.08	64.94	−0.13	+12 29 24.8	0.0	*0.0*	15 49.6	−0.9
21	Wy.	WII	10 0 52.41	+0.15	64.96	−0.04	+12 9 32.2	−0.3	*+0.1*	15 49.2	−1.5
24	Hd.	EII	10 11 56.37	+0.20	64.90	+0.09	+11 8 47.6	−0.5	*−0.2*	15 51.1	−0.2
25	Wy.	EII	10 15 36.75	+0.17	64.80	+0.06	+10 48 11.6	−0.3	*−0.2*	15 50.4	−1.1
Sept. 4	Fn.	EII	10 52 0.08	+0.18	64.14	−0.11	+ 7 13 41.5	−0.4	*−0.4*	15 53.8	0.0
7	Hd.	EII	11 2 49.56	+0.19	64.16	+0.01	+ 6 6 48.1	+0.3	*−0.3*	15 54.3	−0.2
10	Hd.	EII	-- -- -----	----	-----	----	+ 4 58 57.4	−0.6	*−0.2*	15 55.5	+0.3

SUN

[No corrections have been applied for personal equation, for equinox, or for the difference day minus night]

Date	Observer	Instrument	Apparent Right Ascension of Center	Correction to Am. Eph.	Sidereal Time of Transit of Semi-diameter	Correction to Am. Eph.	Apparent Declination of Center	Correction to Am. Eph.	Red. for External Therm.	Vertical Semi-diameter	Correction to Am. Eph.
1917			h m s	s	s	s	° ′ ″	″	″	′ ″	″
Sept. 11	Fn.	EII	11 17 13.14	+0.20	64.08	+0.02	+ 4 36 9.8	−0.6	*−0.6*	15 56.3	+0.9
13	Hd.	EII	11 24 24.20	+0.18	64.08	+0.05	+ 3 50 19.4	−1.8	*−0.5*	15 56.9	+1.0
17	Hd.	EII	11 38 45.69	+0.19	64.08	+0.07	+ 2 17 55.0	−0.9	*−0.4*	15 57.6	+0.6
18	Wy.	EII	11 42 20.99	+0.17	64.00	−0.01	+ 1 54 40.4	−1.4	*−0.4*	15 56.9	−0.3
20	Hd.	WII	11 49 31.65	+0.13	64.08	+0.06	+ 1 8 7.2	+0.4	*−0.2*	15 57.4	−0.4
21	Wy.	WII	11 53 7.12	+0.19	63.92	−0.11	+ 0 44 46.3	−0.3	*−0.3*	15 56.4	−1.6
27	Fn.	WII	12 14 41.67	+0.13	64.06	−0.11	− 1 35 30.4	0.0	*−0.3*	15 58.7	−1.0
Oct. 2	Fn.	WII	12 32 45.60	+0.11	64.42	+0.07	− 3 32 9.3	−0.3	*−0.5*	16 2.0	+0.9
4	Hd.	WII	12 40 1.20	+0.10	64.52	+0.07	− 4 18 34.2	+0.4	*−0.4*	16 2.4	+0.8
5	Fn.	WII	12 43 39.54	+0.11	64.48	−0.02	− 4 41 42.7	+0.5	*−0.3*	16 2.1	+0.2
8	Hd.	EII	12 54 37.06	+0.22	64.82	+0.14	− 5 50 47.7	−0.3	*−0.4*	16 3.6	+0.9
11	Hd.	EII	13 5 38.43	+0.19	64.92	+0.04	− 6 59 10.9	+0.6	*−0.2*	16 3.9	+0.4
15	Fn.	EII	13 20 27.31	+0.15	65.06	−0.13	− 8 29 3.9	−0.4	*−0.3*	16 3.4	−1.2
16	Wy.	EII	13 24 10.89	+0.14	65.26	−0.01	− 8 51 14.7	−0.2	*−0.3*	16 4.9	0.0
22	Hd.	EII	13 46 45.10	+0.19	65.92	+0.10	−11 1 27.0	+0.3	*−0.4*	16 7.4	+0.9
23	Wy.	EII	13 50 32.95	+0.15	65.89	−0.03	−11 22 36.8	−0.1	*−0.3*	16 6.0	−0.8
25	Hd.	EII	13 58 10.88	+0.22	66.20	+0.08	−12 4 23.7	+0.4	*−0.6*	16 9.1	+1.7
26	Fn.	EII	14 2 0.78	+0.16	66.18	−0.05	−12 25 1.3	0.0	*−0.3*	16 7.2	−0.4
Nov. 1	Hd.	EII	14 25 16.18	+0.15	66.94	+0.05	−14 24 28.9	0.0	*−0.4*	16 9.8	+0.6
2	Fn.	EII	14 29 11.59	+0.24	66.95	−0.05	−14 43 36.9	+0.5	*−0.8*	16 9.9	+0.5
12	Wy.	WII	15 9 11.05	+0.10	68.15	−0.04	−17 40 50.4	+0.6	*−0.2*	16 10.9	−0.8
15	Wy.	WII	15 21 27.70	+0.10	68.43	−0.11	−18 28 20.9	+0.7	*−0.3*	16 11.1	−1.3
20	Fn.	WII	15 42 12.27	+0.19	69.08	−0.04	−19 40 55.9	+0.1	*−0.2*	16 12.8	−0.6
22	Hd.	WII	-- -- -----	----	-----	----	−20 7 29.6	+0.3	*−0.3*	16 12.6	−1.2
23	Fn.	WII	-- -- -----	----	-----	----	−20 20 12.7	+1.0	*−0.7*	16 13.3	−0.7
26	Hd.	WII	-- -- -----	----	-----	----	−20 56 7.3	+1.3	*−0.6*	16 14.8	+0.2
27	Wy.	WII	16 11 47.53	+0.11	69.85	−0.01	−21 7 19.8	+0.5	*−0.4*	16 12.2	−2.5
Dec. 6	Fn.	WII	16 50 40.91	+0.16	70.56	−0.08	−22 29 36.3	+1.5	*−0.3*	16 14.8	−1.3
10	Fn.	WII	17 8 13.22	+0.27	70.91	+0.02	−22 54 58.1	+0.7	*−0.9*	16 17.5	+1.0
20	Hd.	EII	17 52 28.69	+0.20	71.36	+0.12	−23 26 17.5	+1.2	*−0.6*	16 17.6	+0.2
21	Wy.	EII	17 56 55.30	+0.27	71.25	0.00	−23 26 50.6	+1.8	*−1.0*	16 16.4	−1.1
28	Wy.	EII	-- -- -----	- -	-----	----	−23 17 35.8	+2.2	*−0.8*	16 16.8	−1.0
1918											
Jan. 8	Hd.	EII	19 16 28.47	+0.21	70.71	+0.05	−22 17 11.1	−0.2	*−0.7*	16 17.7	−0.1
10	Fn.	EII	19 25 11.97	+0.29	70.46	−0.04	−22 0 20.2	+1.3	*−0.6*	16 17.2	−0.5
17	Fn.	EII	19 55 24.91	+0.22	69.96	+0.06	−20 48 9.7	+0.8	*−0.6*	16 18.6	+1.3
18	Wy.	EII	19 59 41.10	+0.14	69.76	−0.04	−20 36 14.1	+0.5	*−0.6*	16 16.7	−0.5
21	Fn.	WII	20 12 25.47	+0.24	69.51	+0.01	−19 58 7.3	+1.0	*−0.9*	16 17.2	+0.2
24	Fn.	WII	20 25 2.65	+0.17	69.12	−0.06	−19 16 41.9	−0.2	*−0.3*	16 15.3	−1.4
29	Wy.	WII	20 45 48.65	+0.14	68.58	−0.04	−18 0 37.0	+0.4	*−0.5*	16 14.4	−1.7
Feb. 4	Hd.	WII	21 10 17.19	+0.15	68.04	+0.11	−16 18 44.7	+0.7	*−0.8*	16 16.6	+1.4
7	Hd.	WII	21 22 20.53	+0.07	67.78	+0.19	−15 23 52.1	+2.1	*−0.5*	16 15.6	+1.0
8	Wy.	WII	21 26 20.11	+0.08	67.55	+0.08	−15 5 4.0	+1.1	*−0.7*	16 14.1	−0.4
11	Wy.	WII	21 38 14.13	+0.12	67.08	−0.06	−14 7 6.9	+0.8	*−0.5*	16 12.3	−1.6
12	Fn.	WII	21 42 10.58	+0.13	66.96	−0.07	−13 47 19.2	+0.8	*−0.4*	16 12.8	−0.9
14	Wy.	WII	21 50 1.19	+0.17	66.80	−0.01	−13 7 3.3	+1.2	*−0.4*	16 12.2	−1.2
15	Fn.	WII	21 53 55.29	+0.13	66.70	−0.01	−12 46 36.2	+1.3	*−0.2*	16 13.0	−0.2
18	Fn.	EII	22 5 33.30	+0.15	66.18	−0.22	−11 44 4.1	+0.9	*−0.4*	16 12.4	−0.2
21	Fn.	EII	22 17 4.87	+0.13	66.07	−0.04	−10 39 53.2	+0.5	*−1.0*	16 13.9	+1.9
27	Hd.	EII	22 39 50.71	+0.16	65.63	+0.05	− 8 27 16.4	+0.6	*−0.2*	16 12.1	+1.5
28	Wy.	EII	22 43 36.25	+0.10	65.68	+0.18	− 8 4 39.7	+2.8	*−0.6*	16 12.6	+2.2

SUN

[No corrections have been applied for personal equation, for equinox, or for the difference day minus night]

Date	Observer	Instrument	Apparent Right Ascension of Center	Correction to Am. Eph.	Sidereal Time of Transit of Semi-diameter	Correction to Am. Eph.	Apparent Declination of Center	Correction to Am. Eph.	Red. for External Therm.	Vertical Semi-diameter	Correction to Am. Eph.
1918			h m s	s	s	s	° ′ ″	″	″	′ ″	″
Mar. 5	Hd.	EII	23 2 16.91	+0.20	65.26	+0.11	− 6 10 9.4	+1.4	*−0.3*	16 10.9	+1.8
7	Fn.	EII	23 9 41.97	+0.15	64.98	−0.05	− 5 23 42.3	+0.9	*−0.4*	16 8.5	−0.1
15	Fn.	WII	23 39 8.40	+0.09	64.56	−0.08	− 2 15 28.5	−0.1	*−0.3*	16 6.5	0.0
18	Wy.	WII	23 50 6.29	+0.15	64.60	+0.05	− 1 4 21.9	+0.5	*−0.3*	16 6.2	+0.5
19	Hd.	WII	23 53 45.11	+0.12	64.52	0.00	− 0 40 39.5	+0.3	*−0.2*	16 3.8	−1.6
22	Fn.	WII	0 4 40.64	+0.08	64.44	−0.03	+ 0 30 25.3	+0.5	*−0.2*	16 4.0	−0.6
25	Fn.	WII	0 15 35.19	+0.04	64.43	−0.01	+ 1 41 18.0	+0.5	*−0.3*	16 3.9	+0.1
28	Fn.	WII	0 26 29.42	+0.07	64.44	0.00	+ 2 51 49.8	+0.8	*−0.2*	16 3.6	+0.6
29	Wy.	WII	0 30 7.55	+0.11	64.59	+0.14	+ 3 15 12.7	−0.5	*−0.5*	16 2.8	+0.1
Apr. 2	Fn.	EII	0 44 40.58	+0.07	64.36	−0.13	+ 4 48 9.2	−0.8	*−0.3*	16 0.2	−1.4
5	Fn.	EII	0 55 36.83	+0.15	64.53	−0.03	+ 5 57 0.8	−0.1	*−0.4*	16 1.9	+1.1
15	Fn.	EII	1 32 19.10	+0.17	64.91	−0.04	+ 9 38 59.7	−0.7	*−0.2*	15 57.8	−0.2
16	Wy.	EII	1 36 0.85	+0.08	64.92	−0.08	+10 0 24.8	−0.1	*−0.1*	15 56.5	−1.3
19	Fn.	EII	1 47 8.53	+0.09	65.16	−0.01	+11 3 36.8	−0.5	*−0.3*	15 56.2	−0.8
23	Fn.	EII	2 2 4.27	+0.07	65.35	−0.07	+12 25 18.9	−0.1	*−0.1*	15 54.7	−1.3
24	Fn.	EII	2 5 49.40	+0.17	65.49	0.00	+12 45 13.1	−1.4	*−0.2*	15 57.2	+1.4
29	Fn.	EII	2 24 41.73	+0.12	65.78	−0.08	+14 21 37.2	−0.8	*−0.2*	15 54.2	−0.3
May 2	Fn.	EII	2 36 7.46	+0.14	66.06	−0.03	+15 16 41.9	+0.4	*−0.3*	15 53.8	0.0
6	Fn.	EII	2 51 29.74	+0.24	66.42	+0.01	+16 26 33.9	0.0	*−0.2*	15 52.6	−0.2
8	Fn.	EII	2 59 14.25	+0.17	66.55	−0.02	+16 59 53.3	−0.1	*−0.2*	15 53.3	+0.9
9	Fn.	EII	3 3 7.34	+0.10	66.56	−0.09	+17 16 7.4	−0.6	*−0.1*	15 50.3	−1.8
15	Fn.	WII	3 26 38.36	+0.12	66.99	−0.16	+18 47 21.2	+0.3	*−0.2*	15 49.3	−1.6
20	Fn.	WII	-- -- -----	----	-----	----	+19 54 40.5	−0.1	*−0.1*	15 48.4	−1.6
21	Fn.	WII	-- -- -----	----	-----	----	+20 7 8.8	+0.3	*0.0*	15 49.1	−0.7
28	Fn.	WII	-- -- -----	----	-----	----	+21 24 34.2	+0.5	*−0.1*	15 47.0	−1.6
29	Fn.	WII	-- -- -----	----	-----	----	+21 34 9.8	−0.6	*−0.2*	15 47.9	−0.6
June 19	Wy.	WII	5 49 27.54	+0.11	68.98	+0.04	+23 25 36.6	−1.0	*−0.1*	15 46.2	0.0
22	Wy.	WII	6 1 56.21	+0.09	68.88	−0.06	-- -- ----	---	---	-- ----	---
24	Wy.	WII	6 10 15.19	+0.15	68.90	−0.03	+23 25 42.1	−0.4	*−0.1*	15 44.8	−1.2
27	Wy.	WII	6 22 42.93	+0.21	68.86	−0.02	+23 20 49.6	+1.2	*−0.1*	15 45.9	+0.1
28	Hd.	WII	6 26 51.81	+0.12	68.82	−0.02	+23 18 20.6	−0.4	*−0.1*	15 44.6	−1.2
July 1	Wy.	WII	6 39 17.71	+0.15	68.82	+0.06	+23 8 31.1	−0.5	*−0.1*	15 45.2	−0.5
2	Hd.	WII	6 43 25.96	+0.20	68.90	+0.18	+23 4 27.2	+0.9	*−0.1*	15 46.5	+0.8
9	Hd.	EII	7 12 15.12	+0.20	68.50	+0.11	+22 24 36.8	−0.9	*−0.1*	15 46.3	+0.6
11	Wy.	EII	7 20 25.70	+0.08	68.20	−0.08	+22 9 42.6	−1.3	*−0.1*	15 45.0	−0.8
12	Hd.	EII	7 24 30.43	+0.14	68.26	+0.04	+22 1 41.2	−1.4	*−0.1*	15 45.3	−0.5
15	Wy.	EII	7 36 41.59	+0.15	68.00	−0.02	+21 35 22.4	−1.3	*−0.2*	15 44.8	−1.2
16	Hd.	EII	7 40 44.24	+0.09	68.00	+0.05	+21 25 52.4	−0.7	*−0.1*	15 45.3	−0.7
18	Wy.	EII	7 48 48.09	+0.12	67.74	−0.05	+21 5 45.2	−1.5	*−0.2*	15 44.4	−1.8
22	Wy.	EII	8 4 49.04	+0.10	67.52	+0.04	+20 21 18.8	−0.5	*−0.3*	15 45.3	−1.2
23	Fn.	EII	8 8 47.89	+0.14	67.36	−0.04	+20 9 19.8	−1.0	*−0.1*	15 46.1	−0.5
25	Fn.	EII	8 16 43.73	+0.09	67.16	−0.08	+19 44 22.3	−1.1	*−0.1*	15 45.9	−0.8
Aug. 1	Fn.	WII	8 44 11.04	+0.12	66.54	−0.09	+18 6 53.9	+0.1	*−0.2*	15 46.9	−0.5
2	Hd.	WII	8 48 3.99	+0.10	66.58	+0.03	+17 51 43.5	−1.0	*−0.1*	15 47.1	−0.5
5	Wy.	WII	8 59 39.46	+0.19	66.30	+0.02	+17 4 32.7	+0.1	*−0.1*	15 47.3	−0.7
8	Wy.	WII	9 11 9.48	+0.21	66.04	+0.01	+16 14 51.0	−0.3	*−0.1*	15 47.8	−0.6
12	Fn.	WII	9 26 21.12	+0.12	65.70	+0.01	+15 4 59.3	+0.4	*−0.1*	15 50.2	+1.2
13	Wy.	WII	9 30 7.66	+0.19	65.62	+0.01	+14 46 52.9	−1.1	*−0.2*	15 48.4	−0.8
15	Fn.	WII	9 37 38.82	+0.10	65.50	+0.05	+14 10 2.5	0.0	*−0.4*	15 49.8	+0.2
16	Hd.	WII	9 41 23.72	+0.21	65.52	+0.14	+13 51 16.4	−0.1	*−0.3*	15 51.7	+2.0

MERCURY

[No corrections have been applied for personal equation, for equinox, or for the difference day minus night]

Date	Observer	Instrument	Apparent Right Ascension of Center	Correction to Am. Eph.	Apparent Declination of Center	Correction to Am. Eph.	Red. for External Therm.
1913			h m s	s	° ′ ″	″	″
Apr. 30	Hd.	EII	0 58 8.48	+0.16	+ 3 2 12.4	+0.7	−0.1
May 1	Fn.	EII	1 2 52.92	+0.16	+ 3 31 24.9	−1.5	0.0
2	R.	EII	1 7 45.38	+0.15	+ 4 1 56.6	−0.3*	0.0
18	Hd.	WII	2 44 33.29	+0.22	+14 14 52.3	+0.6	−0.3
June 6	Fn.	WII	5 21 19.39	+0.21	+24 30 14.4	−0.4	0.0
18	R.	EII	7 6 24.38	+0.16	+24 34 36.0	−0.7	0.0
Nov. 5	Hd.	EI	16 13 21.40	+0.15	−24 3 10.3	+0.3	−0.4
7	R.	EI	16 19 26.66	+0.19	−24 12 58.3	+0.4	−0.4
Dec. 5	Hd.	EI	15 28 47.93	+0.20	−16 13 13.5	−0.2	−0.1
8	R.	EI	15 37 46.15	+0.16	−16 56 58.4	−0.6	−0.4
11	R.	EI	15 49 50.77	+0.17	−17 54 35.4	+0.3	−0.4
12	Hd.	EI	15 54 23.91	+0.20	−18 15 27.6	+1.4	0.0
14	Fn.	WI	16 4 7.77	+0.12	−18 58 22.7	−0.2	−0.2
17	Fn.	WI	16 20 0.08	+0.12	−20 2 47.5	+2.6	−0.3
18	R.	WI	16 25 34.19	+0.22	−20 23 46.7	+0.2	−0.4
26	Wy.	WI	17 13 37.25	+0.16	-- -- ----	---	---
1914							
Feb. 9	Fn.	EI	22 16 43.40	+0.14	−12 3 26.3	+1.1	−0.3
21	Hd.	WI	23 22 45.72	+0.12	− 2 49 45.7	+1.0	−0.7
Apr. 9	Wy.	WI	23 35 57.16	+0.18	-- -- ----	---	---
17	Hd.	EI	0 14 18.72	+0.18	− 1 21 7.7	+1.1	0.0
29	Wy.	WI	1 24 28.35	+0.15	+ 6 30 13.4	−1.1	0.0
May 1	Fn.	WI	1 37 44.77	+0.16	+ 8 0 55.5	0.0	−0.2
3	Wy.	WI	1 51 32.71	+0.21	+ 9 33 56.4	−0.5	0.0
6	Wy.	WI	2 13 17.83	+0.10	+11 56 28.3	0.0	−0.2
8	Fn.	WI	2 28 32.81	+0.14	+13 32 17.3	−0.5	−0.1
11	Wy.	WI	2 52 34.55	+0.19	+15 54 36.7	−0.2	−0.1
13	Hd.	WI	3 9 20.70	+0.12	+17 26 38.4	+1.0	−0.2
14	Wy.	WI	3 17 56.38	+0.15	+18 11 11.8	0.0	−0.2
19	Wy.	WI	3 53 26.76	+0.29	+20 55 7.6	+1.4	−0.2
20	Hd.	WI	4 2 31.20	+0.13	+21 31 28.8	+0.7	−0.1
21	Fn.	WI	4 11 38.29	+0.20	+22 5 36.6	−0.4	0.0
23	Hd.	EI	4 29 54.06	+0.12	+23 6 39.4	−2.0	−0.1
26	Wy.	EI	4 57 1.65	+0.11	+24 18 43.5	−0.8	0.0
June 2	Fn.	EI	5 56 15.64	+0.15	+25 33 55.4	−0.9	−0.1
3	Wy.	EI	6 4 2.25	+0.16	+25 34 54.4	−0.3	0.0
5	Fn.	EI	6 18 58.61	+0.15	+25 30 30.2	−1.5	0.0
6	Wy.	EI	6 26 7.46	+0.02	+25 25 24.3	+0.3	−0.1
10	Hd.	EI	6 52 28.46	+0.07	+24 48 4.7	−0.8	−0.1
11	Fn.	EI	6 58 28.66	−0.01	+24 35 8.1	−0.8	−0.1
13	Wy.	EI	7 9 45.90	+0.05	+24 5 43.1	−0.5	−0.1
16	Hd.	EI	-- -- ----	----	+23 14 22.7	−1.5	−0.1
17	Wy.	EI	7 29 21.01	+0.13	+22 55 47.7	−0.9	0.0
20	Wy.	WI	7 41 18.19	+0.04	+21 57 1.8	−0.7	−0.2
24	Wy.	WI	7 53 22.08	+0.01	+20 35 35.4	+0.1	−0.1
Aug. 6	Hd.	EI	7 48 9.68	+0.24	+20 3 23.4	−0.7	0.0
7	Wy.	EI	7 53 20.65	+0.17	+20 5 7.7	−1.4	−0.2
10	Wy.	WI	8 11 6.45	+0.13	+19 57 20.6	+0.1	−0.1
12	Hd.	WI	8 24 33.42	+0.16	+19 39 49.3	−1.1	−0.1
16	Fn.	WI	8 54 14.24	+0.24	+18 32 25.1	−0.9	−0.1
17	Wy.	WI	9 2 2.41	+0.22	+18 8 45.7	−3.1	−0.1

* North limb of planet observed in declination.

MERCURY

[No corrections have been applied for personal equation, for equinox, or for the difference day minus night]

Date	Observer	Instrument	Apparent Right Ascension of Center	Correction to Am. Eph.	Apparent Declination of Center	Correction to Am. Eph.	Red. for External Therm.
			h m s	s	° ′ ″	″	″
1914							
Aug. 19	Fn.	WI	9 17 52.38	+0.25	+17 13 53.6	−2.4	−0.1
21	An.	WI	9 33 48.38	+0.12	+16 9 43.4	−0.9	−0.1
Sept. 1	An.	WI	10 49 43.55	+0.02	+ 9 15 13.6	−0.4	−0.1
2	Wy.	WI	10 56 46.06	+0.13	+ 8 28 56.7	+0.1	−0.1
5	Wy.	WI	11 17 15.09	+0.10	-- -- ----	---	---
10	An.	EI	11 49 27.26	+0.19	+ 2 12 13.8	−1.9	−0.2
14	Fn.	EI	12 13 44.08	+0.19	− 0 53 35.3	−1.6	−0.1
15	An.	EI	12 19 37.71	+0.10	− 1 39 17.0	−2.2	−0.2
21	Hd.	EI	12 53 46.43	+0.12	− 6 4 24.3	−0.5	−0.2
22	Wy.	EI	12 59 17.15	+0.24	− 6 46 50.6	−0.3	−0.3
23	An.	EI	13 4 45.04	+0.32	− 7 28 43.7	−1.0	−0.3
26	An.	EI	13 20 52.31	+0.08	− 9 30 41.7	−1.0	−0.2
27	Wy.	WI	13 26 9.68	+0.11	−10 10 2.9	−0.8	−0.3
28	Hd.	WI	13 31 24.40	+0.04	−10 48 42.7	−0.6	−0.3
29	Wy.	WI	-- -- -----	----	−11 26 38.6	+0.5	−0.4
30	An.	WI	13 41 46.27	+0.06	−12 3 51.8	−0.3	−0.1
Oct. 1	Hd.	WI	13 46 53.31	+0.14	−12 40 17.9	−0.2	−0.6
2	Wy.	WI	13 51 57.43	+0.08	−13 15 57.1	−1.2	−0.3
5	Wy.	WI	14 6 51.98	+0.15	−14 57 44.0	+0.5	−0.5
10	An.	WI	14 30 27.42	+0.16	−17 28 15.2	−0.7	−0.3
19	Hd.	EI	15 5 43.43	+0.09	−20 39 56.7	−0.6	−0.3
21	An.	EI	15 11 19.12	+0.03	−21 3 56.1	−1.0	−0.6
22	Hd.	EI	15 13 39.26	+0.12	−21 12 38.6	−0.6	−0.3
Nov. 17	Fn.	EI	14 23 7.69	+0.14	−11 44 22.7	+0.8	−0.3
19	Wy.	EI	14 27 7.55	+0.18	−11 59 23.7	−1.1	−0.1
20	Fn.	EI	14 29 51.93	+0.15	−12 12 29.5	+0.6	−0.2
22	Fn.	EI	14 36 34.94	+0.18	−12 47 41.3	−0.8	−0.1
23	Hd.	EI	14 40 28.14	+0.20	−13 8 50.4	+0.7	−0.3
27	Wy.	EI	14 58 40.26	+0.13	−14 48 52.0	+0.9	−0.6
Dec. 15	An.	WI	16 45 32.92	+0.15	−22 23 12.2	−0.4	−0.6
17	Hd.	WI	16 58 41.67	+0.24	−22 58 26.8	+0.4	−0.3
1915							
Jan. 1	An.	EI	18 41 48.51	+0.06	-- -- ----	---	---
13	An.	WI	20 0 20.42	+0.20	−22 43 19.1	−1.2	−0.1
15	Fn.	WI	-- -- -----	----	−22 0 32.4	+0.8	−0.1
16	An.	WI	20 21 42.66	+0.29	−21 36 47.5	+1.1	−0.7
26	An.	EI	21 30 9.40	+0.23	−16 17 37.3	+0.3	−0.3
Mar. 28	Fn.	EI	22 56 14.41	+0.20	− 9 4 59.6	−1.3	−0.3
29	Wy.	EI	23 1 22.29	+0.23	− 8 38 4.7	−0.1	−0.3
30	An.	EI	23 6 35.20	+0.15	− 8 9 54.2	−2.0	−0.1
31	Fn.	EI	-- -- -----	----	− 7 40 22.8	−0.3	−0.1
Apr. 1	Wy.	EI	23 17 15.93	+0.17	− 7 9 36.8	−0.2	−0.4
7	Hd.	EI	23 51 9.19	+0.17	− 3 39 38.4	−1.0	−0.1
13	An.	WI	0 27 49.86	+0.20	+ 0 30 22.5	+0.7	−0.3
14	Hd.	WI	0 34 14.27	+0.17	+ 1 15 31.0	−0.8	−0.1
15	Fn.	WI	0 40 44.21	+0.18	+ 2 1 37.8	+1.1	−0.1
20	An.	WI	-- -- --	----	+ 6 4 14.5	−0.4	−0.2
26	Wy.	EI	1 59 13.79	+0.25	+11 13 38.7	+1.4	−0.1
27	Hd.	EI	2 7 4.28	+0.14	+12 5 45.2	+0.2	−0.1
May 4	Wy.	EI	2 56 26.06	+0.13	+17 7 42.6	−0.8	−0.2
10	Hd.	EI	3 47 54.17	+0.05	+21 20 15.8	+1.4	−0.1

MERCURY

[No corrections have been applied for personal equation, for equinox, or for the difference day minus night]

Date	Observer	Instrument	Apparent Right Ascension of Center	Correction to Am. Eph.	Apparent Declination of Center	Correction to Am. Eph.	Red. for External Therm.
1915			h m s	s	° ′ ″	″	″
May 14	Fn.	WI	4 21 24.36	+0.05	+23 23 6.8	+0.4	−0.1
31	Wy.	WI	6 10 50.38	+0.08	+25 11 36.7	−0.2	0.0
June 8	Hd.	EI	6 35 26.42	−0.01	+23 33 27.9	−1.9	−0.1
10	Fn.	EI	6 38 22.62	+0.02	+23 2 31.3	−1.7	−0.1
July 13	An.	WI	6 7 56.62	+0.15	+19 57 59.0	−0.3	0.0
20	An.	EI	6 33 17.00	+0.11	+21 19 43.7	−1.2	−0.1
21	Fn.	EI	-- -- -----	----	+21 29 41.5	−0.6	−0.1
23	An.	EI	6 49 42.46	+0.19	+21 46 25.1	−0.3	−0.1
26	Hd.	EI	7 9 11.13	+0.22	+22 0 33.7	−0.3	0.0
29	Hd.	EI	7 31 18.55	+0.22	+21 57 0.7	−1.1	0.0
Aug. 2	An.	EI	8 3 49.11	+0.11	+21 17 59.3	−0.3	0.0
3	Hd.	EI	8 12 17.24	+0.18	+21 1 34.6	−1.1	−0.1
5	An.	EI	8 29 24.35	+0.15	+20 20 50.4	−1.2	−0.1
19	Fn.	WI	10 14 45.94	+0.20	+12 40 5.9	−0.4	−0.1
24	Hd.	WI	10 49 42.11	+0.15	+ 8 55 35.8	−1.3	−0.1
25	Wy.	WI	10 56 18.80	+0.07	+ 8 9 46.6	−0.7	−0.2
26	Hd.	WI	-- -- -----	----	+ 7 23 47.8	−2.0	−0.2
31	Wy.	WI	11 33 42.41	+0.10	+ 3 34 10.8	−1.0	−0.2
Sept. 9	Wy.	WI	12 23 46.78	+0.10	− 3 4 8.2	−1.2	−0.2
11	Wy.	EI	12 34 5.50	+0.03	− 4 27 55.0	−1.6	−0.2
13	Hd.	EI	12 44 7.97	+0.19	− 5 49 24.6	−1.3	−0.2
14	Wy.	EI	12 49 2.81	+0.06	− 6 29 13.1	−0.8	−0.1
15	Hd.	EI	12 53 53.70	+0.15	− 7 8 22.4	−1.1	−0.1
16	Wy.	EI	12 58 40.16	+0.08	− 7 46 49.4	−1.0	−0.2
17	Hd.	EI	13 3 22.40	+0.16	-- -- ----	---	---
21	Wy.	EI	13 21 23.74	+0.09	−10 47 14.8	−0.3	−0.3
22	Hd.	EI	13 25 41.14	+0.17	−11 20 42.1	−2.2	−0.2
23	Hd.	EI	13 29 52.65	+0.23	−11 53 6.1	−0.8	−0.2
24	Wy.	EI	13 33 57.72	+0.15	−12 24 26.9	+0.2	−0.4
Oct. 4	Wy.	WI	14 6 33.76	+0.11	−16 22 33.6	−1.5	0.0
12	Wy.	WI	14 12 59.32	+0.05	−16 52 57.1	−1.1	−0.4
29	Wy.	EI	13 20 56.36	+0.10	− 7 3 55.5	−0.6	−0.2
Nov. 2	Hd.	EI	13 24 52.64	+0.29	− 6 45 19.9	+0.4	−0.2
4	Wy.	EI	13 30 11.43	+0.10	− 7 6 21.3	−0.4	−0.1
5	Hd.	EI	13 33 31.28	+0.15	− 7 22 54.7	−0.2	−0.2
10	Wy.	WI	13 55 4.58	+0.20	− 9 28 7.8	−2.4	−0.2
12	Fn.	WI	14 5 18.21	+0.12	−10 30 43.0	−0.9	−0.2
16	Wy.	WI	14 27 24.23	+0.24	−12 44 42.2	−0.2	−0.1
17	Hd.	WI	14 33 10.64	+0.20	−13 18 51.0	+0.4	−0.4
21	Fn.	EI	14 56 58.32	+0.21	−15 33 50.9	−0.4	−0.4
23	Hd.	EI	15 9 12.28	+0.19	−16 38 57.4	−0.5	−0.2
25	Wy.	EI	15 21 37.27	+0.22	−17 41 39.7	−1.0	−0.2
28	Hd.	EI	15 40 33.11	+0.23	−19 10 12.2	−1.1	−0.3
29	Fn.	EI	15 46 56.27	+0.18	−19 38 3.2	−0.5	−0.4
Dec. 1	Wy.	EI	15 59 49.20	+0.08	−20 31 3.1	−0.3	−0.2
3	Hd.	EI	16 12 50.94	+0.20	-- -- ----	---	---
5	Fn.	WI	16 26 1.03	+0.25	−22 5 14.3	+0.1	−0.3
6	Wy.	WI	16 32 39.02	+0.13	−22 26 13.2	−4.1	−0.4
9	Wy.	WI	16 52 45.44	+0.08	−23 22 6.6	+1.2	−0.4
22	Wy.	WI	18 15 52.40	+0.27	−25 13 0.7	−0.4	−0.2
30	Wy.	EI	19 12 42.14	+0.03	−24 33 10.8	+0.1	−0.3

MERCURY

[No corrections have been applied for personal equation, for equinox, or for the difference day minus night]

Date	Observer	Instrument	Apparent Right Ascension of Center	Correction to Am. Eph.	Apparent Declination of Center	Correction to Am. Eph.	Red. for External Therm.
			h m s	s	° ′ ″	″	″
1916							
Jan. 3	Hd.	EI	19 40 56.91	+0.17	−23 36 0.8	+0.4	*−0.3*
21	Hd.	EI	21 25 50.69	+0.17	−15 8 42.7	+1.0	*−0.4*
24	Hd.	EI	21 33 2.53	+0.19	−13 43 38.2	+0.8	*−0.4*
Feb. 20	Fn.	WI	20 36 13.56	+0.32	−17 5 54.9	−1.0	*−0.3*
Mar. 10	Wy.	WI	21 52 53.79	+0.24	−14 33 48.7	+1.1	*−0.7*
June 22	Hd.	WI	4 44 2.61	+0.15	+18 9 28.8	−0.6	*0.0*
July 2	Wy.	WI	-- -- -----	----	+20 31 35.0	−1.2	*−0.1*
5	Wy.	EI	5 33 33.87	+0.20	+21 22 18.7	−0.9	*−0.1*
6	Fn.	EI	5 39 33.01	+0.22	+21 38 33.2	−0.6	*−0.1*
12	Hd.	EI	6 21 37.67	+0.15	+22 55 32.2	−1.3	*0.0*
17	Wy.	EI	7 3 31.76	+0.14	+23 11 18.7	−1.7	*−0.1*
Aug. 7	Wy.	EI	9 53 28.21	+0.18	+14 30 47.8	−1.4	*−0.1*
17	Fn.	EI	10 58 28.85	+0.23	+ 7 18 19.1	−1.9	*−0.1*
18	Wy.	EI	11 4 17.13	+0.07	+ 6 34 27.9	−0.9	*−0.3*
22	Fn.	EI	11 26 25.81	+0.08	+ 3 40 40.7	−0.2	*−0.2*
24	Wy.	WI	11 36 53.17	+0.12	+ 2 15 23.4	−1.5	*−0.2*
Sept. 5	Wy.	WI	12 31 15.26	+0.21	− 5 31 48.4	−2.4	*−0.1*
7	Hd.	WI	12 38 45.97	+0.04	− 6 38 39.7	−0.6	*−0.3*
8	Wy.	WI	12 42 19.36	+0.11	− 7 10 27.8	+0.7	*−0.3*
11	Hd.	WI	12 52 4.40	+0.16	− 8 38 29.3	−1.2	*−0.3*
19	Hd.	EI	13 9 3.67	+0.10	−11 18 21.3	−0.8	*−0.3*
20	Wy.	EI	13 9 57.18	+0.10	−11 27 56.5	−1.7	*−0.1*
22	Hd.	EI	13 10 41.31	+0.07	−11 37 53.9	−1.2	*−0.2*
Oct. 22	Wy.	WI	12 47 41.87	+0.16	− 2 52 53.8	−1.2	*−0.3*
23	Hd.	WI	12 52 30.80	+0.23	− 3 21 36.6	−1.5	*−0.3*
26	Hd.	EI	13 8 10.70	+0.15	− 5 0 14.1	−0.2	*−0.2*
Nov. 1	Hd.	EI	13 42 46.79	+0.13	− 8 47 38.6	0.0	*−0.3*
2	Fn.	EI	13 48 46.99	+0.22	− 9 26 54.7	+0.4	*−0.4*
6	Wy.	EI	14 13 9.28	+0.22	−12 2 46.1	−1.0	*−0.3*
8	Wy.	EI	14 25 30.25	+0.12	−13 18 36.8	−0.4	*−0.2*
Dec. 7	Fn.	EI	17 28 27.04	+0.26	−25 2 28.4	−0.8	*−0.3*
1917							
Jan. 8	Wy.	EI	20 30 58.44	+0.05	−18 38 11.3	+0.6	*−0.3*
Mar. 5	Fn.	WI	21 59 11.48	+0.28	−14 30 22.6	+0.1	*−0.5*
14	Wy.	EI	22 56 26.88	+0.13	− 9 9 14.8	+0.9	*−0.3*
18	Fn.	EI	23 22 57.13	+0.26	− 6 14 20.3	+1.7	*−0.3*
21	Fn.	EI	23 43 19.92	+0.24	− 3 50 57.8	0.0	*−0.2*
Apr. 3	Hd.	WI	1 9 42.69	+0.19	+ 7 1 25.5	+0.7	*−0.2*
9	Hd.	WI	1 54 24.08	+0.11	+12 32 18.1	+0.1	*−0.1*
10	Fn.	WI	2 1 41.25	+0.14	+13 23 39.4	−0.4	*0.0*
16	Fn.	WI	2 42 34.77	+0.17	+17 50 57.3	+0.2	*−0.1*
23	Wy.	EI	3 20 7.49	+0.01	+21 10 51.6	−2.2	*−0.1*
June 18	Fn.	WII	4 18 40.48	+0.17	-- -- --	---	---
20	Wy.	WII	4 30 27.46	+0.22	+19 41 3.6	−1.0	*−0.1*
21	Fn.	WII	4 36 43.96	+0.21	+20 5 20.7	−1.5	*−0.1*
24	Wy.	WII	4 57 6.39	+0.20	+21 16 16.5	−1.6	*−0.1*
27	Wy.	EII	5 19 46.86	+0.16	+22 20 31.9	−0.4	*−0.1*
July 1	Hd.	EII	5 53 19.77	+0.13	+23 26 35.6	−0.9	*0.0*
30	Wy.	EII	9 50 41.06	+0.14	+14 24 9.2	−0.9	*−0.1*
31	Fn.	EII	9 57 6.34	+0.12	+13 44 11.5	−0.9	*−0.1*

MERCURY

[No corrections have been applied for personal equation, for equinox, or for the difference day minus night]

Date	Observer	Instrument	Apparent Right Ascension of Center	Correction to Am. Eph.	Apparent Declination of Center	Correction to Am. Eph.	Red. for External Therm.
1917			h m s	s	° ′ ″	″	″
Aug. 6	Hd.	WII	10 32 32.98	+0.13	+ 9 39 54.4	−0.8	*0.0*
10	Wy.	WII	10 53 26.90	+0.15	+ 6 57 29.9	−1.3	*−0.1*
17	Wy.	WII	11 25 1.30	+0.07	+ 2 26 47.7	−0.2	*−0.1*
21	Wy.	WII	11 40 3.29	+0.08	+ 0 6 16.4	−1.1	*0.0*
25	Wy.	EII	- - -----	----	− 1 58 9.2	+2.2	*−0.3*
Oct. 1	Fn.	WII	11 29 18.69	+0.28	+ 4 24 39.1	−0.9	*−0.1*
3	Hd.	WII	11 36 18.19	+0.13	+ 4 3 23.1	−0.7	*−0.3*
4	Fn.	WII	11 40 26.03	+0.20	+ 3 46 19.4	−0.9	*−0.1*
14	Fn.	EII	12 35 8.54	+0.19	− 1 41 7.0	−1.1	*−0.2*
21	Hd.	EII	13 18 32.37	+0.27	− 6 40 30.0	−0.8	*−0.2*
22	Wy.	EII	13 24 46.51	+0.17	− 7 23 30.8	−0.6	*−0.2*
25	Fn.	EII	13 43 28.62	+0.15	− 9 30 47.2	−0.3	*−0.3*
Dec. 10	Fn.	WII	18 31 34.68	+0.25	−25 32 6.8	−1.1	*−0.5*
20	Hd.	EII	19 19 4.66	+0.07	−23 24 10.4	+0.3	*−0.5*
21	Wy.	EII	19 21 38.04	+0.05	−23 6 47.4	+1.6	*−0.6*
1918							
Feb. 3	Hd.	WII	19 35 40.75	+0.29	−22 0 37.5	−0.2	*−0.5*
10	Wy.	WII	20 17 32.75	+0.27	−20 56 3.0	−1.7	*−0.3*
20	Fn.	EII	21 21 8.07	+0.14	−17 33 34.1	−0.1	*−0.7*
26	Hd.	EII	22 0 36.35	+0.26	−14 27 50.5	+0.4	*−0.3*
Mar. 6	Fn.	EII	22 54 37.48	+0.27	− 9 5 22.4	−0.6	*−0.2*
7	Wy.	EII	23 1 30.03	+0.16	− 8 19 11.4	+1.7	*−0.5*
18	Wy.	WII	0 11 47.24	+0.21	+ 0 22 13.5	0.0	*−0.2*
28	Fn.	WII	1 20 45.70	+0.14	+ 9 36 50.2	−0.7	*−0.1*
Apr. 5	Fn.	EII	2 4 8.55	+0.12	+15 13 3.7	+0.1	*−0.3*
June 18	Wy.	WII	- - -----	----	+22 59 1.2	+0.6	*−0.2*
23	Wy.	WII	5 57 15.03	+0.10	+24 19 11.3	−0.7	*−0.1*
July 1	Wy.	WII	7 4 14.72	+0.16	+24 18 0.0	−0.6	*−0.1*
2	Hd.	WII	7 13 29.27	+0.15	+24 6 54.5	−0.2	*−0.1*
9	Hd.	EII	8 13 36.28	+0.12	+21 47 21.8	−1.4	*−0.1*
15	Wy.	EII	8 57 50.91	+0.12	+18 46 31.4	−1.0	*−0.1*
16	Hd.	EII	9 4 34.05	+0.13	+18 12 56.7	−0.9	*−0.1*
Aug. 5	Wy.	WII	10 43 7.01	+0.02	+ 6 25 59.8	−0.5	*−0.1*

VENUS

[No corrections have been applied for personal equation, for equinox, or for the difference day minus night]

Date	Observer	Instrument	Part Observed	Apparent Right Ascension of Center	Correction to Am. Eph.	Part Observed	Apparent Declination of Center	Correction to Am. Eph.	Red. for External Therm.
1914				h m s	s		° ′ ″	″	″
Sept. 15	An.	EI	I	14 20 32.47	+0.15	N	−17 0 44.4	−2.1	*−0.2*
16	Wy.	EI	I	14 24 18.88	+0.12	N	−17 25 2.1	−0.2	*0.0*
17	Fn.	EI	I	14 28 4.78	+0.14	N	−17 49 0.3	+0.3	*−0.2*
18	An.	EI	I	14 31 49.97	+0.06	N	−18 12 36.6	+1.3	*−0.2*
21	Hd.	EI	I	14 43 1.61	+0.11	N	−19 21 16.6	−1.1	*−0.4*
22	Wy.	EI	I	14 46 43.91	+0.18	N	−19 43 22.9	−1.4	*−0.3*
23	An.	EI	--	-- -- -----	----	N	−20 5 6.2	−2.8	*−0.4*
26	An.	EI	I	15 1 22.49	+0.04	N	−21 7 39.6	−0.7	*−0.3*
27	Wy.	WI	I	15 4 59.29	+0.17	N	−21 27 39.1	0.0	*−0.3*
28	Hd.	WI	I	15 8 34.44	+0.06	N	−21 47 12.4	+0.2	*−0.5*
29	Wy.	WI	I	15 12 8.36	+0.23	N	−22 6 20.8	−1.8	*−0.3*
30	An.	WI	I	15 15 40.40	+0.14	N	−22 24 59.4	−1.4	*−0.2*
Oct. 1	Hd.	WI	I	15 19 10.69	+0.04	N	−22 43 9.6	−0.5	*−0.3*
2	Wy.	WI	I	15 22 39.27	+0.09	N	−23 0 52.4	−0.5	*−0.6*
10	An.	WI	I	15 49 3.86	+0.16	--	-- -- ----	---	---
17	An.	EI	I	16 9 21.06	+0.01	N	−26 25 57.2	−1.6	*−0.5*
19	Hd.	EI	I	16 14 29.55	+0.10	N	−26 44 5.9	+0.5	*−0.5*
21	An.	EI	I	16 19 16.60	−0.02	N	−26 59 58.7	−0.3	*−0.6*
22	Hd.	EI	I	16 21 31.64	+0.11	N	−27 7 0.7	+0.4	*−0.3*
Nov. 2	Fn.	WI	I	16 38 20.35	+0.05	N	−27 42 15.6	−0.6	*−0.4*
Dec. 15	An.	WI	--	-- -- -----	----	S	−16 59 54.3	0.0	*−0.2*
16	Fn.	WI	II	15 41 23.08	+0.18	S	−16 49 41.4	+0.1	*−0.2*
17	Hd.	WI	II	15 41 31.34	+0.15	S	−16 40 31.1	+0.3	*−0.4*
27	Fn.	WI	II	15 50 51.34	+0.15	S	−16 1 45.9	+0.6	*−0.3*
29	An.	EI	II	15 54 16.53	+0.14	S	−16 3 58.9	−0.8	*+0.3*
1915									
Jan. 4	Wy.	EI	II	16 7 7.83	0.00	S	−16 25 4.2	−0.3	*0.0*
6	Hd.	EI	II	16 12 11.85	+0.19	S	−16 35 55.9	−1.6	*−0.2*
7	Wy.	EI	II	16 14 51.48	−0.02	S	−16 41 52.8	−0.6	*−0.1*
8	An.	EI	II	16 17 36.52	+0.13	S	−16 48 9.0	0.0	*−0.2*
12	An.	WI	II	16 29 23.46	+0.39	S	−17 15 44.7	−0.4	*+0.1*
13	Hd.	WI	II	16 32 30.91	+0.16	S	−17 23 5.6	−0.3	*−0.3*
14	Fn.	WI	II	16 35 42.70	+0.17	S	−17 30 33.8	−0.4	*−0.1*
15	An.	WI	II	16 38 58.53	+0.26	--	-- -- ----	---	---
19	Hd.	EI	II	16 52 38.54	+0.08	S	−18 8 44.0	−0.5	*−0.1*
20	Wy.	EI	II	16 56 12.34	+0.09	S	−18 16 19.4	+0.8	*−0.1*
21	Fn.	EI	II	16 59 49.37	+0.04	S	−18 23 52.9	0.0	*−0.1*
28	Wy.	EI	II	17 26 33.31	+0.12	S	−19 12 58.2	−0.8	*−0.3*
1916									
June 1	Fn.	EI	I	7 18 17.57	−0.01	N	+24 45 30.6	−1.3	*0.0*
2	Hd.	EI	I	7 19 44.81	+0.04	N	+24 36 9.7	−1.3	*0.0*
5	Hd.	EI	I	7 23 15.26	−0.08	N	+24 7 12.7	−2.6	*−0.1*
8	Hd.	EI	I	7 25 24.25	−0.09	N	+23 37 15.4	−0.7	*−0.1*
12	Wy.	EI	I	7 25 59.54	+0.05	N	+22 56 9.0	−1.5	*−0.1*
13	Fn.	EI	I	7 25 42.71	−0.06	N	+22 45 45.2	−0.9	*−0.1*
22	Fn.	WI	I	7 15 32.58	+0.03	N	+21 10 55.9	−1.5	*−0.1*
23	Hd.	WI	I	7 13 37.26	−0.07	N	+21 0 21.8	−1.4	*−0.1*
26	Hd.	WI	*	7 7 5.75	−0.02	N	+20 28 48.7	−0.9	*0.0*
27	Wy.	WI	*	7 4 42.13	−0.02	N	+20 18 22.6	−1.3	*−0.1*
29	Hd.	WI	*	6 59 39.85	−0.06	N	+19 57 44.6	−2.2	*−0.1*
July 5	Wy.	EI	*	6 41 0.99	+0.02	N	+18 50 35.5	−1.8	*−0.1*
6	Fn.	EI	II	6 38 26.22	−0.04	N	+18 42 1.0	−1.7	*−0.1*

VENUS

[No corrections have been applied for personal equation, for equinox, or for the difference day minus night]

Date	Observer	Instrument	Part Observed	Apparent Right Ascension of Center	Correction to Am. Eph.	Part Observed	Apparent Declination of Center	Correction to Am. Eph.	Red. for External Therm.
1916				h m s	s		° ′ ″	″	″
July 12	Hd.	EI	*	6 24 52.24	0.00	N	+17 58 42.9	−1.1	*−0.1*
19	Hd.	EI	II	6 15 17.67	+0.06	N	+17 29 32.9	−0.4	*−0.1*
20	Wy.	EI	II	6 14 34.78	+0.04	N	+17 27 18.3	−2.1	*0.0*
26	Fn.	WI	II	6 13 45.58	+0.04	N	+17 23 4.9	−1.6	*0.0*
Aug. 20	Wy.	EI	II	7 0 58.91	+0.11	N	+18 11 55.6	−2.3	*0.0*
21	Fn.	EI	II	7 4 5.20	+0.19	N	+18 12 41.5	−2.4	*0.0*
24	Fn.	WI	II	7 13 46.78	+0.16	N	+18 13 16.7	−1.6	*0.0*
31	Fn.	WI	II	7 38 19.16	+0.19	S	+18 2 53.0	−0.3	*0.0*
Sept. 4	Wy.	WI	II	7 53 19.66	+0.20	S	+17 48 24.5	−0.7	*0.0*
7	Wy.	WI	II	8 4 57.80	+0.18	S	+17 33 4.6	−0.4	*0.0*
10	Hd.	WI	II	8 16 52.79	+0.24	S	+17 13 41.2	−1.0	*0.0*
17	Wy.	EI	II	8 45 33.41	+0.19	S	+16 12 9.4	+0.4	*0.0*
18	Hd.	EI	II	8 49 44.08	+0.21	S	+16 1 26.5	−1.2	*0.0*
19	Wy.	EI	II	8 53 55.81	+0.30	S	+15 50 17.2	−0.8	*0.0*
21	Hd.	EI	II	9 2 21.77	+0.28	S	+15 26 32.0	−1.8	*0.0*
25	Hd.	EI	II	9 19 22.67	+0.18	S	+14 33 28.6	−1.3	*−0.1*
1917									
Dec. 20	Hd.	EII	I	21 7 6.53	+0.11	S	−18 5 51.9	−1.0	*−0.2*
21	Wy.	EII	I	21 10 13.86	+0.11	S	−17 45 30.6	−0.3	*−0.3*
1918									
Jan 8	Hd.	EII	I	21 51 9.86	−0.11	S	−11 35 53.7	−0.4	*−0.3*
10	Fn.	EII	I	21 53 33.11	−0.08	S	−10 57 53.4	0.0	*−0.2*
17	Fn.	EII	I	21 57 35.65	−0.09	S	− 8 58 18.4	+0.5	*−0.2*
19	Wy.	WII	I	21 57 24.75	+0.03	S	− 8 29 13.0	+0.1	*−0.1*
21	Fn.	WII	I	21 56 35.91	+0.03	S	− 8 2 58.8	−2.1	*−0.3*
24	Fn.	WII	I	21 54 11.13	+0.07	S	− 7 29 29.1	0.0	*−0.1*
29	Wy.	WII	I	21 47 6.09	−0.10	S	− 6 51 45.2	−0.3	*−0.2*
Feb. 4	Hd.	WII	I	21 34 29.79	−0.04	S	− 6 39 6.4	−0.9	*−0.4*
10	Wy.	WII	II	21 17 19.40	−0.07	S	− 7 6 53.4	−1.1	*−0.2*
11	Fn.	WII	II	21 14 56.02	−0.10	S	− 7 13 53.9	−0.6	*−0.3*
14	Fn.	WII	II	21 8 11.71	−0.04	S	− 7 38 16.8	−1.7	*−0.2*
17	Fn.	EII	II	21 2 22.25	−0.01	S	− 8 6 11.3	+0.7	*−0.2*
20	Fn.	EII	II	20 57 44.58	+0.03	S	− 8 35 55.8	+0.5	*−0.3*
26	Hd.	EII	II	20 52 44.46	+0.13	S	− 9 34 21.7	−2.1	*−0.1*
27	Wy.	EII	II	20 52 29.21	+0.07	N	− 9 43 22.0	−1.8	*−0.2*
Mar. 7	Wy.	EII	II	20 56 12.39	+0.07	N	10 41 41.5	+1.3	*0.0*
10	Hd.	WII	II	21 0 0.18	+0.28	N	10 55 54.6	−0.2	*−0.1*
14	Fn.	WII	II	21 6 46.77	+0.09	N	−11 7 25.0	−0.6	*−0.2*
17	Wy.	WII	II	21 12 59.97	+0.27	N	−11 10 15.3	−1.0	*0.0*
18	Hd.	WII	II	21 15 15.75	+0.13	N	−11 10 2.8	+0.6	*−0.4*
24	Fn.	WII	II	21 30 36.72	+0.15	N	−10 57 0.7	−1.3	*−0.2*
25	Wy.	WII	II	21 33 25.83	+0.18	N	−10 52 50.0	−1.2	*−0.2*
27	Fn.	WII	II	21 39 15.66	+0.24	N	−10 42 48.3	−2.4	*−0.1*

* Center of that portion of illuminated disk, adjacent to the bright limb, observed in right ascension. The following corrections were applied to the observed transits:

	s
1916, June 26	−0.04 to reduce to Limb I
1916, June 27	−0.04 to reduce to Limb I
1916, June 29	−0.01 to reduce to Limb I
1916, July 5	+0.01 to reduce to Limb II
1916, July 12	+0.08 to reduce to Limb II

INDIVIDUAL RESULTS OF OBSERVATIONS OF STARS 1909-1910

INDIVIDUAL RESULTS
OF
OBSERVATIONS OF STARS, 1909-1910
REDUCED TO 1910.0

33 Piscium

	h	m	s	°	′	″	″
	0	0	43.755	−6	12	39.74	---

1909				A	B	
Sept. 24	U.	WI	−0.03	−0.9	---	
25	Hd.	WI	+0.03	+1.1	---	
28	Hd.	WI	0.00	+0.2	---	
30	T.	WI	+0.02	+1.3	---	
Oct. 1	Hd.	WI	+0.04	+1.4	---	
2	T.	WI	+0.02	+1.3	---	
4	Hd.	EI	0.00	−0.9	---	
5	T.	EI	+0.09	+0.9	---	
6	U.	EI	+0.05	+1.6	---	
7	Hd.	EI	+0.06	+1.2	---	
8	T.	EI	+0.01	+1.7	---	
9	U.	EI	+0.01	+0.6	---	
12	U.	EI	----	+0.2	---	
13	Hd.	EI	+0.03	+1.8	---	
16	T.	EI	+0.01	0.0	---	
19	Hd.	EI	+0.02	+0.9	---	
20	T.	WI	+0.04	−0.1	---	
22	T.	WI	0.00	+0.6	---	
Mean 1909.77–1909.77			+0.024	+0.72	---	
Corr			−0.081	+0.02	---	

α Andromedæ

	h	m	s	°	′	″	″
	0	3	43.970	+28	35	36.86	---

1909				A	B	
Feb. 11	*Hd.–Pk.*	*EI*	----	*+0.3*	*−1.6*	
18	*Hd.*	*EI*	----	*+0.5*	---	
Sept. 24	U.	WI	+0.01	−0.4	---	
25	Hd.	WI	+0.03	+1.0	---	
28	Hd.	WI	−0.01	+0.2	---	
29	U.	WI	+0.01	+0.5	---	
30	T.	WI	0.00	+1.7	---	
Oct. 1	Hd.	WI	−0.04	+1.0	---	
2	T.	WI	+0.06	+0.7	---	
4	Hd.	EI	−0.01	−0.6	---	
5	T.	EI	−0.03	0.0	---	
6	U.	EI	−0.02	+0.3	---	
7	Hd.	EI	−0.03	+0.4	---	
8	T.	EI	+0.02	−0.1	---	
9	U.	EI	----	+0.3	---	
12	U.	EI	−0.06	+0.7	---	
13	Hd.	EI	−0.01	+0.4	---	
16	T.	EI	+0.01	+0.6	---	
19	Hd.	EI	−0.01	+0.9	---	
20	T.	WI	−0.01	−0.2	---	
22	T.	WI	−0.01	+0.7	---	
Dec. 5	U.	EI	+0.09	−0.4	---	
6	Hd.	EI	+0.03	0.0	---	
8	U.	EI	−0.01	−0.2	---	
15	Hd.	EI	+0.02	−0.5	---	
16	U.	EI	−0.05	+0.5	---	
18	Hd.	EI	----	−0.5	---	
20	Hd.	EI	−0.01	+0.3	---	
21	U.	EI	+0.02	0.0	---	
30	Hd.	WI	−0.01	0.0	---	
1910						
Jan. 4	*Hd.*	*WI*	*−0.02*	*−0.2*		
7	*T.*	*WI*	*−0.02*	*+0.6*		
8	*U.*	*WI*	*0.00*	*+0.5*	---	
9	*Hd.*	*WI*	*0.00*	*+0.3*	---	
10	*T.*	*WI*	*+0.01*	*+0.3*	---	
15	*T.*	*WI*	*+0.02*	*+0.6*	---	
16	*U.*	*WI*	*−0.02*	*−0.5*	---	
Mean 1909.82–1909.83			−0.001	+0.26	---	
Corr			−0.081	+0.05	---	

β Cassiopeiæ

	h	m	s	°	′	″	″
	0	4	----	+58	39	12.27	---

1909				A	B	
Oct. 30	Hd.–T.	WI	----	+0.5	---	R.
30	Hd.–T.	WI	----	+1.8	---	
31	Hd.–T.	WI	----	+0.7	---	R.
31	Hd.–T.	WI	----	+0.5	---	
Nov. 5	Hd.–T.	WI	----	+0.3	---	R.
11	Hd.–U.	WI	----	−0.5	---	R.
11	Hd.–U.	WI	----	+0.8	---	
12	Hd.–T.	WI	----	+0.3	---	R.
12	Hd.–T.	WI	----	+1.3	---	
13	Hd.–T	EI	----	−0.2	---	R.
13	Hd.–T.	EI	----	0.0	---	
19	Hd.–T.	EI	----	−0.3	---	R.
19	Hd.–T.	EI	----	+0.5	---	
20	Hd.–T.	EI	----	+0.1	---	R.
20	Hd.–T	EI	----	+1.2	---	
22	Hd.–T.	EI	----	+0.2	---	R.
22	Hd.–T.	EI	----	+1.0	---	
27	Hd.–T.	EI	----	+0.5	---	R.
27	Hd.–T.	EI	----	−0.1	---	
Mean 1909.87			----	+0.78	---	
Corr			----	+0.06	---	

γ Pegasi

	h	m	s	°	′	″	″
	0	8	35.989	+14	40	59.70	---

1909				A	B	
Feb. 11	*Hd.–Pk.*	*EI*	----	*−0.5*	*−1.5*	
18	*Hd.*	*EI*	----	*+0.1*	---	
Sept. 24	U.	WI	+0.03	−0.6	---	
25	Hd.	WI	0.00	+0.9	---	
28	Hd.	WI	+0.03	+1.9	---	
29	U.	WI	−0.01	+0.4	---	
30	T.	WI	−0.02	+1.1	---	
Oct. 1	Hd.	WI	+0.01	+0.8	---	
2	T.	WI	+0.02	+0.3	---	
4	Hd.	EI	0.00	−0.2	---	
5	T.	EI	+0.04	+0.8	---	
6	U.	EI	+0.02	0.0	---	
7	Hd.	EI	+0.03	−0.5	---	
8	T.	EI	+0.04	+0.1	---	
9	U.	EI	+0.01	+0.6	---	
12	U.	EI	−0.03	+0.1	---	
13	Hd.	EI	+0.03	+0.3	---	
16	T.	EI	−0.03	+0.3	---	
19	Hd.	EI	+0.06	−0.3	---	
20	T.	WI	+0.02	+0.1	---	
22	T.	WI	0.00	+0.9	---	
Dec. 5	U.	EI	+0.01	+0.5	---	
6	Hd.	EI	+0.06	−1.0	---	
8	U.	EI	+0.05	+0.7	---	
15	Hd.	EI	+0.03	−0.7	---	
16	U.	EI	+0.01	+0.2	---	
18	Hd.	EI	+0.03	+0.4	---	
20	Hd.	EI	+0.04	−0.1	---	
21	U.	EI	−0.01	−0.7	---	
30	Hd.	WI	−0.02	+0.7	---	
1910						
Jan. 4	Hd.	WI	+0.01	+0.2	---	
7	*T.*	*WI*	*+0.03*	*+0.9*	---	
8	*U.*	*WI*	*−0.01*	*+0.2*	---	
9	*Hd.*	*WI*	*0.00*	*+0.4*	---	
10	*T.*	*WI*	*+0.01*	*+1.0*	---	
15	*T.*	*WI*	*+0.02*	*+0.4*	---	
16	*U.*	*WI*	*0.00*	*−0.7*	---	
Mean ---- 1909.83			+0.016	+0.25	---	
Corr			−0.081	+0.04	---	

ι Ceti

h m s 0 14 50.560 | ° ′ ″ −9 19 21.99 | ″ ---

1909					A	B	
Sept.	24	U.	WI	+0.02	−1.4	---	
	25	Hd.	WI	+0.05	+0.7	---	
	28	Hd.	WI	+0.07	+0.4	---	
	29	U.	WI	0.00	−0.5	---	
	30	T.	WI	+0.10	+0.9	---	
Oct.	1	Hd.	WI	+0.04	+1.1	---	
	2	T.	WI	+0.05	+0.1	---	
	4	Hd.	EI	+0.02	+0.1	---	
	5	T.	EI	+0.04	+0.8	---	
	6	U.	EI	+0.05	+1.0	---	
	7	Hd.	EI	+0.05	+0.6	---	
	8	T.	EI	+0.03	+0.9	---	
	9	U.	EI	+0.05	+0.8	---	
	12	U.	EI	+0.03	−0.6	---	
	13	Hd.	EI	0.00	+1.3	---	
	16	T.	EI	0.00	+0.2	---	
	19	Hd.	EI	+0.08	+1.3	---	
	20	T.	WI	+0.02	−0.6	---	
	22	T.	WI	+0.03	+0.7	---	
	30	Hd.–T.	WI	----	−0.2	---	R.
	30	Hd.–T.	WI	----	−0.8	---	
	31	Hd.–T.	WI	----	−0.3	---	R.
	31	Hd.–T.	WI	----	−1.0	---	
Nov.	11	Hd.–U.	WI	----	−1.4	---	R.
	11	Hd.–U.	WI	----	−1.4	---	
	12	Hd.–T.	WI	----	−1.0	---	R.
	12	Hd.–T.	WI	----	−1.0	---	
	13	Hd.–T.	EI	----	−0.2	---	R.
	13	Hd.–T.	EI	----	−0.4	---	
	19	Hd.–T.	EI	----	+0.2	---	R.
	19	Hd.–T.	EI	----	−0.4	---	
	27	Hd.–T.	EI	----	−0.1	---	R.
	27	Hd.–T.	EI	----	−0.2	---	
Dec.	5	U.	EI	+0.02	+1.3	---	
	6	Hd.	EI	+0.04	−0.1	---	
	8	U.	EI	−0.03	+0.2	---	
	15	Hd.	EI	+0.05	+0.3	---	
	16	U.	EI	+0.05	+1.0	---	
	18	Hd.	EI	+0.05	+1.3	---	
	20	Hd.	EI	+0.06	+0.3	---	
	21	U.	EI	+0.08	0.0	---	
	30	Hd.	WI	+0.06	+0.4	---	
1910							
Jan.	4	Hd.	WI	+0.05	−0.2	---	
	7	*T.*	*WI*	*+0.11*	*−0.4*	---	
	8	*U.*	*WI*	*+0.04*	*+0.6*	---	
	9	*Hd.*	*WI*	*+0.02*	*−0.4*	---	
	10	*T.*	*WI*	*+0.07*	*+0.6*	---	
	15	*T.*	*WI*	*+0.02*	*−0.1*	---	
	16	*U.*	*WI*	*+0.03*	*−0.8*	---	
Mean–		1909.83–1909.84		+0.040	+0.20	---	
Corr				−0.081	+0.02	---	

44 Piscium

h m s 0 20 47.316 | ° ′ ″ +1 26 28.62, 28.60 | ″ ---

1909					A	B	
Sept.	24	U.	WI	+0.04	−1.0	---	
	25	Hd.	WI	+0.03	+1.1	---	
	28	Hd.	WI	+0.05	+0.9	---	
	29	U.	WI	+0.06	+0.3	---	
	30	T.	WI	+0.04	+1.8	---	
Oct.	1	Hd.	WI	+0.04	+0.1	---	
	2	T.	WI	−0.01	+0.2	---	
	4	Hd.	EI	+0.05	+0.7	---	
	5	T.	EI	+0.03	+1.2	---	
	6	U.	EI	+0.02	+0.1	---	
	7	Hd.	EI	+0.03	+0.7	---	
	8	T.	EI	+0.01	+0.9	---	
	9	U.	EI	+0.07	+1.3	---	
	12	U.	EI	+0.01	+1.5	---	
	13	Hd.	EI	0.00	+1.9	---	
	16	T.	EI	−0.01	+0.7	---	
	19	Hd.	EI	+0.01	+1.1	---	
	20	T.	WI	+0.04	+0.5	---	
1910							
Sept.	7	T.	EI	+0.01	+0.3	+0.1	
	9	Hd.	EI	+0.04	+0.7	+0.3	
	12	T.	EI	+0.05	−0.2	0.0	R.
	15	Hd.	EI	----	0.0	+0.4	R.
	16	T.	EI	+0.03	−0.5	+0.3	R.
	17	Hd.	EI	+0.04	−0.5	−0.1	R.
	20	Hd.	EI	+0.04	+0.7	+0.1	
	21	T.	EI	+0.04	+1.1	+0.9	
	22	Hd.	WI	+0.03	+0.1	+1.2	
	25	T.	WI	+0.07	+0.2	+0.3	R.
	27	T.	WI	+0.04	+0.3	−0.1	
	28	Hd.	WI	+0.03	+0.8	+1.2	
Oct.	1	T.	WI	+0.05	+0.6	+0.7	
	2	Hd.	WI	+0.06	−0.2	−0.4	R.
	3	T.	WI	----	+0.1	−0.3	R.
	4	T.	WI	−0.01	−0.5	−0.5	R.
	11	Hd.	EII	+0.07	−1.2	−0.7	R.
	12	T.	EII	+0.04	+0.3	+0.3	
	14	Hd.	EII	+0.01	−0.4	−0.4	R.
	15	T.	EII	+0.01	−0.3	−0.3	R.
	16	Hd.	EII	+0.04	+0.9	+0.9	
	17	T.	EII	+0.06	−1.2	−1.0	R.
	18	Hd.	EII	−0.02	+0.5	+0.2	
	20	T.	EII	+0.01	+1.1	+1.3	
	24	Hd.	WII	+0.02	−0.4	−0.9	R.
	25	T.	WII	+0.03	+1.3	+0.6	
	26	Hd.	WII	−0.01	−0.4	−0.7	R.
	31	Hd.	WII	+0.03	+1.4	+1.9	
Nov.	1	Hd.	WII	+0.03	+0.2	+0.1	
	6	T.	WII	0.00	−0.4	−0.2	R.
	8	T.	WII	+0.03	---	−0.2	
	20	T.	WII	−0.01	+0.8	−0.1	R.
	26	Hd.	WII	+0.02	---	---	
Mean–		1910.25–1910.22		+0.029	+0.74	+0.59	
		1910.77					
Corr				−0.081	+0.03	+0.03	

12 Ceti

h m s 0 25 26.761 | ° ′ ″ −4 27 16.09 | ″ ---

1909					A	B	
Sept.	24	U.	WI	+0.01	−1.4	---	
	25	Hd.	WI	+0.01	+0.6	---	
	28	Hd.	WI	+0.04	+0.6	---	
	29	U.	WI	+0.02	+0.3	---	
	30	T.	WI	0.00	+1.0	---	
Oct.	1	Hd.	WI	0.00	−0.1	---	
	2	T.	WI	+0.02	+1.0	---	
	4	Hd.	EI	+0.04	−0.3	---	
	5	T.	EI	+0.01	0.0	---	
	6	U.	EI	0.00	−0.2	---	
	7	Hd.	EI	+0.05	+0.6	---	
	8	T.	EI	+0.02	+0.7	---	
	9	U.	EI	+0.03	+1.5	---	
	12	U.	EI	+0.02	+0.3	---	
	13	Hd.	EI	0.00	+0.5	---	
	16	T.	EI	+0.01	−0.7	---	
	19	Hd.	EI	+0.03	+0.8	---	
	20	T.	WI	0.00	+0.2	---	
	30	Hd.–T.	WI	----	−1.2	---	R.
	30	Hd.–T.	WI	----	−0.5	---	
	31	Hd.–T.	WI	----	−0.4	---	R.
	31	Hd.–T.	WI	----	−0.7	---	
Nov.	11	Hd.–U.	WI	----	−0.7	---	R.
	11	Hd.–U.	WI	----	−1.2	---	
	12	Hd.–T.	WI	----	−0.7	---	R.
	12	Hd.–T.	WI	----	−0.1	---	
	13	Hd.–T.	EI	----	−0.6	---	R.
	13	Hd.–T.	EI	----	−0.2	---	
	19	Hd.–T.	EI	----	−0.8	---	R.
	19	Hd.–T.	EI	----	−0.4	---	
	20	Hd.–T.	EI	----	−0.6	---	R.

			s	″ A	″ B	
1909						
Nov. 20	Hd.–T.	EI	----	−1.0	---	
22	Hd.–T.	EI	----	−0.4	---	R.
22	Hd.–T.	EI	----	−0.5	---	
27	Hd.–T.	EI	----	−1.3	---	R.
27	Hd.–T.	EI	----	−0.2	---	
Mean 1909.76–1909.80			+0.017	+0.02	---	
Corr			−0.081	+0.02	---	

κ Cassiopeiæ

			h m s	° ′	″ A	″ B	
1910							
Sept. 7	T.	EI	0 27 52.59	+62 26	7.5	7.4	
9	Hd.	EI	52.62		7.2	6.5	
12	T.	EI	52.64		5.6	5.7	R.
15	Hd.	EI	52.69		7.6	6.9	R.
16	T.	EI	52.58		6.5	6.5	R.
17	Hd.	EI	52.50		6.6	6.5	R.
20	Hd.	EI	52.43		6.8	7.0	
21	T.	EI	52.44		6.0	6.2	
22	Hd.	WI	52.61		6.1	7.0	
25	T.	WI	52.50		7.1	6.7	R.
26	Hd.	WI	52.56		6.6	6.2	R.
27	T.	WI	52.51		7.0	6.7	
28	Hd.	WI	52.44		6.6	7.3	
Oct. 1	T.	WI	52.46		6.8	6.6	
2	Hd.	WI	52.33		6.5	6.5	R.
3	T.	WI	-----		7.0	7.5	R.
4	T.	WI	52.26		7.2	7.6	R.
11	Hd.	EII	52.67		7.5	8.2	R.
12	T.	EII	52.60		7.0	7.4	
14	Hd.	EII	52.53		6.7	5.7	R.
15	T.	EII	52.60		7.2	7.2	R.
16	Hd.	EII	52.62		6.5	6.7	
17	T.	EII	52.59		7.1	7.0	R.
18	Hd.	EII	52.42		7.2	6.9	
20	T.	EII	52.58		6.0	6.1	
24	Hd.	WII	52.56		7.1	6.1	R.
25	T.	WII	52.54		7.4	7.5	
26	Hd.	WII	52.45		6.0	5.8	R.
31	Hd.	WII	52.61		6.7	7.0	
Nov. 1	Hd.	WII	52.46		7.0	7.6	
6	T.	WII	52.42		7.0	7.1	R.
8	T.	WII	52.60		---	---	
20	T.	WII	52.57		6.5	6.2	R.
Mean 1910.77			0 27 52.533	+62 26	6.79	6.93	
1910.76							
Corr			−0.081		+0.06	+0.06	

ζ Cassiopeiæ

			h m s	° ′	″ A	″ B	
			0 31 57.093	+53 24	6.18	---	
1909							
Sept. 24	U.	WI	−0.07		−0.2	---	
25	Hd.	WI	−0.11		+0.8	---	
28	Hd.	WI	−0.06		+0.5	---	
29	U.	WI	−0.13		+0.3	---	
30	T.	WI	−0.10		+1.0	---	
Oct. 1	Hd.	WI	0.00		+0.9	---	
2	T.	WI	−0.05		+0.5	---	
4	Hd.	EI	−0.03		−0.4	---	
5	T.	EI	−0.11		+0.2	---	
6	U.	EI	−0.06		+0.6	---	
7	Hd.	EI	+0.01		0.0	---	
8	T.	EI	−0.08		+0.2	---	
9	U.	EI	−0.07		+0.8	---	
12	U.	EI	−0.12		−0.2	---	
13	Hd.	EI	−0.05		−0.6	---	
16	T.	EI	−0.02		−0.7	---	
19	Hd.	EI	−0.05		+0.4	---	
20	T.	WI	−0.06		+0.6	---	
Mean 1909.76			−0.064		+0.26	---	
Corr			−0.081		+0.06	---	

ϵ Andromedæ

			h m s	° ′ ″	″ A	″ B	
			0 33 ----	+28 49 23.57	---		
1909							
Oct. 30	Hd.–T.	WI	----		−0.5	---	R.
30	Hd.–T.	WI	----		+1.3	---	
31	Hd.–T.	WI	----		−0.2	---	R.
31	Hd.–T.	WI	----		−0.8	---	
Nov. 11	Hd.–U.	WI	----		−0.7	---	R.
11	Hd.–U.	WI	----		+0.2	---	
12	Hd.–T.	WI	----		−0.5	---	R.
12	Hd.–T.	WI	----		−0.4	---	
13	Hd.–T.	EI	----		+0.2	---	R.
13	Hd.–T.	EI	----		+0.8	---	
19	Hd.–T.	EI	----		+0.5	---	R.
19	Hd.–T.	EI	----		−0.6	---	
20	Hd.–T.	EI	----		−0.2	---	R.
20	Hd.–T.	EI	----		−0.7	---	
22	Hd.–T.	EI	----		−0.6	---	R.
22	Hd.–T.	EI	----		−0.1	---	
27	Hd.–T.	EI	----		−0.6	---	R.
27	Hd.–T.	EI	----		−0.8	--	
Mean 1909.87			----		−0.12	---	
Corr			----		+0.05	---	

δ Andromedæ

			h m s	° ′ ″	″ A	″ B	
			0 34 30.736	+30 22 6.53	---		
1909							
Dec. 5	U.	EI	+0.03		+0.1	---	
6	Hd.	EI	−0.04		−0.9	---	
8	U.	EI	+0.01		+1.3	---	
15	Hd.	EI	+0.01		0.0	---	
16	U.	EI	−0.04		+0.4	---	
18	Hd.	EI	−0.04		+0.7	---	
20	Hd.	EI	−0.06		+0.8	---	
21	U.	EI	−0.01		+0.9	---	
30	Hd.	WI	−0.05		+0.2	---	
1910							
Jan. 4	Hd.	WI	−0.04		−0.2	---	
7	T.	WI	+0.04		+1.0	---	
8	U.	WI	−0.08		+0.8	---	
9	Hd.	WI	−0.05		+0.7	---	
10	T.	WI	−0.03		+0.9	---	
16	*U.*	*WI*	*−0.06*		*+0.5*	---	
Mean 1909.98			−0.025		+0.48	---	
Corr			−0.081		+0.05	---	

α Cassiopeiæ

			h m s	° ′ ″	″ A	″ B	
			0 35 23.571	+56 2 37.99, 37.98			
1909							
Feb. 11	*Hd.–Pk.*	*EI*	----		*+0.8*	*−1.0*	
17	*U.–Pk.*	*EI*	----		*−2.0*	*+0.7*	
18	*Hd.*	*EI*	----		*+0.8*	---	
Mar. 5	*U.–Pk.*	*WI*	----		*−0.3*	*+1.4*	
Sept. 24	U.	WI	−0.06		−0.6	---	
25	Hd.	WI	+0.09		+0.8	---	
28	Hd.	WI	+0.04		+1.0	---	
29	U.	WI	−0.05		+0.6	---	
30	T.	WI	0.00		+0.3	---	
Oct. 1	Hd.	WI	+0.10		+1.1	---	
2	T.	WI	−0.01		+1.2	---	
4	Hd.	EI	+0.02		+0.1	---	
5	T.	EI	+0.09		−0.5	---	
6	U.	EI	+0.03		+0.2	---	
7	Hd.	EI	+0.10		−0.3	---	
8	T.	EI	+0.01		+0.4	---	
9	U.	EI	+0.02		+0.7	---	
12	U.	EI	+0.14		+0.2	---	
13	Hd.	EI	0.00		+0.8	---	
16	T.	EI	+0.02		−0.5	---	
19	Hd.	EI	+0.06		+0.6	---	
20	T.	WI	+0.08		0.0	---	
22	T.	WI	+0.09		+0.1	---	

				s	″ A	″ B	
1910							
Sept.	7	T.	EI	+0.13	+0.4	+0.4	
	9	Hd.	EI	+0.10	−0.3	−0.1	
	12	T.	EI	+0.14	−0.6	−0.9	R.
	15	Hd.	EI	+0.17	+0.1	−0.9	R.
	16	T.	EI	−0.04	−0.3	+0.4	R.
	17	Hd.	EI	+0.03	−0.2	−0.1	R.
	20	Hd.	EI	−0.07	+0.5	+0.6	
	21	T.	EI	+0.08	−0.2	+0.3	
	22	Hd.	WI	+0.10	−0.2	+0.4	
	25	T.	WI	+0.04	−0.6	−0.8	R.
	26	Hd.	WI	+0.09	+0.3	0.0	R.
	27	T.	WI	+0.06	+1.2	+0.4	
	28	Hd.	WI	−0.12	+1.0	+0.6	
Oct.	1	T.	WI	−0.07	−0.2	−0.2	
	2	Hd.	WI	−0.10	−0.4	−0.3	R.
	3	T.	WI	----	+0.3	+0.3	R.
	4	T.	WI	−0.08	+0.6	+1.2	R.
	11	Hd.	EII	+0.14	+0.5	+0.3	R.
	12	T.	EII	+0.07	+1.1	+1.2	
	14	Hd.	EII	−0.04	+1.1	−0.1	R.
	15	T.	EII	+0.05	+0.8	+1.4	R.
	16	Hd.	EII	+0.08	0.0	−0.4	
	17	T.	EII	+0.09	−0.4	−0.7	R.
	18	Hd.	EII	−0.14	+0.1	−0.4	
	20	T.	EII	+0.09	+0.1	−0.1	
	24	Hd.	WII	−0.03	+0.6	+0.8	R.
	25	T.	WII	0.00	−0.3	0.0	
	26	Hd.	WII	−0.04	−0.8	−0.2	R.
	31	Hd.	WII	+0.13	+1.6	+1.2	
Nov.	1	Hd.	WII	−0.04	+0.3	+0.5	
	6	T.	WII	−0.05	−0.4	+0.1	R.
	8	T.	WII	+0.08	+1.1	+0.4	
	20	T.	WII	+0.05	−1.0	−0.1	R.
Mean		1910.22–1910.22		+0.036	+0.35	+0.30	
		1910.77					
Corr				−0.081	+0.06	+0.06	

β Ceti

h m s 0 39 4.354 ° ′ ″ −18 28 49.42 ″ ---

					″ A	″ B	
1909							
Feb.	*11*	*Hd.–Pk.*	*EI*	----	*−0.5*	*+0.2*	
	18	*Hd.*	*EI*	----	*−0.4*	---	
Sept.	25	Hd.	WI	+0.09	−0.9	---	
	28	Hd.	WI	+0.03	+0.4	---	
	30	T.	WI	+0.11	0.0	---	
Oct.	1	Hd.	WI	+0.03	−1.1	---	
	2	T.	WI	+0.07	+0.3	---	
	4	Hd.	EI	+0.07	−1.4	---	
	6	U.	EI	+0.03	−0.2	---	
	7	Hd.	EI	+0.03	0.0	---	
	8	T.	EI	+0.08	−0.2	---	
	9	U.	EI	+0.06	−0.5	---	
	12	U.	EI	+0.08	−1.0	---	
	13	Hd.	EI	+0.13	−0.4	---	
	16	T.	EI	+0.10	+0.8	---	
	19	Hd.	EI	+0.10	−0.8	---	
	20	T.	WI	+0.10	−1.0	---	
	22	T.	WI	+0.04	0.0	---	
Dec.	5	U.	EI	+0.04	+0.8	---	
	6	Hd.	EI	+0.05	−0.4	---	
	8	U.	EI	+0.11	−0.5	---	
	15	Hd.	EI	+0.06	−0.6	---	
	16	U.	EI	+0.09	−0.4	---	
	20	Hd.	EI	+0.07	0.0	---	
	21	U.	EI	+0.09	−1.0	---	
	30	Hd.	WI	+0.11	−1.1	---	
1910							
Jan.	4	Hd.	WI	+0.06	−0.6	---	
	7	T.	WI	+0.01	−1.1	---	
	8	U.	WI	0.00	−1.2	---	
	9	Hd.	WI	+0.05	−1.0	---	
	10	T.	WI	+0.02	−0.4	---	
	15	*T.*	*WI*	*+0.08*	*+0.1*	---	
	16	*U.*	*WI*	*+0.04*	*−0.4*	---	
Mean		1909.86		+0.066	−0.47	---	
Corr				−0.081	0.00	---	

21 Cassiopeiæ s. p.

h m s 0 39 41.189 ° ′ ″ +74 29 46.65, 46.65

				″ A	″ B	
1909						
May	5	Hd.–T.	EI	+0.36	+0.9	−1.5
	6	U.–Pk.	EI	----	+1.3	---
	9	U.–Pk.	EI	+0.14	−0.2	+0.3
	11	U.–Pk.	EI	−0.03	---	−0.1
	12	Hd.–T.	EI	+0.12	0.0	−0.3
	14	U.–Pk.	WI	----	+1.3	---
	15	Hd.–T.	WI	+0.06	−0.2	+0.7
	16	U.–Pk.	WI	+0.08	+0.5	+2.2
	17	Hd.–T.	WI	+0.06	−0.9	−0.7
	18	U.–Pk.	WI	+0.12	+0.3	+1.0
	23	Hd.–T.	WI	+0.01	+0.2[	+3.1]
Mean		1909.37–1909.37		+0.102	+0.32	+0.20
		1909.36				
Corr				−0.081	−0.12	−0.12

δ Piscium

h m s 0 44 0.700 ° ′ ″ +7 5 43.58 ″ ---

				″ A	″ B	
1909						
Sept.	24	U.	WI	0.00	−1.0	---
	25	Hd.	WI	+0.01	+1.2	---
	28	Hd.	WI	+0.03	+0.5	---
	29	U.	WI	−0.01	+0.7	---
	30	T.	WI	+0.03	+1.1	---
Oct.	1	Hd.	WI	+0.01	+0.1	---
	2	T.	WI	+0.01	+0.5	---
	4	Hd.	EI	+0.03	−0.6	---
	5	T.	EI	+0.02	+0.3	---
	6	U.	EI	+0.06	+0.3	---
	7	Hd.	EI	+0.07	+0.2	---
	8	T.	EI	+0.02	+0.2	---
	9	U.	EI	+0.01	+0.6	---
	12	U.	EI	+0.02	+0.2	---
	13	Hd.	EI	+0.01	−0.6	---
	16	T.	EI	+0.03	−0.5	---
	19	Hd.	EI	+0.03	−0.1	---
	20	T.	WI	−0.01	+0.8	---
Dec.	5	U.	EI	+0.01	−0.3	---
	6	Hd.	EI	+0.05	−0.2	---
	8	U.	EI	0.00	+0.6	---
	15	Hd.	EI	+0.05	−0.6	---
	16	U.	EI	+0.04	+0.2	---
	18	Hd.	EI	+0.05	+0.1	---
	20	Hd.	EI	+0.03	+0.6	---
	21	U.	EI	+0.04	−0.3	---
	30	Hd.	WI	+0.09	−0.3	---
1910						
Jan.	4	Hd.	WI	+0.04	−1.2	---
	7	T.	WI	−0.03	+0.2	---
	8	U.	WI	−0.01	+0.1	---
	9	Hd.	WI	+0.03	0.0	---
	10	T.	WI	+0.02	+0.1	---
	15	*T.*	*WI*	*+0.05*	*+0.7*	---
	16	*U.*	*WI*	*+0.03*	*−0.3*	---
Mean		1909.86		+0.024	+0.09	---
Corr				−0.081	+0.03	---

43 H. Cephei

h m s 0 56 16.14 ° ′ ″ +85 46 29.28, 29.28

				″ A	″ B	
1909						
Sept.	24	U.	WI	−0.17	−0.3	---
	25	Hd.	WI	+0.22	+0.3	---
	28	Hd.	WI	+0.43	0.0	---
	29	U.	WI	+0.26	+0.6	---
	30	T.	WI	+0.21	+0.4	---
Oct.	1	Hd.	WI	+0.30	+0.9	---
	2	T.	WI	+0.04	+0.1	---
	4	Hd.	EI	+0.31	−0.3	---

				s	″ A	″ B	
1909							
Oct.	5	T.	EI	−0.10	−0.1	---	
	6	U.	EI	+1.11	−0.2	---	
	7	Hd.	EI	+0.67	0.0	---	
	8	T.	EI	+0.07	−0.5	---	
	9	U.	EI	+0.53	−0.2	---	
	12	U.	EI	+0.13	−0.7	---	
	13	Hd.	EI	−0.52	−0.6	---	
	16	T.	EI	+0.09	+0.1	---	
	19	Hd.	EI	+0.13	+0.2	---	
	20	T.	WI	−0.31	+0.3	---	
Dec.	5	U.	EI	+0.09	−0.8	---	
	6	Hd.	EI	+0.08	−0.3	---	
	8	U.	EI	+0.36	−0.3	---	
	15	Hd.	EI	+0.23	−0.6	---	
	16	U.	EI	+0.75	+0.8	---	
	18	Hd.	EI	+0.70	---	---	
	20	Hd.	EI	+0.32	−0.5	---	
	21	U.	EI	+0.29	+0.8	---	
	30	Hd.	WI	+0.09	−0.2	---	
1910							
Jan.	4	Hd.	WI	+0.14	−0.2	---	
	7	T.	WI	−0.41	+0.2	---	
	8	U.	WI	+0.28	−0.2	---	
	9	Hd.	WI	−0.02	+0.2	---	
	10	T.	WI	−0.03	−0.7	---	
	16	*U.*	*WI*	*+1.05*	*−0.4*	---	
Sept.	7	T.	EI	+0.57	+0.8	+0.6	
	9	Hd.	EI	+0.44	−0.5	−1.2	
	12	T.	EI	+0.96	−0.8	−0.1	R.
	15	Hd.	EI	+1.02	−0.4	−0.2	R.
	16	T.	EI	+0.93	−0.8	−0.6	R.
	17	Hd.	EI	+0.34	−0.8	+0.4	R.
	20	Hd.	EI	+0.22	−0.8	−0.6	
	21	T.	EI	−0.30	0.0	+0.7	
	22	Hd.	WI	+0.18	−0.9	−0.3	
	25	T.	WI	−0.93	0.0	0.0	R.
	26	Hd.	WI	−0.01	0.0	−0.4	R.
	27	T.	WI	+0.41	+0.1	+0.2	
	28	Hd.	WI	−0.63	−0.8	−0.3	
Oct.	1	T.	WI	+0.12	−1.4	−0.5	
	2	Hd.	WI	−0.82	−0.5	−0.1	R.
	3	T.	WI	---	−0.1	−0.2	R.
	4	T.	WI	−1.05	+0.1	+0.4	R.
	11	Hd.	EII	+0.96	−0.5	+0.3	R.
	12	T.	EII	+0.15	−0.4	−0.3	
	14	Hd.	EII	−0.34	−0.6	−0.4	R.
	15	T.	EII	+1.05	+0.3	+0.1	R.
	16	Hd.	EII	+0.59	−0.6	0.0	
	17	T.	EII	+0.01	−0.3	−0.3	R.
	18	Hd.	EII	−0.39	0.0	+0.1	
	20	T.	EII	+0.22	−1.1	−0.8	
	24	Hd.	WII	−0.22	−0.5	−0.6	R.
	25	T.	WII	+0.43	−0.3	−0.3	
	26	Hd.	WII	−1.01	−0.9	−0.4	R.
	31	Hd.	WII	+0.93	−1.4	−1.3	
Nov.	1	Hd.	WII	−0.35	−0.3	−0.4	
	6	T.	WII	−0.70	−1.0	−1.0	R.
	8	T.	WII	+0.56	0.0	0.0	
	20	T.	WII	−0.40	+0.4	−0.2	R.
Mean		1910.16–1910.16		+0.20	−0.20	−0.28	
		1910.77					
Corr				−0.08	+0.08	+0.08	

43 H. Cephei s. p.

h m s 0 56 16.14 ° ′ ″ +85 46 29.28

				s	″ A	″ B	
1909							
Dec.	*16*	*U.*	*EI*	*+0.80*	*−1.4*	---	
	18	*Hd.*	*EI*	*−0.19*	*0.0*	---	
	20	*Hd.*	*EI*	*−0.12*	*−1.4*	---	
	23	Hd.	EI	+0.59	−0.7	---	
1910							
Jan.	7	T.	WI	+0.47	−0.8	---	
	8	U.	WI	−0.01	0.0	---	
	9	Hd.	WI	+0.20	0.0	---	
	10	T.	WI	+0.22	+0.2	---	
	16	U.	WI	−0.05	---	---	
Mean		1910.18–1910.14		+0.24	−0.26	---	
Corr				−0.08	−0.09	---	

ϵ Piscium

h m s 0 58 ---- ° ′ ″ +7 24 20.78

					″ A	″ B	
1909							
Oct.	30	Hd.–T.	WI	----	+0.2	---	R.
	30	Hd.–T.	WI	----	−0.4	---	
	31	Hd.–T.	WI	----	−0.2	---	R.
	31	Hd.–T.	WI	----	−0.6	---	
Nov.	11	Hd.–U.	WI	----	−1.0	---	R.
	11	Hd.–U.	WI	----	−0.9	---	
	12	Hd.–T.	WI	----	−0.7	---	R.
	12	Hd.–T.	WI	----	−0.8	---	
	13	Hd.–T.	EI	----	−0.3	---	R.
	13	Hd.–T.	EI	----	−0.2	---	
	19	Hd.–T.	EI	----	−0.5	---	R.
	19	Hd.–T.	EI	----	−0.3	---	
	27	Hd.–T.	EI	----	−1.4	---	R.
	27	Hd.–T.	EI	----	−0.7	---	
Mean		1909.86		----	−0.56	---	
Corr				----	+0.03	---	

η Ceti

h m s 1 4 3.751 ° ′ ″ −10 39 32.72

				s	″ A	″ B	
1910							
Sept.	7	T.	EI	+0.05	−0.7	0.0	
	9	Hd.	EI	+0.07	+0.5	−0.1	
	12	T.	EI	+0.03	−0.7	−0.7	R.
	15	Hd.	EI	----	−0.7	−0.7	R.
	16	T.	EI	+0.04	−0.7	−0.7	R.
	17	Hd.	EI	+0.02	−1.8	−1.9	R.
	20	Hd.	EI	+0.07	+0.2	−0.2	
	21	T.	EI	−0.02	−0.4	−0.6	
	22	Hd.	WI	+0.12	−0.6	−0.3	
	25	T.	WI	+0.02	+0.2	+0.4	R.
	26	Hd.	WI	+0.12	−0.7	−0.8	R.
	27	T.	WI	+0.10	−0.9	−0.8	
	28	Hd.	WI	+0.01	−0.5	−0.6	
Oct.	1	T.	WI	+0.07	+0.9	+1.1	
	2	Hd.	WI	+0.02	−0.8	−0.7	R.
	3	T.	WI	----	−1.2	−0.8	R.
	4	T.	WI	−0.03	−0.8	−0.8	R.
	11	Hd.	EII	+0.04	−1.5	−1.2	R.
	12	T.	EII	0.00	+0.4	+0.3	
	14	Hd.	EII	+0.05	−0.8	−1.5	R.
	15	T.	EII	+0.02	−1.6	−0.7	R.
	16	Hd.	EII	+0.05	−0.5	−0.1	
	17	T.	EII	+0.07	−1.6	−2.1	R.
	18	Hd.	EII	0.00	+0.1	+0.9	
	20	T.	EII	+0.03	+0.2	+0.1	
	24	Hd.	WII	+0.03	−1.3	−1.0	R.
	25	T.	WII	+0.10	+1.8	+1.3	
	26	Hd.	WII	+0.10	−1.5	−1.1	R.
	31	Hd.	WII	+0.07	+0.8	+0.9	
Nov.	1	Hd.	WII	+0.05	−0.5	−0.6	
	6	T.	WII	+0.01	−1.7	−1.4	R.
	20	T.	WII	+0.09	−0.1	−1.1	R.
Mean		1910.76		+0.051	+0.05	+0.09	
Corr				−0.081	+0.02	+0.02	

44 H. Cephei

h m s 1 4 ---- ° ′ ″ +79 11 41.4

					″ A	″ B	
1909							
Oct.	30	Hd.–T.	WI	----		---	R.
	30	Hd.–T.	WI	----	43.1	---	
	31	Hd.–T.	WI	----	42.8	---	R.
	31	Hd.–T.	WI	----	42.1	---	

			h m s	° ′	″ A	″ B	
1909							
Nov. 11	Hd.–U.	WI	----		42.8	---	R.
11	Hd.–U.	WI	----		42.7	---	
12	Hd.–T.	WI	----		42.7	---	R
12	Hd.–T.	WI	----		42.8	---	
13	Hd.–T.	EI	----		42.0	---	R
13	Hd.–T.	EI	----		42.7	---	
19	Hd.–T.	EI	----		42.2	---	R.
19	Hd.–T.	EI	----		42.4	---	
20	Hd.–T.	EI	----		41.5	---	R
20	Hd.–T.	EI	----		42.6	---	
22	Hd.–T.	EI	----		42.0	---	R.
22	Hd.–T.	EI	----		43.3	---	
27	Hd.–T.	EI	----		41.4	---	R.
27	Hd.–T.	EI	----		42.0	---	
Mean	1909.87		1 4	+79 11	42.63	---	
Corr			----		+0.08	---	

β Andromedæ

			h m s	° ′	″ A	″ B	
			1 4 ----	+35 8	-----	---	
1909							
Feb. 11	*Hd.–Pk.*	*EI*	----		*−0.4*	*−0.4*	
18	*Hd.*	*EI*	----		*−0.9*	---	
Mar. 5	*U.–Pk.*	*WI*	----		*−1.3*	*+0.6*	
23	*Hd.–Pk.*	*WI*	----		*−1.5*	*+0.1*	
26	*U.–T.*	*EI*	----		*−1.3*	*−0.3*	
May 11	*U.–T.*	*EI*	----		*+1.1*	*+0.5*	
17	*Hd.–Pk.*	*WI*	----		*−1.1*	*−0.4*	
23	*Hd.–T.*	*WI*	----		*−0.9*	*−2.1*	

υ Piscium

			h m s	° ′	″ A	″ B	
			1 14 30.986	+26 47	28.49,	28.48	
1909							
Sept. 24	U.	WI	0.00		−1.6	---	
25	Hd.	WI	−0.02		+0.4	---	
28	Hd.	WI	−0.02		+0.5	---	
29	U.	WI	+0.01		+0.2	---	
30	T.	WI	0.00		+0.7	---	
Oct. 1	Hd.	WI	+0.05		+0.6	---	
2	T.	WI	+0.03		+0.3	---	
4	Hd.	EI	+0.02		−0.9	---	
5	T.	EI	−0.01		+0.5	---	
6	U.	EI	+0.07		+1.6	---	
7	Hd.	EI	+0.06		−0.6	---	
8	T.	EI	+0.02		−0.4	---	
9	U.	EI	+0.01		+1.6	---	
12	U.	EI	0.00		−0.4	---	
13	Hd.	EI	−0.01		−0.4	---	
16	T.	EI	0.00		−0.9	---	
19	Hd.	EI	+0.02		−0.1	---	
20	T.	WI	+0.05		−0.1	---	
22	T.	WI	----		0.0	---	
31	Hd.–T.	WI	----		+0.4	---	R.
31	Hd.–T.	WI	----		0.0	---	
Nov. 11	Hd.–U.	WI	----		+0.3	---	R.
11	Hd.–U.	WI	----		−1.3	---	
12	Hd.–T.	WI	----		−0.7	---	R.
12	Hd.–T.	WI	----		0.0	---	
19	Hd.–T.	EI	----		+0.9	---	R.
19	Hd.–T.	EI	----		−0.6	---	
20	Hd.–T.	EI	----		−0.4	---	R.
20	Hd.–T.	EI	----		−0.3	---	
22	Hd.–T.	EI	----		−0.4	---	R.
22	Hd.–T.	EI	----		−1.7	---	
27	Hd.–T.	EI	----		+0.9	---	R.
27	Hd.–T.	EI	----		+0.2	---	
1910							
Sept. 7	T.	EI	+0.05		−0.2	−0.4	
9	Hd.	EI	−0.03		−0.1	−0.2	
12	T.	EI	+0.08		−0.3	−1.5	R.
15	Hd.	EI	+0.10		−1.3	−1.6	R.
16	T.	EI	+0.07		+0.9	+0.5	R.

			s	″ A	″ B	
1910						
Sept. 17	Hd.	EI	+0.06	−0.8	−1.1	R.
20	Hd.	EI	+0.01	−0.7	−0.3	
21	T.	EI	+0.04	−0.1	+0.3	
22	Hd.	WI	+0.04	+0.8	+0.6	
26	Hd.	WI	+0.01	−1.7	−1.5	R.
27	T.	WI	0.00	−0.1	−0.7	
28	Hd.	WI	+0.02	+0.3	+1.0	
Oct. 1	T.	WI	+0.04	+1.1	+1.3	
2	Hd.	WI	+0.06	+0.4	+1.3	R.
3	T.	WI	----	−0.8	−0.1	R.
4	T.	WI	−0.01	−0.8	−0.6	R.
11	Hd.	EII	+0.02	−0.4	+0.3	R.
12	T.	EII	+0.02	+0.1	+0.1	
14	Hd.	EII	+0.03	−0.2	−0.7	R.
15	T.	EII	+0.01	−0.6	−0.4	R.
16	Hd.	EII	+0.03	−0.7	−0.3	
17	T.	EII	+0.02	−0.9	−1.1	R.
18	Hd.	EII	0.00	−0.4	−0.9	
20	T.	EII	+0.06	+0.2	−0.2	
24	Hd.	WII	----	−0.2	−1.0	R.
25	T.	WII	+0.02	+0.7	+0.4	
26	Hd.	WII	+0.03	−0.5	−0.9	R.
31	Hd.	WII	+0.05	+0.9	+1.1	
Nov. 1	Hd.	WII	+0.04	−0.6	−0.4	
6	T.	WII	+0.07	+0.7	+0.6	R.
8	T.	WII	+0.04	−1.0	−1.2	
20	T.	WII	+0.05	−0.5	−1.0	R.
Mean	1910.24–1910.16 / 1910.77		+0.021	−0.06	+0.01	
Corr			−0.081	+0.04	+0.04	

θ Ceti

			h m s	° ′	″ A	″ B	
			1 19 31.459	−8 38	51.15,	51.27	
1909							
Sept. 24	U.	WI	+0.09		−1.6	---	
25	Hd.	WI	+0.06		+0.4	---	
28	Hd.	WI	+0.04		+0.2	---	
29	U.	WI	+0.09		−0.1	---	
30	T.	WI	+0.03		+1.4	---	
Oct. 1	Hd.	WI	+0.11		+0.4	---	
2	T.	WI	+0.02		0.0	---	
4	Hd.	EI	+0.06		0.0	---	
5	T.	EI	+0.03		+0.1	---	
6	U.	EI	+0.02		−0.1	---	
7	Hd.	EI	+0.08		+0.7	---	
8	T.	EI	+0.02		0.0	---	
9	U.	EI	+0.06		−0.1	---	
12	U.	EI	+0.06		−1.4	---	
13	Hd.	EI	+0.06		+0.7	---	
16	T.	EI	+0.02		−0.6	---	
19	Hd.	EI	+0.06		+0.1	---	
20	T.	WI	+0.07		−0.4	---	
22	T.	WI	+0.07		+1.2	---	
1910							
Sept. 7	T.	EI	+0.07		+0.1	−0.5	
9	Hd.	EI	+0.06		+0.4	−0.2	
12	T.	EI	+0.05		+0.6	+0.2	R.
15	Hd.	EI	+0.03		−0.7	−0.2	R.
16	T.	EI	+0.09		−0.3	+0.2	R.
17	Hd.	EI	+0.06		−0.2	−0.4	R.
20	Hd.	EI	+0.07		−0.3	−1.1	
21	T.	EI	+0.07		+0.7	+0.2	
22	Hd.	WI	+0.04		0.0	+0.2	
25	T.	WI	+0.03		+0.1	−0.2	R.
26	Hd.	WI	+0.07		−1.0	−1.1	R.
27	T.	WI	+0.05		−0.5	−1.4	
28	Hd.	WI	+0.06		+0.1	+0.1	
Oct. 1	T.	WI	+0.03		+1.3	+1.6	
2	Hd.	WI	+0.02		−0.9	−1.2	R.
3	T.	WI	----		−0.1	−0.3	R.
4	T.	WI	+0.09		−0.4	−0.2	R.
5	Hd.	EI	+0.10		+0.2	−0.6	R.
10	T.	EI	+0.01		−0.5	−0.2	R.

1910				s	″ A	″ B	
Oct.	11	Hd.	EII	+0.09	−1.8	−1.3	R.
	12	T.	EII	+0.10	+0.2	+0.2	
	14	Hd.	EII	+0.06	−0.6	−1.6	R.
	15	T.	EII	+0.11	−1.3	−1.5	R.
	16	Hd.	EII	+0.09	+0.4	+0.4	
	17	T.	EII	+0.06	−1.0	−1.7	R.
	18	Hd.	EII	+0.08	+0.2	+0.6	
	20	T.	EII	+0.07	+1.4	+1.4	
	22	T.	EII	−0.01	+0.2	−0.6	
	25	T.	WII	+0.05	+0.9	+0.2	
	26	Hd.	WII	+0.06	−1.0	−0.5	R.
	31	Hd.	WII	+0.12	+1.2	+0.7	
Nov.	1	Hd.	WII	+0.06	+0.1	+0.1	
	6	T.	WII	+0.03	−1.0	−0.7	R.
	8	T.	WII	+0.08	−0.2	0.0	
	20	T.	WII	+0.08	−0.7	−1.0	R.
	26	Hd.	WII	+0.03	---	---	
Mean		1910.26–1910.24		+0.059	+0.20	+0.11	
		1910.77					
Corr				−0.081	+0.02	+0.02	

38 Cassiopeiæ

h m s 1 24 30.914 ° ′ ″ +69 48 6.63 ″ ---

1909				s	″ A	″ B	
Sept.	24	U.	WI	+0.07	−1.3	---	
	25	Hd.	WI	+0.10	+0.3	---	
	28	Hd.	WI	+0.15	+0.1	---	
	29	U.	WI	−0.02	−0.2	---	
	30	T.	WI	+0.05	+1.1	---	
Oct.	1	Hd.	WI	+0.14	+0.1	---	
	2	T.	WII	+0.06	−0.4	---	
	4	Hd.	EI	+0.01	−0.6	---	
	5	T.	EI	+0.07	+0.2	---	
	6	U.	EI	+0.11	+0.7	---	
	7	Hd.	EI	+0.17	−0.7	---	
	8	T.	EI	+0.03	+0.1	---	
	9	U.	EI	−0.05	0.0	---	
	12	U.	EI	+0.01	+0.1	---	
	13	Hd.	EI	+0.02	−1.1	---	
	16	T.	EI	+0.03	---	---	
	19	Hd.	EI	+0.12	0.0	---	
	20	T.	WI	+0.01	−0.2	---	
	22	T.	WI	+0.11	−0.7	---	
Mean		1909.76–1909.76		+0.063	−0.14	---	
Corr				−0.081	+0.07	---	

α Ursæ Minoris

h m s 1 26 55.94 ° ′ ″ +88 49 33.56, 33.56 ″ B

1909				s	″ A	″ B	
Feb.	*11*	*Hd.–Pk.*	*EI*	----	*−0.3*	*+0.9*	
	17	*U.–Pk.*	*EI*	*−0.94*	*+1.3*	*+0.4*	
	18	*Hd.*	*EI*	*−1.96*	*+0.6*	---	
Mar.	*5*	*U.–Pk.*	*WI*	*−0.96*	*−2.0*	*+0.7*	
	17	*Hd.–T.*	*WI*	*−1.78*	*−0.4*	*−0.5*	
	18	*U.–Pk.*	*WI*	*−1.08*	*−1.8*	*−0.3*	
	20	*Hd.–T.*	*WI*	*−0.08*	*−0.4*	*+1.2*	
	22	*U.–T.*	*WI*	----	*−1.7*	*−1.4*	
	23	*Hd.–Pk.*	*WI*	*−0.88*	*−0.4*	*−1.2*	
	26	*U.–T.*	*EI*	----	*−2.1*	*−2.2*	
	29	*U.–Pk.*	*EI*	*+0.31*	*−2.0*	*+0.1*	
Apr.	*1*	*Hd.–Pk.*	*EI*	*+0.71*	*−2.2*	*−1.6*	
May	*5*	*Hd.–Pk.*	*EI*	*+1.28*	*−1.8*	*+0.1*	
	6	*Hd.–Pk.*	*EI*	*−0.64*	*−2.2*	*+0.7*	
	11	*U.–T.*	*EI*	*+1.02*	*−0.5*	*−2.2*	
	14	*Hd.–T.*	*WI*	*+1.36*	*−0.8*	*−0.8*	

1909				s	″ A	″ B	
May	*16*	*U.–T.*	*WI*	----	*−0.7*	*+0.1*	
	17	*Hd.–Pk.*	*WI*	*+0.85*	*−1.3*	*−1.8*	
	23	*Hd.–T.*	*WI*	*+1.38*	*−1.9*	*−2.4*	
Oct.	30	Hd.–T.	WI	----	−0.1	---	R.
	30	Hd.–T.	WI	----	+0.7	---	
	31	Hd.–T.	WI	----	−0.2	---	R.
	31	Hd.–T.	WI	----	−0.8	---	
Nov.	11	Hd.–U.	WI	----	−0.2	---	R.
	11	Hd.–U.	WI	----	+0.5	---	
	12	Hd.–T.	WI	----	−1.5	---	R.
	12	Hd.–T.	WI	----	−0.2	---	
	19	Hd.–T.	EI	----	−1.6	---	R.
	19	Hd.–T.	EI	----	+0.8	---	
	20	Hd.–T.	EI	----	−1.2	---	R.
	20	Hd.–T.	EI	----	+0.4	---	
	22	Hd.–T.	EI	----	−0.4	---	R.
	22	Hd.–T.	EI	----	+0.8	---	
	27	Hd.–T.	EI	----	−0.1	---	R.
	27	Hd.–T.	EI	----	−0.1	---	
Dec.	5	U.	EI	+2.78	---	---	
	6	Hd.	EI	+0.25	−0.2	---	
	8	U.	EI	+3.34	−0.5	---	
	15	Hd.	EI	+0.89	0.0	---	
	16	U.	EI	+3.18	+0.6	---	
	18	Hd.	EI	+0.64	0.0	---	
	20	Hd.	EI	+2.64	+0.2	---	
	21	U.	EI	+2.04	−0.1	---	
	30	Hd.	WI	+2.64	0.0	---	
1910							
Jan.	4	Hd.	WI	+0.85	−0.4	---	
	7	T.	WI	−0.49	−0.8	---	
	8	U.	WI	+1.48	+0.3	---	
	9	Hd.	WI	+1.16	+0.9	---	
	10	T.	WI	+0.67	+0.2	---	
	16	U.	WI	+3.31	−0.2	---	
Sept.	7	T.	EI	−0.72	+0.6	+0.8	
	9	Hd.	EI	+2.73	−1.2	−2.6	
	12	T.	EI	+3.11	−0.7	−0.2	R.
	15	Hd.	EI	+3.66	−1.0	−0.5	R.
	16	T.	EI	+2.21	−0.6	0.0	R.
	17	Hd.	EI	+1.65	+0.1	+1.3	R.
	20	Hd.	EI	+0.44	+0.3	−0.3	
	21	T.	EI	−2.67	−1.0	−0.6	
	22	Hd.	WI	+1.73	+0.1	+0.4	
	25	T.	WI	−2.39	−1.7	−1.6	R.
	26	Hd.	WI	+0.83	−0.2	+0.1	R.
	27	T.	WI	+1.37	−0.1	−0.3	
	28	Hd.	WI	+1.12	−0.6	−0.3	
Oct.	1	T.	WI	−1.31	−1.2	−1.2	
	2	Hd.	WI	−1.96	−0.8	−0.2	R.
	3	T.	WI	----	+0.2	+0.6	R.
	4	T.	WI	−4.56	+0.5	+0.5	R.
	10	T.	EI	+2.12	−0.5	+0.2	R.
	11	Hd.	EII	+3.76	−0.3	−0.4	R.
	12	T.	EII	−0.27	+0.1	+0.5	
	14	Hd.	EII	+0.24	−1.0	−0.9	R.
	15	T.	EII	+1.28	+1.1	+1.1	R.
	16	Hd.	EII	+3.68	−0.4	−0.1	
	17	T.	EII	+1.90	−1.3	−1.3	R.
	18	Hd.	EII	+1.04	−0.1	+0.2	
	20	T.	EII	−0.65	−1.0	−0.4	
	22	T.	EII	+0.11	+0.9	+0.4	
	24	Hd.	WII	−0.16	−0.7	+0.1	R.
	25	T.	WII	+0.63	−1.7	−2.3	
	26	Hd.	WII	−1.61	−0.1	+0.8	R.
	31	Hd.	WII	+3.36	−0.1	−0.3	
Nov.	6	T.	WII	−1.95	+0.3	+1.0	R.
	8	T.	WII	+2.27	+0.2	−0.4	
	20	T.	WII	−1.19	−0.3	−0.4	R.
	26	Hd.	WII	+0.45	---	---	
Mean		1910.40–1910.29		+1.21	−0.08	−0.41	
		1910.76					
Corr				−0.08	+0.09	+0.09	

α Ursæ Minoris s. p.

h m s: 1 26 55.80 — ° ′ ″: +88 49 33.56, 33.56

					A	B	
1909							
Mar.	15	Hd.–T.	WI	+0.07	+1.3	−1.3	
	17	Hd.–T.	WI	−0.31	+0.9	−0.3	
	18	U.–T.	WI	−0.72	−0.1	−0.7	
	20	Hd.–T.	WI	−0.74	−0.1	+0.4	
	21	U.–Pk.	WI	+1.41	−0.2	0.0	
	22	Hd.–T.	WI	−0.36	+0.5	+0.3	
	23	U.–Pk.	EI	+0.16	−0.7	+0.1	
	26	U.–Pk.	EI	----	+0.4	−0.3	
	28	U.–Pk.	EI	+0.99	+0.5	+1.2	
	30	U.–Pk.	EI	+1.86	−1.5	−0.6	
	31	Hd.–T.	EI	+0.14	+0.1	−0.4	
Apr.	3	Hd.–T.	EI	−0.70	−0.4	−1.4	
May	5	Hd.–T.	EI	+1.52	+0.1	−0.9	
	6	U.–Pk.	EI	+3.44	−0.1	−0.2	
	9	U.–Pk.	EI	----	−0.1	−1.3	
	11	U.–Pk.	EI	+0.44	−0.7	−0.4	
	12	Hd.–T.	EI	−1.54	−0.1	−0.1	
	13	Hd.–T.	EI	−0.57	+0.4	−1.2	
	14	U.–Pk.	WI	+2.62	+1.8	−0.7	
	15	Hd.–T.	WI	+0.35	+0.2	+0.5	
	16	U.–Pk.	WI	+3.38	0.0	−0.7	
	17	Hd.–T.	WI	−0.24	+0.3	−0.4	
	18	U.–Pk.	WI	+0.58	+0.6	−0.1	
	23	Hd.–T.	WI	−0.65	+0.5	+1.8	
Dec.	*16*	*U.*	*EI*	*+1.93*	*−1.5*	---	
	20	*Hd.*	*EI*	*−0.08*	*−1.1*	---	
	23	*Hd.*	*EI*	*+0.86*	*−1.3*	---	
1910							
Jan.	7	T.	WI	+0.68	−0.2	---	
	8	U.	WI	+1.87	−1.2	---	
	9	Hd.	WI	+0.62	+0.4	---	
	10	T.	WI	−0.23	−0.6	---	
Sept.	*7*	*T.*	*EI*	----	*−0.9*	*+0.2*	
	8	*Hd.*	*EI*	----	*+0.8*	*+1.0*	
	15	*Hd.*	*EI*	----	*+0.6*	*+0.1*	
	16	*T.*	*EI*	----	*−0.1*	*−0.1*	
	26	*Hd.*	*WI*	----	*+1.2*	*+1.0*	
	29	*T.*	*WI*	----	*+1.0*	*+0.6*	
Oct.	*1*	*Hd.*	*WI*	----	*+0.5*	*+0.3*	
	12	*T.*	*EII*	----	*+0.3*	*+0.4*	
	13	*Hd.*	*EII*	----	*+0.2*	*−0.6*	
	14	*T.*	*EII*	----	*+0.3*	*−0.4*	
	26	*Hd.*	*WII*	----	*+1.1*	*+0.7*	
	27	*Hd.*	*WII*	----	*+0.9*	*0.0*	
	28	*T.*	*WII*	----	*+0.5*	*+0.4*	
Nov.	*4*	*T.*	*WII*	----	*+0.8*	*+1.2*	
	10	*Hd.*	*WII*	----	*+0.3*	*−0.4*	
Mean. 1909.41–1909.40 1909.30				+0.54	+0.07	−0.28	
Corr				−0.08	−0.09	−0.09	

40 Cassiopeiæ

h m s: 1 31 18.196 — ° ′ ″: +72 34 54.44 — ″: ---

					A	B	
1909							
Sept.	24	U.	WI	−0.09	−1.5	---	
	25	Hd.	WI	−0.01	−0.4	---	
	28	Hd.	WI	+0.07	−1.0	---	
	29	U.	WI	+0.05	+0.5	---	
	30	T.	WI	−0.14	−0.7	---	
Oct.	1	Hd.	WI	−0.03	−0.1	---	
	2	T.	WI	−0.07	+0.2	---	
	4	Hd.	EI	−0.01	−0.7	---	
	5	T.	EI	−0.05	+0.1	---	
	6	U.	EI	+0.16	−0.3	---	
	7	Hd.	EI	+0.08	+0.3	---	
	8	T.	EI	0.00	−0.1	---	
	9	U.	EI	+0.11	−0.4	---	
	12	U.	EI	−0.03	−0.5	---	
	13	Hd.	EI	−0.08	+0.2	---	
	16	T.	EI	−0.06	---	---	
1909				s	″ A	″ B	
Oct.	19	Hd.	EI	+0.03	−0.4	---	
	20	T.	WI	+0.01	−0.6	---	
	22	T.	WI	+0.15	+0.1	---	
Mean. 1909.76–1909.76				+0.005	−0.29	---	
Corr				−0.081	+0.07	---	

ν Piscium

h m s: 1 36 44.779 — ° ′ ″: +5 1 56.97, 56.97

					A	B	
1910							
Sept.	7	T.	EI	+0.03	+0.7	+0.6	
	9	Hd.	EI	+0.01	+0.7	−0.2	
	12	T.	EI	+0.01	+0.2	+0.6	R.
	15	Hd.	EI	+0.04	−0.9	−1.1	R.
	16	T.	EI	+0.03	−0.9	−0.6	R.
	17	Hd.	EI	−0.03	−0.5	+0.4	R.
	20	Hd.	EI	+0.05	+0.4	+0.3	
	21	T.	EI	+0.05	+0.2	+0.4	
	22	Hd.	WI	0.00	+0.4	+0.5	
	25	T.	WI	+0.05	−0.4	−1.2	R.
	26	Hd.	WI	−0.01	−0.6	−0.8	R.
	27	T.	WI	+0.05	−1.2	−1.3	
	28	Hd.	WI	−0.01	+0.3	+0.5	
Oct.	1	T.	WI	+0.03	+1.1	+1.0	
	2	Hd.	WI	+0.01	−0.5	−0.5	R.
	4	T.	WI	+0.03	−0.6	+0.2	R.
	5	Hd.	EI	+0.02	−0.7	−0.6	R.
	10	T.	EI	+0.04	−0.3	+0.2	R.
	11	Hd.	EII	−0.02	−1.0	−0.5	R.
	12	T.	EII	−0.02	−0.1	0.0	
	14	Hd.	EII	+0.03	−0.8	−1.7	R.
	15	T.	EII	+0.01	−1.3	−1.2	R.
	16	Hd.	EII	+0.04	−0.1	+0.1	
	17	T.	EII	+0.06	+0.2	−0.1	R.
	18	Hd.	EII	+0.03	−0.2	+0.3	
	20	T.	EII	+0.05	+0.4	+0.7	
	22	T.	EII	+0.04	−0.7	−0.6	
	24	Hd.	WII	+0.03	−0.6	−1.0	R.
	25	T.	WII	+0.06	+0.9	+0.5	
	26	Hd.	WII	−0.01	−0.8	−0.3	R.
	31	Hd.	WII	+0.06	+0.3	+0.6	
Nov.	1	Hd.	WII	−0.01	−0.2	+0.1	
	6	T.	WII	+0.06	0.0	−0.6	R.
	8	T.	WII	+0.02	−0.1	−0.5	
	20	T.	WII	+0.06	−0.1	−0.4	R.
	26	Hd.	WII	+0.03	---	---	
Mean. 1910.78–1910.77				+0.028	+0.16	+0.18	
Corr				−0.081	+0.03	+0.03	

φ Persei

h m s: 1 38 ---- — ° ′ ″: +50 14 8.58 — ″: ---

					A	B	
1909							
Oct.	30	Hd.–T.	WI	----	[−2.2]	---	R.
	30	Hd.–T.	WI	----	+0.3	---	
	31	Hd.–T.	WI	----	−1.0	---	R.
	31	Hd.–T.	WI	----	+0.1	---	
Nov.	11	Hd.–U.	WI	----	−0.9	---	R.
	11	Hd.–U.	WI	----	+0.2	---	
	19	Hd.–T.	EI	----	−0.6	---	R.
	19	Hd.–T.	EI	----	+0.8	---	
	20	Hd.–T.	EI	----	+1.1	---	R.
	20	Hd.–T.	EI	----	+0.3	---	
	22	Hd.–T.	EI	----	+0.1	---	R.
	22	Hd.–T.	EI	----	+0.6	---	
	27	Hd.–T.	EI	----	−0.1	---	R.
	27	Hd.–T.	EI	----	−0.8	---	
Mean 1909.87				----	+0.21	---	
Corr				----	+0.06	---	

χ Ceti

			h	m	s	°	′	″ A	″ B	
1910										
Sept. 7	T.	EI	1	45	9.89	−11	7	51.8	51.8	
9	Hd.	EI			9.89			51.9	52.5	
12	T.	EI			9.87			52.8	52.7	R.
15	Hd.	EI			9.90			53.9	54.5	R.
17	Hd.	EI			9.82			53.9	53.4	R.
20	Hd.	EI			9.84			52.8	53.2	
21	T.	EI			9.84			51.4	51.5	
22	Hd.	WI			9.84			52.5	52.8	
25	T.	WI			9.87			52.3	51.7	R.
26	Hd.	WI			9.87			53.8	53.5	R.
27	T.	WI			9.89			52.5	52.8	
28	Hd.	WI			9.87			52.6	52.8	
Oct. 1	T.	WI			9.91			51.0	51.4	
2	Hd.	WI			9.84			53.1	52.6	R.
3	T.	WI			----			53.2	52.6	R.
4	T.	WI			9.85			55.1	54.6	R.
11	Hd.	EII			9.87			54.2	53.8	R.
12	T.	EII			9.86			52.7	52.8	
14	Hd.	EII			9.82			53.4	53.9	R.
15	T.	EII			9.88			53.4	53.3	R.
16	Hd.	EII			9.90			52.7	52.4	
17	T.	EII			9.89			53.8	54.2	R.
18	Hd.	EII			9.87			52.3	51.8	
20	T.	EII			9.84			52.6	52.6	
24	Hd.	WII			9.84			53.9	54.2	R.
25	T.	WII			9.86			51.5	52.0	
26	Hd.	WII			9.87			53.8	53.6	R.
31	Hd.	WII			9.92			51.5	51.7	
Nov. 1	Hd.	WII			9.89			53.1	53.2	
6	T.	WII			9.82			52.5	52.2	R.
8	T.	WII			9.84			53.0	52.7	
20	T.	WII			9.82			52.6	52.8	R.
Mean	1910.77		1	45	9.872	−11	7	52.24	52.38	
Corr					−0.081			+0.02	+0.02	

β Arietis

			h	m	s	°	′	″ A	″ B	
			1	49	----	+20	22	6.32	---	
1909										
Feb. 11	*Hd.–Pk.*	*EI*			----			*+0.1*	*0.0*	
17	*U.–Pk.*	*EI*			----			---	*−0.1*	
18	*Hd.*	*EI*			----			*0.0*	---	
Mar. 5	*U.–Pk.*	*WI*			----			*−0.4*	*+0.8*	
23	*Hd.–Pk.*	*WI*			----			*+0.2*	*−1.4*	
May 17	*Hd.–Pk.*	*WI*			----			---	*−0.8*	
Nov. 12	Hd.–T.	WI			----			−0.2	---	R.
12	Hd.–T.	WI			----			+0.9	---	
19	Hd.–T.	EI			----			−0.2	---	R.
19	Hd.–T.	EI			----			−0.2	---	
20	Hd.–T.	EI			----			+0.1	---	R.
20	Hd.–T.	EI			----			+0.7	---	
22	Hd.–T.	EI			----			−0.3	---	R.
22	Hd.–T.	EI			----			−0.1	---	
27	Hd.–T.	EI			----			0.0	---	R.
27	Hd.–T.	EI			----			0.0	---	
Mean	1909.89				----			+0.26	---	
Corr					----			+0.04	---	

50 Cassiopeiæ

			h	m	s	°	′	″ A	″ B	
			1	55	43.612	+71	59	10.66,	10.66	
1910										
Sept. 7	T.	EI			+0.02			+1.2	+1.1	
9	Hd.	EI			+0.20			+1.0	+1.2	
12	T.	EI			+0.14			−0.8	−0.6	R.
15	Hd.	EI			+0.32			0.0	−0.2	R.
16	T.	EI			+0.04			0.0	+0.4	R.
17	Hd.	EI			+0.03			−0.2	+0.2	R.
20	Hd.	EI			+0.06			+0.2	−0.1	
21	T.	EI			−0.04			+0.3	+0.5	
22	Hd.	WI			+0.19			−0.3	−0.4	
25	T.	WI			0.00			+0.3	0.0	R.
26	Hd.	WI			+0.15			+0.3	0.0	R.
27	T.	WI			+0.08			+1.0	+0.8	
28	Hd.	WI			−0.03			+0.1	+0.4	
Oct. 1	T.	WI			−0.03			−0.4	0.0	
2	Hd.	WI			−0.08			−0.6	−0.2	R.
3	T.	WI			----			+0.6	+0.5	R.
4	T.	WI			−0.13			−0.1	+0.1	R.
11	Hd.	EII			+0.25			+0.6	+0.9	R.
12	T.	EII			−0.02			+0.3	+0.5	
14	Hd.	EII			+0.08			−0.2	−1.0	R.
15	T.	EII			+0.16			+0.7	+1.2	R.
16	Hd.	EII			+0.16			+0.1	+0.1	
17	T.	EII			+0.07			−0.2	−0.4	R.
18	Hd.	EII			−0.08			+0.3	−0.3	
20	T.	EII			+0.13			+0.1	−0.2	
24	Hd.	WII			+0.08			+0.4	+0.5	R.
25	T.	WII			+0.03			+0.1	−0.5	
26	Hd.	WII			+0.02			+0.5	+0.8	R.
31	Hd.	WII			+0.25			+0.4	+0.3	
Nov. 1	Hd.	WII			0.00			+1.1	+1.4	
6	T.	WII			−0.01			+0.2	+0.7	R.
8	T.	WII			+0.14			0.0	+0.5	
20	T.	WII			+0.01			+1.0	+1.0	R.
Mean	1910.77				+0.066			+0.34	+0.33	
Corr					−0.081			+0.07	+0.07	

50 Cassiopeiæ s. p.

			h	m	s	°	′	″ A	″ B	
			1	55	43.625	+71	59	10.63,	10.63	
1909										
May 5	Hd.–T.	EI			+0.11			+0.3	0.0	
6	U.–Pk.	EI			+0.15			+1.5	−1.4	
9	U.–Pk.	EI			−0.15			−0.3	−0.9	
11	U.–Pk.	EI			+0.02			+1.2	+1.4	
12	Hd.–T.	EI			+0.19			+1.5	+0.2	
13	Hd.–T.	EI			+0.08			−0.2	−1.5	
14	U.–Pk.	WI			+0.07			+1.5	+1.7	
15	Hd.–T.	WI			−0.09			+0.9	+1.5	
16	U.–Pk.	WI			0.00			+1.0	−0.3	
17	Hd.–T.	WI			+0.07			+0.4	−0.9	
18	U.–Pk.	WI			+0.15			−0.8	+1.6	
23	Hd.–T.	WI			+0.19			+0.9	+1.7	
Mean	1909.36				+0.066			+0.66	+0.26	
Corr					−0.081			−0.14	−0.14	

γ Andromedæ *pr.*

			h	m	s	°	′	″ A	″ B	
			1	58	----	+41	53	---	---	
1909										
Mar. 17	*Hd.–T.*	*WI*			----			---	*−1.0*	
18	*U.–Pk.*	*WI*			----			---	*−0.6*	
20	*Hd.–T.*	*WI*			----			*+1.4*	*+0.4*	
22	*U.–T.*	*WI*			----			*−0.2*	*−1.2*	
23	*Hd.–Pk.*	*WI*			----			*−0.1*	*−0.8*	
26	*U.–T.*	*EI*			----			*−0.3*	*+0.7*	
29	*U.–Pk.*	*EI*			----			*+0.1*	*−0.7*	
Apr. 1	*Hd.–Pk.*	*EI*			----			*−0.5*	*+0.4*	
May 11	*U.–T.*	*EI*			----			*−1.7*	*−1.8*	
17	*Hd.–Pk.*	*WI*			----			*+0.3*	*−0.4*	
23	*Hd.–T.*	*WI*			----			*−0.2*	*−2.2*	

α Arietis

			h	m	s	°	′	″ A	″ B	
			2	2	----	+23	2	---	---	
1909										
Feb. 11	*Hd.–Pk.*	*EI*			----			*−0.1*	*−0.7*	
17	*U.–Pk.*	*EI*			----			*+0.4*	*+0.5*	
18	*Hd.*	*EI*			----			*−1.2*	---	
Mar. 5	*U.–Pk.*	*WI*			----			*−0.4*	*+0.3*	
17	*Hd.–T.*	*WI*			----			*−1.1*	*−0.9*	
18	*U.–Pk.*	*WI*			----			*+0.9*	*+0.6*	
20	*Hd.–T.*	*WI*			----			*0.0*	*+0.4*	
23	*Hd.–Pk.*	*WI*			----			*−0.6*	*−1.1*	
29	*U.–Pk.*	*EI*			----			---	*−0.5*	
May 17	*Hd.–Pk.*	*WI*			----			*−1.1*	*−0.3*	

ι Cassiopeiæ [1]

h m s 2 21 38.203 | ° ′ ″ +66 59 54.17 | ″ A 17, ″ B 54.17

1910				A	B	
Sept. 7	T.	EI	+0.02	+0.6	+0.3	
9	Hd.	EI	+0.07	+0.5	+0.5	
12	T.	EI	0.00	−0.4	−0.1	R.
16	T.	EI	−0.09	+0.5	+1.0	R.
17	Hd.	EI	−0.11	−0.1	−0.3	R.
20	Hd.	EI	−0.16	+0.8	+0.7	
21	T.	EI	−0.09	+0.5	+0.2	
22	Hd.	WI	−0.08	+0.7	+0.4	
25	T.	WI	−0.19	+0.2	0.0	R.
26	Hd.	WI	+0.07	+0.6	+0.4	R.
27	T.	WI	−0.09	+0.3	+0.3	
28	Hd.	WI	−0.19	+1.2	+0.9	
Oct. 1	T.	WI	−0.29	−0.8	−0.9	
2	Hd.	WI	−0.27	−0.4	−0.1	R.
3	T.	WI	----	+0.1	+0.3	R.
4	T.	WI	−0.15	−0.9	−0.5	R.
11	Hd.	EII	+0.11	+0.3	−0.2	R.
12	T.	EII	−0.09	+0.9	+0.6	
14	Hd.	EII	−0.09	+1.0	−0.1	R.
15	T.	EII	+0.02	+0.8	+1.1	R.
16	Hd.	EII	0.00	+0.5	+0.6	
17	T.	EII	−0.08	+0.1	−0.4	R.
18	Hd.	EII	−0.25	+0.8	+0.4	
20	T.	EII	−0.03	+0.4	−0.4	
25	T.	WII	−0.20	+0.3	+0.1	
26	Hd.	WII	−0.14	+0.8	+1.2	R.
31	Hd.	WII	+0.03	+0.2	+0.9	
Nov. 1	Hd.	WII	−0.16	+0.3	+1.1	
6	T.	WII	−0.12	+0.5	+0.9	R.
8	T.	WII	−0.03	+0.1	−0.1	
20	T.	WII	−0.07	+0.5	+0.2	R.
Mean		1910.77	−0.096	+0.46	+0.35	
Corr			−0.081	+0.06	+0.06	

36 H. Cassiopeiæ

h m s 2 29 27.178 | ° ′ ″ +72 25 31.18 | ′ A 18, ′ B 31.18

1910				A	B	
Sept. 7	T.	EI	+0.04	+0.6	+0.5	
9	Hd.	EI	+0.15	0.0	−0.4	
12	T.	EI	+0.09	−0.9	−0.8	R.
15	Hd.	EI	+0.24	−1.0	−1.1	R.
16	T.	EI	+0.22	+0.5	+0.7	R.
17	Hd.	EI	+0.04	−0.3	+0.5	R.
20	Hd.	EI	−0.12	+0.6	+0.6	
21	T.	EI	−0.11	+0.2	−0.1	
22	Hd.	WI	−0.01	−0.5	0.0	
25	T.	WI	−0.15	0.0	−0.8	R.
26	Hd.	WI	+0.04	+0.3	+0.3	R.
27	T.	WI	+0.16	−0.3	−0.5	
28	Hd.	WI	−0.22	−0.2	+0.5	
Oct. 1	T.	WI	+0.04	0.0	+0.3	
2	Hd.	WI	−0.26	−0.1	−0.3	R.
11	Hd.	EII	+0.20	−0.3	+0.2	R.
12	T.	EII	0.00	0.0	−0.2	
14	Hd.	EII	−0.08	+0.5	−0.2	R.
15	T.	EII	−0.06	+0.4	+1.2	R.
16	Hd.	EII	+0.09	−0.1	+0.1	
17	T.	EII	−0.06	+0.4	+0.5	R.
18	Hd.	EII	−0.13	+0.2	0.0	
20	T.	EII	−0.11	+0.2	0.0	
24	Hd.	WII	−0.05	+0.9	+0.9	R.
25	T.	WII	−0.05	−0.2	−0.2	
26	Hd.	WII	−0.12	+0.6	+1.2	R.
31	Hd.	WII	+0.10	+0.2	−0.1	
Nov. 6	T.	WII	−0.07	+1.1	+1.0	R.
8	T.	WII	−0.03	+0.5	+1.2	
20	T.	WII	−0.14	+0.2	−0.5	R.
Mean		1910.76	−0.013	+0.08	+0.11	
Corr			−0.081	+0.07	+0.07	

π Ceti

h m s 2 39 50.292 | ° ′ ″ −14 14 21.93, ″ A 21.93 | ″ B

1910				A	B	
Sept. 7	T.	EI	+0.04	−0.3	−1.0	
9	Hd.	EI	+0.07	+1.0	+0.5	
12	T.	EI	+0.04	0.0	+0.4	R.
15	Hd.	EI	+0.09	−1.1	−1.2	R.
16	T.	EI	+0.10	---	---	R.
17	Hd.	EI	+0.19	−0.4	−0.2	R.
20	Hd.	EI	+0.12	−0.2	−0.6	
21	T.	EI	+0.11	+0.9	+0.9	
22	Hd.	WI	+0.10	0.0	+0.5	
25	T.	WI	+0.06	−0.1	−0.6	R.
26	Hd.	WI	+0.06	0.0	−0.4	R.
27	T.	WI	+0.08	−1.2	−1.2	
28	Hd.	WI	+0.05	+0.1	0.0	
Oct. 1	T.	WI	+0.12	+0.6	+0.9	
2	Hd.	WI	+0.04	−0.4	−0.3	R.
4	T.	WI	+0.04	+0.1	+0.4	R.
11	Hd.	EII	+0.09	−1.6	−1.5	R.
12	T.	EII	+0.15	+0.1	−0.3	
14	Hd.	EII	+0.10	−0.8	−1.4	R.
15	T.	EII	+0.04	−1.8	−1.5	R.
16	Hd.	EII	+0.14	+0.3	+0.1	
17	T.	EII	+0.12	−1.1	−1.4	R.
18	Hd.	EII	+0.11	+0.3	+0.7	
20	T.	EII	+0.07	+0.7	+0.2	
24	Hd.	WII	+0.05	−0.5	−0.8	R.
25	T.	WII	+0.09	−0.5	−0.4	
26	Hd.	WII	+0.09	−1.3	−1.6	R.
31	Hd.	WII	+0.08	+0.3	+0.5	
Nov. 6	T.	WII	+0.09	−0.4	−0.4	R.
8	T.	WII	+0.10	+0.1	−0.2	
20	T.	WII	+0.04	−1.1	−1.0	R.
Mean		1910.76	+0.095	+0.15	+0.04	
Corr			−0.081	+0.01	+0.01	

τ Persei

h m s 2 47 52.163 | ° ′ ″ +52 23 41.23, ″ A 41.23 | ″ B

1910				A	B	
Sept. 7	T.	EI	+0.05	+0.5	+1.3	
9	Hd.	EI	+0.03	−1.0	−0.9	
12	T.	EI	−0.02	−0.5	−0.3	R.
15	Hd.	EI	+0.12	−0.1	−0.3	R.
16	T.	EI	−0.04	+0.3	+0.4	R.
17	Hd.	EI	−0.01	+0.1	+0.1	R.
20	Hd.	EI	−0.10	−0.4	−0.1	
21	T.	EI	−0.01	−0.9	−0.2	
22	Hd.	WI	+0.08	−0.7	−0.2	
25	T.	WI	−0.02	−1.3	−1.2	R.
26	Hd.	WI	+0.06	−0.5	−0.6	R.
27	T.	WI	−0.02	0.0	−0.6	
28	Hd.	WI	−0.06	−0.4	−0.4	
Oct. 1	T.	WI	−0.02	+0.3	+0.4	
2	Hd.	WI	−0.11	−0.8	−1.0	R.
4	T.	WI	−0.05	−0.3	+0.5	R.
11	Hd.	EII	+0.11	−0.1	+0.2	R.
12	T.	EII	+0.02	−0.2	+0.1	
14	Hd.	EII	−0.05	−0.2	−0.7	R.
15	T.	EII	−0.02	−0.4	+0.9	R.
16	Hd.	EII	+0.04	−1.0	−0.7	
17	T.	EII	+0.05	−1.0	−1.3	R.
18	Hd.	EII	−0.04	−0.4	−0.7	
20	T.	EII	+0.01	−0.3	−0.4	
24	Hd.	WII	−0.03	−0.6	−0.1	R.
25	T.	WII	−0.01	−0.4	+0.1	
26	Hd.	WII	−0.09	−1.2	−0.5	R.
31	Hd.	WII	+0.06	+0.1	+0.3	
Nov. 1	Hd.	WII	−0.05	−0.1	+0.3	
6	T.	WII	−0.03	−0.3	+0.3	R.
8	T.	WII	0.00	+0.5	+0.3	
20	T.	WII	+0.10	−0.9	−0.7	R.
Mean		1910.77	−0.001	−0.28	−0.09	
Corr			−0.081	+0.06	+0.06	

[1] Triple; mean of close pair observed.

47 H. Cephei

	h	m	s	°	′	″	″
	2	54	4.712	+79	3	50.90,	50.90

1910					A	B	
Sept. 7	T.	EI		+0.21	+1.0	+0.9	
9	Hd.	EI		+0.28	+0.2	−0.1	
12	T.	EI		−0.01	+0.6	+0.7	R.
15	Hd.	EI		----	+0.1	−0.2	R.
16	T.	EI		+0.31	+0.6	+1.1	R.
17	Hd.	EI		−0.30	−0.3	+0.1	R.
20	Hd.	EI		0.00	+0.4	+0.4	
21	T.	EI		−0.13	−0.5	−0.6	
22	Hd.	WI		+0.17	−0.3	−0.1	
25	T.	WI		−0.22	+0.1	−0.1	R.
26	Hd.	WI		+0.14	+0.1	−0.2	R.
27	T.	WI		+0.12	+0.5	+0.1	
28	Hd.	WI		−0.21	+0.5	−0.1	
Oct. 1	T.	WI		−0.01	−0.2	−0.3	
2	Hd.	WI		−0.55	−0.4	−0.1	R.
4	T.	WI		−0.28	---	---	R.
11	Hd.	EII		+0.20	0.0	+0.1	R.
12	T.	EII		+0.06	−0.7	−0.4	
14	Hd.	EII		+0.05	+0.3	−0.5	R.
15	T.	EII		−0.02	+0.5	+0.6	R.
16	Hd.	EII		+0.13	−0.1	+0.2	
17	T.	EII		+0.01	+0.5	+0.3	R.
20	T.	EII		−0.05	−0.8	−1.0	
22	T.	EII		+0.26	+0.6	+0.1	
24	Hd.	WII		−0.02	−0.1	+0.5	R.
25	T.	WII		−0.07	−1.2	−1.4	
26	Hd.	WII		−0.30	−0.1	+0.4	R.
31	Hd.	WII		+0.23	+1.3	+1.1	
Nov. 1	Hd.	WII		−0.17	+0.7	+0.4	
6	T.	WII		+0.11	−0.2	−0.2	R.
8	T.	WII		−0.01	−0.5	−0.6	
20	T.	WII		−0.19	+0.4	−0.2	R.
Mean----------			1910.77	+0.051	+0.06	−0.09	
Corr----------				−0.081	+0.08	+0.08	

47 H. Cephei s. p.

	h	m	s	°	′	″	″
	2	54	4.726	+79	3	50.88,	50.88

1909					A	B	
May 5	Hd.–T.	EI		−0.13	−0.4	−1.1	
6	U.–Pk.	EI		−0.28	[1][−2.1]	−0.7	
9	U.–Pk.	EI		−0.30	−0.2	−1.1	
11	U.–Pk.	EI		−0.50	+1.2	−0.3	
12	Hd.–T.	EI		+0.01	−0.1	−0.4	
14	U.–Pk.	WI		−0.03	+0.9	+0.4	
15	Hd.–T.	WI		−0.11	−0.1	−0.5	
16	U.–Pk.	WI		+0.14	+0.2	+0.7	
17	Hd.–T.	WI		−0.32	−0.1	+0.4	
18	U.–Pk.	WI		−0.22	+0.8	−0.1	
Mean 1909.36–1909.36				−0.174	+0.24	−0.27	
Corr----------				−0.081	−0.10	−0.10	

δ Arietis

	h	m	s	°	′	″	″
	3	6	28.815	+19	23	12.90,	12.90

1910					A	B	
Sept. 7	T.	EI		+0.06	−0.6	−1.0	
9	Hd.	EI		+0.01	−0.4	−0.4	
12	T.	EI		+0.08	---	---	R.
15	Hd.	EI		----	−2.3	−2.1	R.
16	T.	EI		+0.02	−1.3	−1.4	R.
17	Hd.	EI		+0.02	−0.5	−0.2	R.
20	Hd.	EI		0.00	−0.3	−0.4	
21	T.	EI		0.00	+0.1	+0.2	
22	Hd.	WI		−0.01	−0.1	+0.5	
25	T.	WI		+0.03	−0.8	−0.5	R.
26	Hd.	WI		−0.01	−1.3	−0.9	R.
27	T.	WI		+0.03	−0.4	0.0	
1910				s	″ A	″ B	
Sept. 28	Hd.	WI		+0.02	−0.1	−0.1	
Oct. 1	T.	WI		0.00	+0.9	+0.9	
2	Hd.	WI		−0.01	−0.3	+0.6	R.
4	T.	WI		+0.07	−0.9	+0.1	R.
5	Hd.	EI		−0.01	−1.7	−1.5	R.
10	T.	EI		+0.04	−0.1	−0.4	R.
11	Hd.	EII		+0.04	−1.7	−1.6	R.
12	T.	EII		+0.05	−0.9	−0.6	
14	Hd.	EII		+0.05	−0.6	0.0	R.
15	T.	EII		+0.03	−1.7	−1.0	R.
16	Hd.	EII		+0.02	−0.5	0.0	
17	T.	EII		+0.02	−0.1	+0.1	R.
18	Hd.	EII		+0.02	−0.2	−0.3	
20	T.	EII		+0.04	+0.5	+0.7	
22	T.	EII		+0.04	−0.8	−1.0	
24	Hd.	WII		+0.02	−1.1	−1.3	R.
25	T.	WII		+0.01	+0.7	+0.6	
26	Hd.	WII		−0.02	−1.0	−1.2	R.
31	Hd.	WII		+0.01	+0.6	+0.8	
Nov. 1	Hd.	WII		+0.05	−0.1	0.0	
6	T.	WII		+0.06	−1.5	−0.8	R.
8	T.	WII		+0.02	−0.1	−0.6	
20	T.	WII		+0.01	−1.6	−1.5	R.
26	Hd.	WII		−0.01	---	---	
Mean 1910.78–1910.77				+0.020	−0.10	−0.04	
Corr----------				−0.081	+0.04	+0.04	

ζ Eridani

	h	m	s	°	′	″	″
	3	11	27.641	−9	9	12.52,	12.52

1910					A	B	
Sept. 7	T.	EI		+0.05	+0.3	−0.1	
9	Hd.	EI		+0.07	−0.6	−1.0	
15	Hd.	EI		+0.09	−1.7	−1.4	R.
17	Hd.	EI		+0.02	−0.9	−1.4	R.
20	Hd.	EI		+0.03	+0.6	−0.4	
21	T.	EI		+0.12	+0.3	−0.3	
22	Hd.	WI		+0.04	+0.2	+0.3	
25	T.	WI		+0.01	−0.3	−0.5	R.
26	Hd.	WI		+0.07	−1.1	−1.5	R.
27	T.	WI		+0.06	−0.3	−0.9	
28	Hd.	WI		+0.04	−0.3	−0.8	
Oct. 1	T.	WI		+0.05	+1.7	+1.7	
2	Hd.	WI		+0.02	−0.4	−0.3	R.
4	T.	WI		+0.01	−1.0	+0.1	R.
5	Hd.	EI		+0.08	−0.9	−1.1	R.
10	T.	EI		+0.09	−1.0	−0.1	R.
11	Hd.	EII		+0.07	−2.1	−1.9	R.
14	Hd.	EII		+0.08	−0.7	−1.4	R.
15	T.	EII		+0.06	−1.6	−1.6	R.
16	Hd.	EII		+0.04	−0.4	+0.4	
17	T.	EII		+0.08	−0.9	−0.7	R.
18	Hd.	EII		+0.01	−0.1	0.0	
20	T.	EII		+0.01	+0.9	+0.4	
22	T.	EII		+0.11	+0.2	−0.3	
24	Hd.	WII		+0.05	−0.7	−0.4	R.
25	T.	WII		+0.06	+0.5	+0.1	
26	Hd.	WII		+0.07	−1.3	−1.3	R.
31	Hd.	WII		+0.10	+0.7	+0.4	
Nov. 6	T.	WII		+0.10	−1.3	−0.9	R.
8	T.	WII		+0.09	−1.2	−1.1	
20	T.	WII		+0.06	−1.0	−0.8	R.
Mean----------			1910.77	+0.059	+0.17	−0.11	
Corr----------				−0.081	+0.02	+0.02	

α Persei

	h	m	s	°	′	″	″
	3	17	53.459	+49	32	29.56,	29.56

1910					A	B	
Sept. 7	T.	EI		+0.12	+0.2	+0.9	
9	Hd.	EI		+0.09	+0.1	0.0	

[1] First bisection very uncertain.

1910				s	″ A	″ B	
Sept.	12	T.	EI	----	−0.7	−1.0	R.
	16	T.	EI	−0.09	−0.4	−0.1	R.
	17	Hd.	EI	+0.06	+0.2	+0.1	R.
	20	Hd.	EI	−0.05	+0.1	+0.4	
	21	T.	EI	−0.01	−1.1	+0.1	
	22	Hd.	WI	+0.17	0.0	−0.7	
	25	T.	WI	−0.02	+0.1	+0.4	R.
	26	Hd.	WI	+0.14	−0.6	+0.3	R.
	27	T.	WI	+0.12	+0.6	−0.5	
	28	Hd.	WI	−0.07	+0.5	+0.5	
Oct.	1	T.	WI	0.00	−0.4	−0.7	
	2	Hd.	WI	−0.07	−0.5	−0.7	R.
	5	Hd.	EI	+0.13	0.0	−0.1	R.
	10	T.	EI	−0.01	0.0	+0.2	R.
	11	Hd.	EII	+0.10	+0.3	+0.8	R.
	12	T.	EII	+0.08	−0.4	−0.3	
	14	Hd.	EII	+0.02	+0.6	−0.2	R.
	15	T.	EII	−0.03	+0.4	+0.4	R.
	16	Hd.	EII	+0.08	0.0	+0.4	
	17	T.	EII	+0.04	−0.5	−0.7	R.
	18	Hd.	EII	−0.06	−0.7	−0.7	
	20	T.	EII	+0.01	−0.6	−0.5	
	22	T.	EII	+0.03	+0.4	+0.4	
	24	Hd.	WII	+0.06	−0.5	−0.1	R.
	25	T.	WII	0.00	−0.3	−0.2	
	26	Hd.	WII	+0.04	−0.5	+0.3	R.
	31	Hd.	WII	+0.11	−0.4	+0.4	
Nov.	1	Hd.	WII	0.00	+0.4	+0.2	
	6	T.	WII	−0.04	−0.7	−0.7	R.
	8	T.	WII	+0.07	+0.7	+0.9	
	20	T.	WII	−0.01	−1.8	−1.1	R.
Mean			1910.77	+0.041	−0.05	+0.04	
Corr				−0.081	+0.06	+0.06	

f Tauri

h m s 3 25 54.143 ° ′ ″ ″ +12 37 43.79, 43.79 A B

1910							
Sept.	7	T.	EI	+0.06	−0.5	+0.1	
	9	Hd.	EI	+0.02	+0.6	+0.5	
	15	Hd.	EI	+0.04	−0.9	−0.9	R.
	16	T.	EI	+0.02	−0.4	+0.3	R.
	17	Hd.	EI	+0.06	−0.7	−0.5	R.
	20	Hd.	EI	+0.02	+0.3	−0.1	
	21	T.	EI	+0.02	+0.8	+0.8	
	22	Hd.	WI	+0.04	0.0	+0.1	
	25	T.	WI	+0.03	0.0	+0.1	R.
	26	Hd.	WI	0.00	−1.3	−1.7	R.
	27	T.	WI	+0.01	−0.5	−0.1	
	28	Hd.	WI	+0.02	+0.3	+0.6	
Oct.	1	T.	WI	0.00	+0.4	+0.8	
	2	Hd.	WI	+0.02	+0.1	+0.6	R.
	4	T.	WI	−0.03	−0.5	+0.2	R.
	5	Hd.	EI	0.00	−0.4	−0.4	R.
	10	T.	EI	−0.01	−0.4	−0.3	R.
	11	Hd.	EII	0.00	−1.1	0.0	R.
	14	Hd.	EII	+0.02	−0.4	−0.8	R.
	15	T.	EII	+0.03	−1.2	−0.4	R.
	16	Hd.	EII	+0.05	0.0	−0.1	
	17	T.	EII	+0.01	0.0	+0.2	R.
	18	Hd.	EII	+0.05	+0.4	+0.2	
	20	T.	EII	−0.09	+1.0	+1.2	
	22	T.	EII	+0.06	+0.3	−0.1	
	24	Hd.	WII	−0.03	−0.9	−0.5	R.
	25	T.	WII	+0.01	+1.1	+0.9	
	26	Hd.	WII	−0.01	−0.8	−1.2	R.
	31	Hd.	WII	+0.03	+0.3	+0.5	
Nov.	1	Hd.	WII	0.00	−0.2	−0.8	
	6	T.	WII	+0.05	−0.7	−0.8	R.
	8	T.	WII	+0.01	−0.2	−0.9	
	26	Hd.	WII	+0.03	---	---	
Mean			1910.78–1910.77	+0.020	+0.26	+0.22	
Corr				−0.081	+0.03	+0.03	

δ Persei

h m s 3 36 30.692 ° ′ ″ ″ +47 30 1.80, 1.80 A B

1910							
Sept.	7	T.	EI	+0.13	0.0	+0.1	
	9	Hd.	EI	+0.07	−0.8	−0.6	
	12	T.	EI	+0.04	−0.4	+0.1	R.
	15	Hd.	EI	+0.11	−0.6	−0.2	R.
	16	T.	EI	−0.05	+0.2	+0.7	R.
	17	Hd.	EI	+0.04	−0.5	−0.1	R.
	20	Hd.	EI	−0.03	0.0	+0.9	
	21	T.	EI	+0.01	−0.5	+0.7	
	22	Hd.	WI	+0.11	−0.8	−0.4	
	25	T.	WI	0.00	−1.2	−0.5	R.
	26	Hd.	WI	+0.07	+0.1	−0.4	R.
	27	T.	WI	+0.03	+1.5	+1.3	
	28	Hd.	WI	−0.02	+0.2	+0.5	
Oct.	1	T.	WI	−0.01	−0.5	+0.3	
	2	Hd.	WI	−0.07	−1.2	−1.2	R.
	5	Hd.	EI	+0.06	−0.8	−0.6	R.
	10	T.	EI	+0.02	−0.8	+0.1	R.
	11	Hd.	EII	+0.12	−0.8	−0.2	R.
	12	T.	EII	+0.05	+0.2	+0.4	
	14	Hd.	EII	+0.01	+0.2	−0.2	R.
	15	T.	EII	−0.02	−0.2	+0.6	R.
	16	Hd.	EII	+0.07	−0.3	+0.3	
	17	T.	EII	+0.04	−0.8	−0.3	R.
	18	Hd.	EII	−0.02	---	---	
	20	T.	EII	+0.10	−0.4	−0.7	
	22	T.	EII	+0.05	−0.3	−0.4	
	24	Hd.	WII	+0.02	−0.5	−0.2	R.
	25	T.	WII	−0.02	−1.0	+0.1	
	26	Hd.	WII	−0.03	−1.5	−1.4	R.
	31	Hd.	WII	+0.09	+0.8	+1.2	
Nov.	1	Hd.	WII	−0.04	0.0	+0.8	
	6	T.	WII	+0.01	−0.5	+0.2	R.
	8	T.	WII	+0.06	+0.1	+0.4	
	20	T.	WII	+0.02	−1.3	−1.2	R.
Mean			1910.77–1910.77	+0.037	−0.11	+0.31	
Corr				−0.081	+0.05	+0.05	

η Tauri

h m s 3 42 7.914 ° ′ ″ ″ +23 49 38.72, 38.72 A B

1910							
Sept.	7	T.	EI	−0.01	−0.3	−0.2	
	9	Hd.	EI	+0.06	−0.1	−0.3	
	12	T.	EI	−0.01	+0.5	+0.1	R.
	15	Hd.	EI	----	−0.8	−1.3	R.
	17	Hd.	EI	0.00	+0.8	+0.6	R.
	21	T.	EI	+0.03	+0.4	+0.9	
	22	Hd.	WI	+0.05	+0.5	+0.2	
	25	T.	WI	−0.04	+0.4	+0.6	R.
	26	Hd.	WI	+0.11	−0.7	+0.2	R.
	27	T.	WI	+0.01	+0.1	0.0	
	28	Hd.	WI	+0.04	+0.8	+0.6	
Oct.	1	T.	WI	+0.04	[+2.9]	[+3.5]	
	2	Hd.	WI	+0.12	+0.1	+0.5	R.
	4	T.	WI	0.00	−0.6	+0.1	R.
	5	Hd.	EI	+0.01	+0.1	−0.7	R.
	10	T.	EI	+0.02	+0.3	+0.4	R.
	11	Hd.	EII	+0.02	−0.7	+0.1	R.
	12	T.	EII	+0.06	−0.8	−0.1	
	14	Hd.	EII	+0.05	−0.1	−0.8	R.
	15	T.	EII	−0.01	−1.1	−0.4	R.
	16	Hd.	EII	−0.02	−0.8	−0.5	
	17	T.	EII	+0.06	+0.6	+1.1	R.
	20	T.	EII	−0.01	+1.0	+1.4	
	22	T.	EII	+0.05	−0.6	−0.6	
	24	Hd.	WII	0.00	−1.0	−1.4	R.
	25	T.	WII	+0.02	+0.9	+0.7	
	26	Hd.	WII	+0.08	−0.9	−1.2	R.
	31	Hd.	WII	−0.02	+1.3	+1.1	
Nov.	1	Hd.	WII	+0.03	+1.0	+1.2	
	6	T.	WII	+0.03	+1.2	+1.8	R.
	8	T.	WII	+0.03	+0.1	−0.1	

1910			s	A	B	
Nov. 20	T.	WII	−0.01	−0.7	−0.7	R.
26	Hd.	WII	+0.03	---	---	
Mean. 1910.78–1910.77			+0.024	+0.25	+0.31	
Corr			−0.081	+0.04	+0.04	

ζ Persei

h m s 3 48 28.281 ° ′ ″ +31 37 1.25, ″ 1.25

1910			s	A	B	
Sept. 7	T.	EI	+0.04	−0.7	−0.5	
9	Hd.	EI	+0.02	0.0	+0.4	
17	Hd.	EI	−0.01	−0.9	−1.2	R.
20	Hd.	EI	−0.02	0.0	−1.2	
21	T.	EI	+0.01	+0.2	+0.6	
22	Hd.	WI	+0.06	+0.9	−0.1	
26	Hd.	WI	+0.09	−1.1	−1.2	R.
27	T.	WI	+0.02	+0.2	−0.4	
28	Hd.	WI	0.00	+0.8	+0.1	
Oct. 1	T.	WI	+0.05	+1.5	+1.2	
2	Hd.	WI	−0.03	−0.3	+0.5	R.
4	T.	WI	+0.05	−0.6	0.0	R.
5	Hd.	EI	+0.08	0.0	−0.8	R.
10	T.	EI	+0.01	+0.5	+0.2	R.
11	Hd.	EII	+0.03	−0.8	−0.8	R.
14	Hd.	EII	+0.05	+0.1	−0.4	R.
15	T.	EII	+0.01	−0.7	−0.6	R.
16	Hd.	EII	−0.03	−0.3	−0.8	
17	T.	EII	−0.03	−0.4	0.0	R.
18	Hd.	EII	+0.02	+0.7	+0.3	
20	T.	EII	+0.04	+1.4	+0.7	
22	T.	EII	0.00	−0.6	−1.3	
24	Hd.	WII	+0.11	−1.1	−1.5	R.
25	T.	WII	+0.02	+0.4	+0.2	
26	Hd.	WII	+0.04	−0.3	+0.2	R.
31	Hd.	WII	+0.03	+1.0	+0.6	
Nov. 1	Hd.	WII	+0.06	+0.6	+0.4	
6	T.	WII	0.00	−1.0	−0.8	R.
8	T.	WII	+0.06	−0.5	−0.9	
20	T.	WII	+0.03	+0.1	−0.5	R.
Mean. 1910.77			+0.024	+0.35	−0.04	
Corr			−0.081	+0.05	+0.05	

γ Eridani

h m s 3 53 49.805 ° ′ ″ −13 45 50.55, ″ 50.55

1910			s	A	B	
Sept. 7	T.	EI	−0.01	+0.3	+0.6	
9	Hd.	EI	0.00	+1.3	+1.3	
15	Hd.	EI	−0.01	−1.1	−0.9	R.
16	T.	EI	0.00	−2.0	−1.6	R.
17	Hd.	EI	+0.07	+0.2	+0.5	R.
20	Hd.	EI	+0.05	+0.2	−0.4	
21	T.	EI	0.00	+0.9	+1.0	
22	Hd.	WI	+0.02	+0.2	+0.8	
25	T.	WI	+0.06	−0.1	−0.4	R.
26	Hd.	WI	−0.02	−0.8	−0.5	R.
27	T.	WI	0.00	−0.2	−0.3	
28	Hd.	WI	+0.05	+0.6	+0.5	
Oct. 1	T.	WI	−0.01	−0.1	+0.6	
2	Hd.	WI	+0.03	−0.2	−0.2	R.
5	Hd.	EI	−0.02	−0.8	−1.1	R.
10	T.	EI	+0.03	−0.4	+0.3	R.
11	Hd.	EII	+0.02	−1.4	−1.0	R.
12	T.	EII	−0.03	−0.4	+0.6	
14	Hd.	EII	0.00	−0.9	−1.2	R.
15	T.	EII	+0.03	−1.5	−1.3	R.
16	Hd.	EII	−0.01	+0.3	+0.6	
17	T.	EII	0.00	−1.4	−1.6	R.
20	T.	EII	+0.04	+1.4	+1.6	
22	T.	EII	0.00	−0.3	−0.6	
24	Hd.	WII	−0.02	−0.8	−0.2	R.
25	T.	WII	0.00	+0.4	+0.3	
26	Hd.	WII	+0.08	−1.0	−1.4	R.

1910			s	A	B	
Oct. 31	Hd.	WII	−0.05	+0.8	+1.0	
Nov. 1	Hd.	WII	+0.05	+0.4	+0.7	
6	T.	WII	+0.01	+0.4	+0.4	R.
8	T.	WII	−0.05	−1.5	−1.2	
20	T.	WII	+0.05	−0.7	−0.9	R.
26	Hd.	WII	+0.06	---	---	
Mean. 1910.78–1910.77			+0.006	+0.27	+0.44	
Corr			−0.081	+0.02	+0.02	

o^1 Eridani

h m s 4 7 28.299 ° ′ ″ −7 4 17.85, ″ 17.85

1910			s	A	B	
Sept. 7	T.	EI	0.00	−0.3	−0.8	
9	Hd.	EI	+0.03	+0.8	+0.4	
15	Hd.	EI	+0.05	−1.5	−1.3	R.
16	T.	EI	−0.02	−0.9	−1.2	R.
17	Hd.	EI	+0.02	−0.7	−1.0	R.
20	Hd.	EI	0.00	+0.6	+0.3	
21	T.	EI	+0.04	+1.0	+1.0	
22	Hd.	WI	0.00	−0.2	0.0	
25	T.	WI	+0.01	−0.8	−1.4	R.
26	Hd.	WI	+0.01	−1.4	−2.0	R.
27	T.	WI	+0.02	−0.3	−0.8	
28	Hd.	WI	+0.03	+0.7	+0.2	
Oct. 1	T.	WI	+0.02	+2.2	+1.6	
2	Hd.	WI	+0.02	−0.7	0.0	R.
5	Hd.	EI	+0.03	−0.7	−0.9	R.
10	T.	EI	+0.07	−0.5	0.0	R.
11	Hd.	EII	0.00	−1.0	−0.6	R.
14	Hd.	EII	−0.02	−0.7	−1.6	R.
15	T.	EII	+0.01	−1.6	−1.7	R.
16	Hd.	EII	+0.06	+0.2	0.0	
17	T.	EII	−0.01	−1.1	−0.3	R.
18	Hd.	EII	0.00	+0.1	+0.2	
20	T.	EII	+0.02	+0.2	+0.3	
22	T.	EII	+0.04	+0.5	+0.3	
24	Hd.	WII	+0.04	−0.4	−0.5	R.
25	T.	WII	+0.04	0.0	−1.1	
26	Hd.	WII	+0.05	−1.1	−0.9	R.
31	Hd.	WII	0.00	+0.9	+1.0	
Nov. 1	Hd.	WII	−0.02	−0.1	−0.3	
6	T.	WII	+0.01	−0.4	0.0	R.
8	T.	WII	+0.03	−1.3	−1.7	
20	T.	WII	+0.02	−1.8	−1.5	R.
26	Hd.	WII	+0.01	---	---	
Mean. 1910.78–1910.77			+0.019	+0.31	+0.04	
Corr			−0.081	+0.02	+0.02	

212 G. Eridani

h m s 4 16 43.44 ° ′ ″ −20 51 13.5, ″ 12.6

1910			s	A	B	
Sept. 7	T.	EI	43.48	13.1	12.5	
9	Hd.	EI	43.42	14.5	13.6	R.
16	T.	EI	43.40	15.2	14.8	R.
17	Hd.	EI	43.44	14.6	14.3	
20	Hd.	EI	43.53	13.5	13.0	
21	T.	EI	43.44	14.0	14.5	
22	Hd.	WI	43.38	14.4	14.2	R.
25	T.	WI	43.42	15.1	15.4	R.
26	Hd.	WI	43.48	13.9	14.3	
27	T.	WI	43.43	13.5	13.1	
28	Hd.	WI	43.44	13.4	13.6	
Oct. 1	T.	WI	43.51	13.8	13.9	R.
2	Hd.	WI	43.44	14.9	14.7	R.
4	T.	WI	43.41	14.3	14.3	R.
5	Hd.	EI	43.45	14.1	12.9	R.
10	T.	EI	43.43	15.1	14.8	R.
11	Hd.	EII	43.42	15.6	16.3	R.
14	Hd.	EII	43.41	15.2	14.9	R.
15	T.	EII	43.43	13.6	13.6	
16	Hd.	EII	43.44	14.1	14.1	R.
17	T.	EII	43.37	13.5	14.1	

			h m s	° ′ ″	″ A	″ B	
1910							
Oct. 22	T.	EII	43.40		14.6	14.9	
24	Hd.	WII	43.45		15.2	15.3	R.
25	T.	WII	43.39		14.1	13.8	
31	Hd.	WII	43.45		13.0	12.1	
Nov. 1	Hd.	WII	43.45		14.5	13.8	
6	T.	WII	43.49		14.5	14.5	R.
8	T.	WII	43.45		14.7	14.7	
20	T.	WII	43.44		14.4	14.5	R.
Mean 1910.77			4 16 43.441	−20 51	13.83	13.66	
Corr			−0.081		0.00	0.00	

22 H. Camelopardalis

			h m s	° ′ ″	″ A	″ B
			6 8 55.893	+69 21 10.06,	10.06	
1909						
Feb. 6	Hd.–Pk.	EI	+0.04		−0.4	−0.2
8	Hd.–Pk.	EI	+0.08		+0.5	−0.6
10	Hd.–Pk.	EI	−0.01		+0.9	+1.3
11	U.–T.	EI	+0.05		−0.7	−0.4
16	U.–T.	EI	+0.16		−1.1	+0.4
17	Hd.–Pk.	EI	+0.09		−0.3	−0.1
18	U.–T.	EI	+0.21		+0.1	−1.1
20	Hd.–Pk.	WI	+0.13		+0.3	+0.9
25	U.–Hd.	WI	+0.01		0.0	−1.0
28	U.–T.	WI	−0.15		+0.6	+0.6
Mar. 5	U.–Pk.	WI	0.00		−0.1	+0.2
7	U.–T.	WI	+0.04		+0.3	−0.3
9	U.–Pk.	WI	+0.10		+0.1	−1.0
10	Hd.–T.	WI	+0.07		−0.1	−0.3
11	Hd.–T.	WI	+0.01		−0.6	+0.1
Mean 1909.15			+0.055		−0.03	−0.10
Corr			−0.081		+0.07	+0.07

η Geminorum [1]

			h m s	° ′ ″	″ A	″ B
			6 9 26.740	+22 32 0.94		---
1909						
Sept. 24	*U.*	*WI*	*−0.03*		*0.0*	---
25	*Hd.*	*WI*	*−0.04*		*+0.3*	---
28	*Hd.*	*WI*	*+0.02*		*+1.2*	---
29	U.	WI	+0.03		+0.7	---
30	T.	WI	−0.04		+0.4	---
Oct. 1	Hd.	WI	−0.02		−0.9	---
2	T.	WI	−0.07		0.0	---
4	Hd.	EI	−0.07		−0.2	---
5	T.	EI	−0.04		+0.6	---
6	U.	EI	−0.07		+0.5	---
7	Hd.	EI	+0.01		−0.1	---
8	T.	EI	+0.01		+0.4	---
12	U.	EI	−0.01		+0.3	---
16	T.	EI	−0.02		+0.2	---
19	Hd.	EI	−0.04		−0.3	---
Dec. 5	U.	EI	−0.02		−0.8	---
6	Hd.	EI	−0.05		0.0	---
14	Hd.	EI	−0.10		+0.1	---
15	Hd.	EI	−0.05		+0.5	---
16	U.	EI	−0.01		−0.1	---
18	Hd.	EI	−0.03		+0.7	---
20	Hd.	EI	−0.03		+0.7	---
21	U.	EI	−0.05		+1.1	---
23	Hd.	EI	+0.04		−0.4	---
30	Hd.	WI	−0.02		+0.1	---
1910						
Jan. 4	Hd.	WI	0.00		+0.5	---
7	T.	WI	−0.01		+0.8	---
8	U.	WI	−0.02		+0.1	---
9	Hd.	WI	−0.06		+0.7	---
10	T.	WI	−0.05		+0.7	---
15	Hd.	WI	−0.04		−0.2	---
16	U.	WI	−0.04		+0.9	---
Mean 1909.90			−0.030		+0.24	---
Corr			−0.081		+0.04	---

2 Lyncis

			h m s	° ′ ″	″ A	″ B
			6 11 41.113	+59 2 40.63,	40.63	
1909						
Feb. 6	Hd.–Pk.	EI	−0.11		−1.3	−0.7
8	Hd.–Pk.	EI	−0.08		−1.0	−0.9
10	Hd.–Pk.	EI	−0.09		−1.7	−0.8
11	U.–T.	EI	−0.08		−0.7	−0.2
16	U.–T.	EI	−0.10		−2.9	−0.1
17	Hd.–Pk.	EI	−0.05		−1.7	−1.6
18	U.–T.	EI	+0.02		−1.7	−1.2
20	Hd.–Pk.	WI	−0.05		−1.9	0.0
25	U.–Hd.	WI	−0.22		−0.4	−1.5
28	U.–T.	WI	−0.16		−1.4	+0.8
Mar. 5	U.–Pk.	WI	−0.11		−0.7	+0.1
7	U.–T.	WI	−0.10		−0.6	−1.5
9	U.–Pk.	WI	−0.10		−1.5	−1.5
10	Hd.–T.	WI	+0.03		−0.8	−1.2
11	Hd.–T.	WI	0.00		−0.4	−0.6
Mean 1909.17			−0.080		−1.25	−0.73
Corr			−0.081		+0.06	+0.06

ζ Canis Majoris

			h m s	° ′ ″	″ A	″ B
			6 16 51.417	−30 1 23.45,	23.45	
1909						
Feb. 6	Hd.–Pk.	EI	+0.08		+1.5	+1.2
8	Hd.–Pk.	EI	+0.04		+1.4	+1.1
10	Hd.–Pk.	EI	+0.10		+3.8	+2.8
11	U.–T.	EI	+0.16		+1.4	+0.7
16	U.–T.	EI	+0.10		+1.4	+2.1
17	Hd.–Pk.	EI	+0.09		+1.2	+1.2
18	U.–T.	EI	+0.01		---	+0.6
20	Hd.–Pk.	WI	+0.09		−0.1	+1.3
25	U.–Hd.	WI	+0.19		+1.9	+2.8
28	U.–T.	WI	+0.11		+1.3	+1.7
Mar. 5	U.–Pk.	WI	+0.14		+0.2	+1.2
7	U.–T.	WI	+0.07		+1.0	+1.3
9	U.–Pk.	WI	+0.02		+2.4	−1.4
10	Hd.–T.	WI	−0.06		+1.1	+1.3
11	Hd.–T.	WI	+0.13		+1.5	+3.7
Mean 1909.15–1909.15			+0.085		+1.43	+1.44
Corr			−0.081		−0.03	−0.03

μ Geminorum

			h m s	° ′ ″	″ A	″ B
			6 17 30.971	+22 33 37.95		---
1909						
Sept. 24	*U.*	*WI*	*−0.01*		*−0.9*	---
25	*Hd.*	*WI*	*+0.02*		*+0.6*	---
28	*Hd.*	*WI*	*−0.02*		*0.0*	---
29	*U.*	*WI*	*+0.01*		*−0.4*	---
30	*T.*	*WI*	*+0.02*		*+0.1*	---
Oct. 1	Hd.	WI	−0.01		−0.5	---
2	T.	WI	−0.04		−1.1	---
4	Hd.	EI	+0.02		−0.6	---
5	T.	EI	0.00		−0.8	---
6	U.	EI	0.00		+0.6	---
7	Hd.	EI	−0.02		−0.4	---
8	T.	EI	−0.01		−0.6	---
16	T.	EI	+0.07		−0.7	---
19	Hd.	EI	−0.04		0.0	---
Dec. 5	U.	EI	−0.03		−0.3	---
6	Hd.	EI	−0.01		0.0	---
8	U.	EI	+0.05		−0.3	---
14	Hd.	EI	−0.02		−0.1	---
16	U.	EI	−0.03		−0.1	---
18	Hd.	EI	−0.01		−0.1	---
20	Hd.	EI	−0.02		+0.1	---
21	U.	EI	+0.01		−0.4	---
23	Hd.	EI	+0.03		−0.4	---
30	Hd.	WI	−0.03		0.0	---

[1] Double; s. fol. component observed.

				s	″ A	″ B
1910						
Jan.	4	Hd.	WI	−0.01	−0.6	---
	7	T.	WI	+0.01	+0.3	---
	8	U.	WI	+0.03	−1.6	---
	9	Hd.	WI	+0.03	+0.2	---
	10	T.	WI	−0.02	−0.5	---
	15	Hd.	WI	+0.02	−0.4	---
Mean		1909.91		−0.001	−0.33	---
Corr				−0.081	+0.04	---

10 Monocerotis

h m s 6 23 30.968 ° ′ ″ −4 42 21.10, 21.10

					A	B
1909						
Feb.	6	Hd.–Pk.	EI	−0.01	−0.2	−0.9
	8	Hd.–Pk.	EI	−0.02	+0.3	−0.4
	10	Hd.–Pk.	EI	−0.07	+0.7	−0.4
	11	U.–T.	EI	0.00	−1.5	−0.2
	16	U.–T.	EI	−0.05	0.0	−1.1
	17	Hd.–Pk.	EI	−0.07	−0.8	−1.4
	18	U.–T.	EI	+0.02	−0.5	−0.4
	20	Hd.–Pk.	WI	−0.03	−0.6	+0.2
	25	U.–Hd.	WI	+0.01	+0.1	+0.7
	28	U.–T.	WI	−0.05	+0.1	+0.7
Mar.	5	U.–Pk.	WI	−0.06	−0.9	+1.3
	7	U.–T.	WI	−0.05	−0.2	−0.5
	9	U.–Pk.	WI	−0.06	−0.9	−2.3
	10	Hd.–T.	WI	−0.05	+0.5	−0.5
	11	Hd.–T.	WI	−0.03	+0.2	−0.6
Dec.	5	U.	EI	−0.07	+0.5	---
	6	Hd.	EI	−0.04	−0.1	---
	16	U.	EI	+0.01	−0.4	---
	18	Hd.	EI	−0.03	+0.1	---
	20	Hd.	EI	+0.03	+0.3	---
	21	U.	EI	−0.03	+0.4	---
	23	Hd.	EI	+0.02	+0.1	---
1910						
Jan.	7	T.	WI	−0.02	+0.4	---
	8	U.	WI	−0.07	−0.5	---
	9	Hd.	WI	0.00	−0.7	---
	10	T.	WI	−0.07	−0.8	---
	15	Hd.	WI	−0.06	−0.7	---
Mean		1909.52–1909.52 1909.15		−0.031	−0.19	−0.39
Corr				−0.081	+0.02	+0.02

8 Lyncis

h m s 6 29 28.170 ° ′ ″ +61 33 41.09, 41.20

					A	B
1909						
Feb.	6	Hd.–Pk.	EI	−0.01	−0.2	−0.1
	8	Hd.–Pk.	EI	+0.03	+0.4	−0.5
	10	Hd.–Pk.	EI	−0.07	+1.0	−0.4
	11	U.–T.	EI	−0.12	+0.2	+1.2
	16	U.–T.	EI	−0.01	−0.1	+0.8
	17	Hd.–Pk.	EI	−0.05	−0.5	−0.9
	20	Hd.–Pk.	WI	−0.02	−0.1	+0.3
	25	U.–Hd.	WI	−0.19	−0.7	−0.2
	28	U.–T.	WI	−0.07	+0.1	−0.8
Mar.	5	U.–Pk.	WI	−0.07	−1.3	+0.6
	7	U.–T.	WI	−0.14	−0.7	−1.4
	9	U.–Pk.	WI	−0.10	−0.2	−1.5
	10	Hd.–T.	WI	−0.02	−0.7	−1.2
	11	Hd.–T.	WI	−0.09	−0.5	−0.3
Dec.	5	U.	EI	−0.12	+0.4	---
	6	Hd.	EI	+0.06	+0.2	---
	14	Hd.	EI	+0.07	---	---
	16	U.	EI	−0.03	−2.1	---
	18	Hd.	EI	+0.04	−0.4	---
	20	Hd.	EI	+0.01	+0.1	---
	21	U.	EI	−0.08	−1.3	---
	23	Hd.	EI	+0.10	−0.6	---

				s	″ A	″ B
1910						
Jan.	7	T.	WI	−0.10	+0.1	---
	8	U.	WI	+0.04	0.0	---
	9	Hd.	WI	+0.02	+0.5	---
	10	T.	WI	−0.08	−0.2	---
	15	Hd.	WI	+0.01	−0.2	---
Mean		1909.55–1909.54 1909.15		−0.037	−0.26	−0.31
Corr				−0.081	+0.06	+0.06

γ Geminorum

h m s 6 32 30.793 ° ′ ″ +16 28 36.39, 36.41

					A	B
1909						
Feb.	6	Hd.–Pk.	EI	+0.04	+0.3	−0.4
	8	Hd.–Pk.	EI	+0.01	+0.6	−0.4
	10	Hd.–Pk.	EI	+0.01	+1.1	−1.3
	11	U.–T.	EI	+0.03	+0.2	0.0
	16	U.–T.	EI	+0.08	−0.5	−0.6
	17	Hd.–Pk.	EI	+0.04	+0.1	−0.7
	18	U.–T.	EI	+0.06	−0.7	−0.7
	20	Hd.–Pk.	WI	0.00	+0.2	−0.2
	25	U.–Hd.	WI	+0.01	+0.1	−0.2
	28	U.–T.	WI	+0.03	+0.9	+0.5
Mar.	5	U.–Pk.	WI	+0.07	---	+0.8
	7	U.–T.	WI	+0.06	+0.1	+0.1
	9	U.–Pk.	WI	0.00	−0.1	+0.1
	10	Hd.–T.	WI	−0.01	+0.4	−0.8
	11	Hd.–T.	WI	0.00	+0.2	−0.1
Sept.	*24*	*U.*	*WI*	*+0.04*	*−1.2*	---
	25	*Hd.*	*WI*	*+0.04*	*0.0*	---
	28	*Hd.*	*WI*	*+0.03*	*−0.1*	---
	29	*U.*	*WI*	*+0.09*	*0.0*	---
	30	*T.*	*WI*	*−0.02*	*+1.0*	---
Oct.	*1*	*Hd.*	*WI*	*+0.05*	*+0.3*	---
	2	*T.*	*WI*	*+0.03*	*0.0*	---
	4	Hd.	EI	+0.05	−0.7	---
	5	T.	EI	+0.05	−0.3	---
	6	U.	EI	−0.03	−0.6	---
	7	Hd.	EI	+0.06	+0.7	---
	8	T.	EI	+0.02	−0.1	---
	12	U.	EI	+0.09	+1.0	---
	16	T.	EI	+0.04	−1.2	---
	19	Hd.	EI	0.00	−0.5	---
Dec.	6	Hd.	EI	----	+0.2	---
	8	U.	EI	+0.01	−0.9	---
	16	U.	EI	+0.10	+0.2	---
	18	Hd.	EI	+0.02	−0.5	---
	20	Hd.	EI	+0.06	−0.1	---
	21	U.	EI	0.00	+0.7	---
	23	Hd.	EI	+0.07	0.0	---
	30	Hd.	WI	+0.01	+0.3	---
1910						
Jan.	4	Hd.	WI	+0.01	0.0	---
	7	T.	WI	+0.01	+0.3	---
	8	U.	WI	+0.03	+0.1	---
	9	Hd.	WI	+0.05	+0.3	---
	10	T.	WI	+0.05	+0.6	---
	15	Hd.	WI	+0.02	−0.2	---
Mean		1909.59–1909.61 1909.15		+0.032	+0.06	−0.26
Corr				−0.081	+0.04	+0.04

S Monocerotis [1]

h m s 6 36 1.312 ° ′ ″ +9 58 46.66, 46.66

					A	B
1909						
Feb.	6	Hd.–Pk.	EI	+0.01	+1.3	−0.6
	8	Hd.–Pk.	EI	−0.04	−0.7	−0.7
	10	Hd.–Pk.	EI	+0.03	+0.5	−1.2
	11	U.–T.	EI	−0.02	+0.6	+1.8
	16	U.–T.	EI	+0.03	+0.6	+0.5

[1] Double; n. fol. component observed.

			s	″ A	″ B
1909					
Feb. 17	Hd.–Pk.	EI	0.00	+1.2	−1.6
18	U.–T.	EI	−0.02	−0.3	−0.5
20	Hd.–Pk.	WI	+0.05	−0.2	−0.1
25	U.–Hd.	WI	−0.06	+0.4	−0.5
28	U.–T.	WI	+0.02	+0.6	+0.7
Mar. 5	U.–Pk.	WI	0.00	−1.0	−0.2
7	U.–T.	WI	−0.01	+0.6	+0.3
9	U.–Pk.	WI	−0.05	+0.4	−0.6
10	Hd.–T.	WI	−0.01	+1.1	−0.1
11	Hd.–T.	WI	+0.01	+0.7	−0.3
Mean	1909.15		−0.004	+0.39	−0.21
Corr			−0.081	+0.03	+0.03

ε Geminorum

h	m	s	°	′	″	″
6	38	23.739	+25	13	15.62,	15.63

				″ A	″ B
1909					
Feb. 6	Hd.–Pk.	EI	+0.02	+0.7	−1.0
8	Hd.–Pk.	EI	+0.01	+1.2	−0.9
10	Hd.–Pk.	EI	+0.02	+0.1	+0.5
16	U.–T.	EI	−0.03	−0.7	+0.4
17	Hd.–Pk.	EI	+0.02	−0.6	−0.8
18	U.–T.	EI	+0.08	−0.5	−0.8
20	Hd.–Pk.	WI	+0.01	−0.3	−0.2
25	U.–Hd.	WI	0.00	+0.3	+0.2
28	U.–T.	WI	+0.03	0.0	+0.5
Mar. 5	U.–Pk.	WI	----	0.0	−0.5
7	U.–T.	WI	+0.01	+0.3	−0.7
9	U.–Pk.	WI	+0.05	0.0	−1.8
10	Hd.–T.	WI	+0.02	−0.3	−0.9
11	Hd.–T.	WI	−0.01	0.0	−0.6
Sept. 25	*Hd.*	*WI*	*+0.03*	*+0.3*	---
28	*Hd.*	*WI*	*−0.03*	*+0.9*	---
29	*U.*	*WI*	*+0.09*	*0.0*	---
30	*T.*	*WI*	*+0.03*	*+0.6*	---
Oct. 1	*Hd.*	*WI*	*+0.03*	*−0.4*	---
2	*T.*	*WI*	*+0.05*	*+0.6*	---
4	*Hd.*	*EI*	*+0.02*	*−0.2*	---
5	T.	EI	+0.04	+0.1	---
6	U.	EI	----	+1.1	---
7	Hd.	EI	+0.02	+0.6	---
8	T.	EI	+0.04	−0.6	---
12	U.	EI	+0.05	+0.6	---
16	T.	EI	+0.01	+1.2	---
19	Hd.	EI	−0.01	+0.4	---
Dec. 5	U.	EI	0.00	+0.2	---
6	Hd.	EI	−0.01	+0.2	---
8	U.	EI	+0.02	−0.1	---
16	U.	EI	+0.01	−0.5	---
18	Hd.	EI	+0.03	−0.4	---
20	Hd.	EI	+0.03	−0.1	---
23	Hd.	EI	+0.02	−0.5	---
30	Hd.	WI	−0.06	---	---
1910					
Jan. 4	Hd.	WI	+0.02	0.0	---
7	T.	WI	0.00	+0.8	---
8	U.	WI	+0.03	+0.1	---
9	Hd.	WI	−0.02	−0.2	---
10	T.	WI	+0.06	+0.9	---
15	Hd.	WI	+0.03	0.0	---
16	U.	WI	0.00	+0.1	---
Mean	1909.63–1909.61		+0.016	+0.12	−0.47
	1909.15				
Corr			−0.081	+0.04	+0.04

α Canis Majoris

h	m	s	°	′	″	″
6	41	10.929[1]	−16	35	31.76[1]	---

				″ A	″ B
1909					
Dec. 5	U.	EI	----	0.0	---
6	Hd.	EI	+0.06	+0.1	---
8	U.	EI	+0.07	−0.6	---
16	U.	EI	+0.14	−0.8	---
18	Hd.	EI	+0.09	−0.6	---

[1] Center of orbit.

			s	″ A	″ B
1909					
Dec. 20	Hd.	EI	+0.11	−0.5	---
21	U.	EI	+0.11	−0.4	---
23	Hd.	EI	+0.13	−0.3	---
30	Hd.	WI	+0.08	−0.3	---
1910					
Jan. 4	Hd.	WI	+0.07	+0.9	---
7	T.	WI	+0.12	+0.3	---
8	U.	WI	+0.05	−0.9	---
9	Hd.	WI	+0.11	−0.8	---
10	T.	WI	+0.06	−0.2	---
15	Hd.	WI	+0.13	−1.3	---
16	U.	WI	+0.17	−0.8	---
Mean	1909.99–1909.99		+0.100	−0.39	---
Corr			−0.081	+0.01	---

43 Camelopardalis

h	m	s	°	′	″	″
6	44	0.423	+68	59	39.13,	39.13

				″ A	″ B
1909					
Feb. 6	Hd.–Pk.	EI	−0.03	−0.6	−1.3
8	Hd.–Pk.	EI	−0.04	+0.1	−0.1
10	Hd.–Pk.	EI	+0.03	+0.1	+0.9
11	U.–T.	EI	−0.19	−0.1	−0.3
16	U.–T.	EI	−0.14	−1.4	−0.6
17	Hd.–Pk.	EI	+0.05	+0.1	−1.5
18	U.–T.	EI	−0.05	−1.1	−0.6
20	Hd.–Pk.	WI	−0.03	+0.6	0.0
25	U.–Hd.	WI	−0.04	−0.7	−1.2
28	U.–T.	WI	−0.07	−0.1	+0.1
Mar. 5	U.–Pk.	WI	----	−0.1	+0.2
7	U.–T.	WI	−0.09	−1.2	−1.6
9	U.–Pk.	WI	−0.15	−0.6	−1.5
10	Hd.–T.	WI	+0.06	−1.6	−1.8
11	Hd.–T.	WI	+0.01	+0.3	−0.5
Sept. 24	*U.*	*WI*	*−0.07*	*−1.0*	---
25	*Hd.*	*WI*	*−0.10*	*+0.4*	---
28	*Hd.*	*WI*	*−0.13*	*+0.6*	---
30	*T.*	*WI*	*−0.07*	*0.0*	---
Oct. 1	*Hd.*	*WI*	*−0.01*	*+0.4*	---
2	*T.*	*WI*	*−0.23*	*−0.9*	---
4	*Hd.*	*EI*	*−0.04*	*−0.4*	---
5	*T.*	*EI*	*−0.06*	*−0.2*	---
6	U.	EI	−0.02	0.0	---
7	Hd.	EI	−0.04	−0.2	---
8	T.	EI	−0.07	−0.7	---
12	U.	EI	−0.03	0.0	---
16	T.	EI	−0.08	0.0	---
19	Hd.	EI	+0.03	−0.4	---
Mean	1909.34–1909.33		−0.044	−0.36	−0.65
	1909.15				
Corr			−0.081	+0.07	+0.07

43 Camelopardalis s. p.

h	m	s	°	′	″	″
6	44	0.424	+68	59	39.14	---

				″ A	″ B
1909					
Sept. 24	U.	WI	+0.02	+1.3	---
25	Hd.	WI	−0.07	+0.1	---
28	Hd.	WI	−0.14	+0.2	---
29	U.	WI	+0.17	+0.7	---
30	T.	WI	−0.06	−0.4	---
Oct. 1	Hd.	WI	+0.04	+0.3	---
2	T.	WI	−0.07	−0.1	---
3	*U.*	*WI*	*−0.02*	*−0.9*	---
4	*Hd.*	*EI*	*−0.03*	*−0.1*	---
5	*T.*	*EI*	*0.00*	*+0.7*	---
6	*U.*	*EI*	*−0.01*	*−1.1*	---
7	*Hd.*	*EI*	*−0.06*	*+0.5*	---
8	*T.*	*EI*	*+0.08*	*−1.3*	---
9	*U.*	*EI*	*−0.18*	*−0.3*	---
Mean	1909.74		−0.016	+0.30	---
Corr			−0.081	−0.14	---

θ Geminorum

				h m s	° ′ ″	″	″
				6 46 51.537	+34 4 14.02, 14.04		
1909						A	B
Feb.	6	Hd.–Pk.	EI			−1.7	−1.6
	8	Hd.–Pk.	EI			+0.3	−1.7
	10	Hd.–Pk.	EI			0.0	−1.2
	11	U.–T.	EI			−0.9	−0.2
	16	U.–T.	EI			+0.1	−0.2
	17	Hd.–Pk.	EI			−1.8	−0.9
	18	U.–T.	EI			0.0	+0.2
	20	Hd.–Pk.	WI			---	+0.2
	25	U.–Hd.	WI			+0.8	−0.1
	28	U.–T.	WI			+1.6	−0.1
Mar.	5	U.–Pk.	WI			---	+0.1
	7	U.–T.	WI			−0.3	−0.5
	9	U.–Pk.	WI			−0.6	−1.4
	10	Hd.–T.	WI			−0.3	−1.4
	11	Hd.–T.	WI			−0.3	−0.4
Dec.	5	U.	EI			+0.6	---
	6	Hd.	EI			−0.4	---
	8	U.	EI			−0.6	---
	16	U.	EI			−0.5	---
	18	Hd.	EI			−0.4	---
	20	Hd.	EI			−0.1	---
	21	U.	EI			+0.3	---
	23	Hd.	EI			−0.5	---
1910							
Jan.	4	Hd.	WI			+0.9	---
	7	T.	WI			+0.3	---
	8	U.	WI			−0.1	---
	9	Hd.	WI			−0.8	---
	10	T.	WI			−0.1	---
	15	Hd.	WI			−0.5	---
	16	U.	WI			−0.4	---
Mean		1909.57–1909.60				−0.19	−0.61
		1909.15					
Corr						+0.05	+0.05

ε Canis Majoris [1]

				h m s	° ′ ″	″	″
				6 55 5.315	−28 50 56.63	---	
1909						A	B
Dec.	6	Hd.	EI			−0.9	---
	16	U.	EI			+0.4	---
	18	Hd.	EI			+1.2	---
	20	Hd.	EI			[+2.9]	---
	21	U.	EI			−0.1	---
	23	Hd.	EI			−1.5	---
1910							
Jan.	7	T.	WI			+0.3	---
	8	U.	WI			−0.8	---
	9	Hd.	WI			−1.4	---
	10	T.	WI			−0.6	---
	15	Hd.	WI			+0.1	---
	16	U.	WI			−0.4	---
Mean		1909.99–1910.00				−0.34	---
Corr						−0.03	---

51 H. Cephei

				h m s	° ′ ″	″	″
				6 58 39.16	+87 11 31.53, 31.54		
1909						A	B
Feb.	6	Hd.–Pk.	EI			−0.2	−0.6
	8	Hd.–Pk.	EI			+0.1	+0.3
	11	U.–T.	EI			−0.1	+0.1
	16	U.–T.	EI			−0.4	+0.1
	17	Hd.–Pk.	EI			−0.2	−0.1
	18	U.–T.	EI			−0.6	−1.0
				s		″ A	″ B
1909							
Feb.	20	Hd.–Pk.	WI	+0.69		−1.2	+0.3
	25	U.–Hd.	WI	+0.61		−0.3	0.0
	28	U.–T.	WI	+0.71		0.0	−0.1
Mar.	5	U.–Pk.	WI	+0.35		−0.6	−0.8
	7	U.–T.	WI	+0.15		−1.5	−0.9
	9	U.–Pk.	WI	+1.22		−1.1	−0.9
	10	Hd.–T.	WI	+1.48		−1.8	−0.7
	11	Hd.–T.	WI	+0.87		0.0	−0.5
Sept.	*24*	*U.*	*WI*	*−0.81*		*−0.8*	---
	25	*Hd.*	*WI*	*−0.15*		*+0.8*	---
	28	*Hd.*	*WI*	*+0.34*		*+0.1*	---
	30	*T.*	*WI*	*+0.27*		*+0.7*	---
Oct.	*1*	*Hd.*	*WI*	*+0.93*		*−0.4*	---
	2	*T.*	*WI*	*0.00*		*−0.8*	---
	4	*Hd.*	*EI*	*+0.40*		*−2.0*	---
	5	*T.*	*EI*	*+0.04*		*0.0*	---
	6	*U.*	*EI*	---		*+1.5*	---
	7	*Hd.*	*EI*	*−0.05*		*+0.3*	---
	8	*T.*	*EI*	*−0.08*		*−0.4*	---
	12	U.	EI	---		−0.1	---
	16	T.	EI	+0.71		−0.2	---
	19	Hd.	EI	+0.82		−0.2	---
1910							
Oct.	*2*	*Fn.*	*WI*	---		*−0.5*	*+0.6*
	4	*Fn.*	*WI*	---		*+0.3*	*+0.1*
	11	Fn.	EII	---		−1.1	−0.7
	14	Fn.	EII	---		−0.8	+0.4
	17	Fn.	EII	---		−0.4	+0.5
	20	Fn.	EII	---		−0.4	+1.0
Mean		1909.23–1909.36		+0.75		−0.53	−0.20
		1909.29					
Corr				−0.08		+0.08	+0.08

51 H. Cephei s. p.

				h m s	° ′ ″	″	″
				6 58 39.13	+87 11 31.51, 31.48		
1909						A	B
Sept.	24	U.	WI	---		+0.6	---
	25	Hd.	WI	+0.29		0.0	---
	28	Hd.	WI	−0.64		−0.2	---
	29	U.	WI	+0.16		−0.1	---
	30	T.	WI	−0.11		−0.2	---
Oct.	1	Hd.	WI	+0.19		+0.1	---
	2	T.	WI	+0.35		−0.1	---
	3	U.	WI	+0.59		−0.7	---
	4	Hd.	EI	−0.38		−0.5	---
	5	T.	EI	+0.59		−0.2	---
	6	U.	EI	+0.17		−1.1	---
	7	Hd.	EI	+0.05		−1.2	---
	8	T.	EI	+0.19		−0.5	---
	9	U.	EI	+0.19		−0.2	---
1910							
Sept.	7	Fn.	EI	---		−1.4	+0.5
	8	Fn.	EI	---		0.0	+1.0
	15	Fn.	EI	---		−0.7	−0.3
	20	Fn.	EI	---		0.0	+0.3
	22	Fn.	WI	---		+0.9	−0.2
	26	Fn.	WI	---		−0.9	+0.2
	28	Fn.	WI	---		0.0	−0.1
Oct.	5	Fn.	EI	---		+0.3	−0.6
	6	Fn.	EI	---		−0.4	−0.1
	10	*Fn.*	*EI*	---		*+0.4*	*−1.6*
	11	*Fn.*	*EII*	---		*+0.9*	*0.0*
	12	*Fn.*	*EII*	---		*+0.2*	*−1.0*
	17	*Fn.*	*EII*	---		*+1.4*	*+0.1*
	20	*Fn.*	*EII*	---		*0.0*	*+0.3*
Mean		1909.76–1910.13		+0.13		−0.28	+0.08
		1910.72					
Corr				−0.08		−0.09	−0.09

[1] Double; n. pr. component observed.

δ Canis Majoris

				h m s	° ′ ″	″
				7 4 43.865	−26 14 59.21,	59.21
1909					A	B
Feb.	6	Hd.–Pk.	EI	+0.04	+1.3	+0.5
	8	Hd.–Pk.	EI	+0.08	+0.7	−0.1
	11	U.–T.	EI	+0.10	+0.4	+0.5
	16	U.–T.	EI	+0.14	−1.4	−1.6
	17	Hd.–Pk.	EI	+0.09	−1.6	−0.3
	20	Hd.–Pk.	WI	+0.15	−0.3	+0.3
	25	U.–Hd.	WI	+0.11	−1.0	−1.6
	28	U.–T.	WI	+0.04	−0.2	+1.1
Mar.	5	U.–Pk.	WI	+0.11	−1.0	0.0
	7	U.–T.	WI	+0.10	+1.3	−1.4
	9	U.–Pk.	WI	+0.09	+0.1	−1.0
	10	Hd.–T.	WI	+0.12	+0.8	−1.3
	11	Hd.–T.	WI	+0.03	+1.6	+1.7
Sept.	*24*	*U.*	*WI*	*+0.08*	*−0.8*	---
	25	*Hd.*	*WI*	*+0.09*	*−0.1*	---
	28	*Hd.*	*WI*	*+0.11*	*−0.1*	---
	30	*T.*	*WI*	*+0.09*	*+0.5*	---
Oct.	*1*	*Hd.*	*WI*	*+0.12*	*+0.3*	---
	2	*T.*	*WI*	*+0.11*	*+1.2*	---
	4	*Hd.*	*EI*	*+0.07*	*−0.5*	---
	5	*T.*	*EI*	*+0.01*	*+0.4*	---
	6	*U.*	*EI*	----	*−0.9*	---
	7	*Hd.*	*EI*	*+0.12*	*−1.1*	---
	8	*T.*	*EI*	*+0.01*	*−0.6*	---
	12	U.	EI	+0.03	+0.9	---
	16	T.	EI	+0.11	−0.6	---
	19	Hd.	EI	+0.03	+0.1	---
Dec.	5	U.	EI	+0.10	−0.5	---
	6	Hd.	EI	+0.12	−0.6	---
	16	U.	EI	+0.07	0.0	---
	18	Hd.	EI	+0.08	+0.9	---
	20	Hd.	EI	+0.09	+1.0	---
	21	U.	EI	+0.14	+1.8	---
	23	Hd.	EI	+0.09	−0.8	---
1910						
Jan.	7	T.	WI	+0.11	+1.4	---
	8	U.	WI	+0.09	−0.5	---
	9	Hd.	WI	+0.06	−0.1	---
	10	T.	WI	+0.06	+0.9	---
	15	Hd.	WI	+0.08	−0.2	---
	16	U.	WI	+0.12	+0.6	---
Mean		1909.59–1909.59		+0.089	+0.17	−0.25
		1909.15				
Corr				−0.081	−0.01	−0.01

51 Geminorum

				h m s	° ′ ″	″
				7 8 12.281	+16 18 44.53	---
1909					A	B
Dec.	5	U.	EI	−0.05	+0.1	---
	6	Hd.	EI	0.00	−0.1	---
	16	U.	EI	0.00	−0.1	---
	18	Hd.	EI	−0.03	−0.2	---
	20	Hd.	EI	−0.04	−0.1	---
	21	U.	EI	0.00	+0.7	---
	23	Hd.	EI	0.00	+0.8	---
1910						
Jan.	7	T.	WI	−0.05	+1.2	---
	8	U.	WI	−0.06	−0.7	---
	9	Hd.	WI	−0.06	−1.1	---
	10	T.	WI	−0.03	−0.5	---
	15	Hd.	WI	−0.02	−0.4	---
	16	U.	WI	−0.07	+0.1	---
Mean		1909.99		−0.032	−0.02	---
Corr				−0.081	+0.04	---

25 H. Camelopardalis

				h m s	° ′ ″	″
				7 12 12.452	+82 35 14.40,	14.41
1909					A	B
Feb.	6	Hd.–Pk.	EI	−0.38	+0.8	−0.7
	8	Hd.–Pk.	EI	−0.43	+0.1	0.0
	11	U.–T.	EI	−0.37	---	+0.5
	16	U.–T.	EI	−0.13	−1.0	−0.4
	17	Hd.–Pk.	EI	−0.68	+0.3	−0.5
	18	U.–T.	EI	----	−0.4	−0.8
	20	Hd.–Pk.	WI	−0.17	+0.2	+0.4
	25	U.–Hd.	WI	−0.55	−0.7	+0.4
	28	U.–T.	WI	−0.69	−0.4	−0.1
Mar.	5	U.–Pk.	WI	−0.25	−1.0	0.0
	7	U.–T.	WI	−0.40	−0.6	−1.0
	9	U.–Pk.	WI	−0.46	−0.6	−1.5
	10	Hd.–T.	WI	−0.17	−0.4	−1.1
	11	Hd.–T.	WI	−0.08	−0.4	−0.3
Sept.	*25*	*Hd.*	*WI*	*−0.55*	*+0.7*	---
	28	*Hd.*	*WI*	*−0.31*	*+0.8*	---
	30	*T.*	*WI*	*−0.15*	*+0.8*	---
Oct.	*1*	*Hd.*	*WI*	*−0.38*	*+1.1*	---
	2	*T.*	*WI*	*−0.44*	*+1.2*	---
	5	*T.*	*EI*	*−0.57*	*+0.9*	---
	7	*Hd.*	*EI*	*−0.36*	*+0.5*	---
	8	*T.*	*EI*	*−0.56*	*−0.4*	---
	12	U.	EI	−0.36	+0.3	---
	16	T.	EI	−0.53	+0.6	---
	19	Hd.	EI	−0.32	+0.4	---
Mean		1909.27–1909.27		−0.373	−0.18	−0.36
		1909.15				
Corr				−0.081	+0.08	+0.08

25 H. Camelopardalis s. p.

				h m s	° ′ ″	″
				7 12 12.458	+82 35 14.38	---
1909					A	B
Sept.	24	U.	WI	−0.67	+1.4	---
	25	Hd.	WI	−0.50	+0.6	---
	28	Hd.	WI	−0.93	−0.2	---
	29	U.	WI	−0.78	−0.1	---
	30	T.	WI	−0.80	−0.4	---
Oct.	1	Hd.	WI	−0.72	+0.7	---
	2	T.	WI	−0.65	−1.0	---
	3	U.	WI	−0.61	+0.3	---
	4	Hd.	EI	−0.57	+0.3	---
	5	T.	EI	−0.60	−0.4	---
	6	U.	EI	−0.98	+0.7	---
	7	Hd.	EI	−0.38	−0.3	---
	8	T.	EI	−0.43	+0.2	---
	9	U.	EI	−0.17	−0.1	---
Mean		1909.75		−0.628	+0.12	---
Corr				−0.081	−0.10	---

π Argûs

				h m s	° ′ ″	″
				7 13 57.848	−36 56 8.31	---
1909					A	B
Dec.	5	U.	EI	+0.02	+1.7	---
	6	Hd.	EI	+0.01	+0.3	---
	16	U.	EI	+0.03	[+5.1]	---
	18	Hd.	EI	+0.07	+0.8	---
	20	Hd.	EI	+0.05	+3.0	---
	23	Hd.	EI	+0.12	+2.0	---
1910						
Jan.	7	T.	WI	+0.06	+2.2	---
	8	U	WI	0.00	−0.8	---
	9	Hd.	WI	+0.02	+0.3	---
	10	T.	WI	+0.06	+0.6	---
	15	Hd.	WI	+0.09	+1.2	---
	16	U.	WI	+0.11	+0.8	---
Mean		1909.99–1910.00		+0.053	+1.10	---
Corr				0.081	−0.05	---

66 Aurigæ

			h m s	° ′ ″	″ A	″ B
1909						
Dec. 5	U.	EI	7 17 54.67	+40 50 48.0		---
6	Hd.	EI	54.71		48.0	---
16	U.	EI	54.71		47.0	---
18	Hd.	EI	54.71		47.8	---
20	Hd.	EI	54.73		48.0	---
21	U.	EI	54.68		47.1	---
23	Hd.	EI	54.65		47.6	---
1910						
Jan. 7	T.	WI	54.71		47.4	---
9	Hd.	WI	54.80		47.8	---
10	T.	WI	54.76		47.2	---
15	Hd.	WI	54.73		47.7	---
16	U.	WI	54.71		47.3	---
Mean	1909.99		7 17 54.714	+40 50 47.58		---
Corr			−0.081		+0.05	---

ι Geminorum

			h m s	° ′ ″	″ A	″ B
			7 20 8.331	+27 58 39.68,	39.68	
1909						
Feb. 6	Hd.–Pk.	EI	+0.02		+0.5	+0.1
8	Hd.–Pk.	EI	+0.05		+0.7	0.0
11	U.–T.	EI	−0.02		−0.4	+0.4
16	U.–T.	EI	+0.01		−1.0	−0.4
17	Hd.–Pk.	EI	−0.01		+0.3	−1.2
18	U.–T.	EI	−0.04		−1.2	−0.9
20	Hd.–Pk.	WI	0.00		−0.5	−0.2
25	U.–Hd.	WI	0.00		−0.4	−0.8
28	U.–T.	WI	−0.02		+0.6	+0.4
Mar. 5	U.–Pk.	WI	−0.02		−0.4	+0.2
7	U.–T.	WI	−0.07		+0.7	+0.4
9	U.–Pk.	WI	−0.01		0.0	−1.9
10	Hd.–T.	WI	0.00		−0.1	−0.9
11	Hd.–T.	WI	+0.01		+0.2	−0.7
Mean	1909.15		−0.007		−0.07	−0.39
Corr			−0.081		+0.04	+0.04

β Canis Minoris

			h m s	° ′ ″	″ A	″ B
			7 22 16.262	+8 28 16.68,	16.70	
1909						
Feb. 6	Hd.–Pk.	EI	−0.01		+0.2	+1.2
8	Hd.–Pk.	EI	−0.01		+0.5	−0.1
11	U.–T.	EI	−0.01		+0.1	+0.4
16	U.–T.	EI	....		....	−1.3
17	Hd.–Pk.	EI	−0.03		+0.1	−1.2
18	U.–T.	EI	....		−0.3	+0.5
20	Hd.–Pk.	WI	−0.02		−0.6	0.0
25	U.–Hd.	WI	+0.11		−0.1	+0.5
28	U.–T.	WI	+0.01		+1.0	+0.7
Mar. 5	U.–Pk.	WI	−0.03		+0.5	+0.9
7	U.–T.	WI	−0.02		+0.2	[+2.9]
9	U.–Pk.	WI	−0.04		+0.1	−1.4
10	Hd.–T.	WI	+0.03		+0.9	−0.5
11	Hd.–T.	WI	+0.02		+0.7	−0.5
Sept. 24	*U.*	*WI*	....		*−0.6*	---
25	*Hd.*	*WI*	*+0.03*		*+0.1*	---
28	*Hd.*	*WI*	*+0.01*		*0.0*	---
29	*U.*	*WI*	....		*+0.7*	---
30	*T.*	*WI*	*−0.02*		*0.0*	---
Oct. 1	*Hd.*	*WI*	*+0.02*		*+0.7*	---
4	*Hd.*	*EI*	*+0.02*		*−0.2*	---
5	*T.*	*EI*	*−0.03*		*+0.2*	---
6	*U.*	*EI*	*+0.03*		*+0.4*	---
7	*Hd.*	*EI*	*0.00*		*0.0*	---
8	*T.*	*EI*	*0.00*		*−0.1*	---
12	*U.*	*EI*	*+0.01*		*−0.2*	---
16	T.	EI	−0.04		−0.2	---

			s	″ A	″ B
1909					
Oct. 19	Hd.	EI	+0.05	−0.2	---
Dec. 5	U.	EI	−0.02	+0.1	---
6	Hd.	EI	+0.02	−0.2	---
8	U.	EI	0.00	−1.3	---
16	U.	EI	+0.02	+1.2	---
18	Hd.	EI	0.00	−0.2	---
20	Hd.	EI	0.00	+0.8	---
21	U.	EI	0.00	+0.7	---
23	Hd.	EI	−0.02	+0.4	---
1910					
Jan. 7	T.	WI	−0.01	+1.2	---
8	U.	WI	0.00	−0.1	---
9	Hd.	WI	+0.05	+0.1	---
10	T.	WI	+0.02	+0.5	---
15	Hd.	WI	+0.02	+0.3	---
16	U.	WI	+0.04	+0.3	---
Mean	1909.62–1909.60 1909.15		+0.005	+0.23	−0.06
Corr			−0.081	+0.03	+0.03

α^2 Geminorum

			h m s	° ′ ″	″ A	″ B
			7 28 51.574	+32 5 12.85,	12.89	
1909						
Feb. 6	Hd.–Pk.	EI	+0.04		+0.7	−1.0
8	Hd.–Pk.	EI	+0.07		−0.3	−0.6
11	U. T.	EI	−0.02		+0.4	0.0
16	U.–T.	EI	−0.04		+0.9	+0.2
17	Hd.–Pk.	EI	−0.01		+0.4	−1.1
18	U.–T.	EI	−0.04		−0.6	−0.5
20	Hd.–Pk.	WI	+0.04		−0.7	−0.1
25	U.–Hd.	WI	+0.02		−0.5	−0.5
28	U.–T.	WI	+0.02		−0.5	−0.5
Mar. 5	U.–Pk.	WI	+0.03		−1.2	+0.3
7	U.–T.	WI	+0.07		−0.2	0.0
9	U.–Pk.	WI	0.00		−0.1	−1.3
10	Hd.–T.	WI	+0.01		−0.8	−0.2
11	Hd.–T.	WI	+0.04		+0.2	−0.2
Sept. 24	*U.*	*WI*	*+0.02*		*−0.4*	---
25	*Hd.*	*WI*	*−0.03*		*−0.2*	---
28	*Hd.*	*WI*	*−0.03*		*−0.2*	---
29	*U.*	*WI*	*+0.06*		*−1.4*	---
30	*T.*	*WI*	*+0.05*		*+0.2*	---
Oct. 1	*Hd.*	*WI*	*+0.02*		*−0.5*	---
4	*Hd.*	*EI*	*−0.05*		*−0.4*	---
5	*T.*	*EI*	*+0.03*		*−0.2*	---
6	*U.*	*EI*	*+0.02*		*0.0*	---
7	*Hd.*	*EI*	*+0.02*		*+0.3*	---
8	*T.*	*EI*	*0.00*		*+0.4*	---
12	*U.*	*EI*	*+0.05*		*+0.1*	---
16	T.	EI	+0.05		+1.3	---
19	Hd.	EI	+0.02		−0.3	---
Dec. 5	U.	EI	+0.05		+0.8	---
6	Hd.	EI	+0.01		−0.5	---
8	U.	EI	+0.05		−0.8	---
16	U.	EI	+0.03		+0.8	---
18	Hd.	EI	−0.01		+0.2	---
20	Hd.	EI	+0.07		−0.5	---
21	U.	EI	−0.02		+0.2	---
23	Hd.	EI	+0.01		0.0	---
1910						
Jan. 7	T.	WI	+0.10		+1.2	---
8	U.	WI	+0.10		+0.1	---
9	Hd.	WI	+0.03		−0.4	---
10	T.	WI	+0.02		−0.1	---
15	Hd.	WI	+0.02		−0.2	---
16	U.	WI	+0.06		+0.4	---
Mean	1909.58–1909.58 1909.15		+0.027		0.00	−0.39
Corr			−0.081		+0.05	+0.05

25 Monocerotis

	h m s	° ′ ″	″
	7 32 48.196	−3 54 33.75,	33.75

1909				A	B
Feb.	6	Hd.–Pk.	EI	−0.3	−0.8
	8	Hd.–Pk.	EI	+0.1	−0.8
	11	U.–T.	EI	+0.2	+0.5
	16	U.–T.	EI	−0.8	−0.2
	17	Hd.–Pk.	EI	−0.3	−1.5
	20	Hd.–Pk.	WI	−1.1	+0.4
	25	U.–Hd.	WI	−0.2	−0.2
	28	U.–T.	WI	−0.6	−0.2
Mar.	5	U.–Pk.	WI	−1.0	+0.9
	7	U.–T.	WI	−0.7	−0.5
	9	U.–Pk.	WI	−0.3	−1.4
	10	Hd.–T.	WI	+0.5	−0.1
	11	Hd.–T.	WI	+0.1	−0.7
Mean		1909.15		−0.34	−0.35
Corr				+0.02	+0.02

α Canis Minoris

	h m s	° ′ ″	″
	7 34 35.481[1]	+5 27 22.04[1]	---

1909				A	B
Sept.	*24*	*U.*	*WI*	*0.0*	---
	25	*Hd.*	*WI*	*+0.1*	---
	28	*Hd.*	*WI*	*+0.9*	---
	29	*U.*	*WI*	*−0.2*	---
	30	*T.*	*WI*	*+2.5*	---
Oct.	*1*	*Hd.*	*WI*	*+1.0*	---
	4	*Hd.*	*EI*	*+0.1*	---
	5	*T.*	*EI*	*+0.6*	---
	6	*U.*	*EI*	*+1.1*	---
	7	*Hd.*	*EI*	*+0.8*	---
	8	*T.*	*EI*	*−0.3*	---
	12	*U.*	*EI*	*+1.2*	---
	16	*T.*	*EI*	*+0.6*	---
	19	Hd.	EI	−0.3	---
Dec.	5	U.	EI	+0.1	---
	6	Hd.	EI	0.0	---
	8	U.	EI	−0.3	---
	16	U.	EI	+0.8	---
	18	Hd.	EI	+1.4	---
	20	Hd.	EI	+1.6	---
	21	U.	EI	+1.3	---
	23	Hd.	EI	+1.1	---
1910					
Jan.	7	T.	WI	+0.8	---
	8	U.	WI	−0.4	---
	9	Hd.	WI	+0.3	---
	10	T.	WI	+1.0	---
	15	Hd.	WI	+0.5	---
	16	U.	WI	+0.4	---
Mean		1909.98–1909.97		+0.55	---
Corr				+0.03	---

24 Lyncis

	h m s	° ′ ″	″
	7 35 23.920	+58 55 18.83,	18.83

1909				A	B
Feb.	6	Hd.–Pk.	EI	+1.3	−1.6
	8	Hd.–Pk.	EI	+0.5	−0.5
	11	U.–T.	EI	+0.4	+1.2
	16	U.–T.	EI	−0.5	0.0
	17	Hd.–Pk.	EI	+0.1	−0.4
	18	U.–T.	EI	−1.1	---
	20	Hd.–Pk.	WI	−0.9	+0.9
	25	U.–Hd.	WI	−0.4	−1.3
	28	U.–T.	WI	+0.2	−0.5
Mar.	5	U.–Pk.	WI	−0.4	+0.4
	7	U.–T.	WI	−0.3	−1.4
	9	U.–Pk.	WI	+0.5	−0.8
	10	Hd.–T.	WI	+0.6	−0.6
	11	Hd.–T.	WI	+0.3	+0.2
Mean		1909.15–1909.15		+0.02	−0.34
Corr				+0.06	+0.06

β Geminorum

	h m s	° ′ ″	″
	7 39 48.639	+28 14 39.33	---

1909				A	B
Sept.	*24*	*U.*	*WI*	*−0.4*	---
	25	*Hd.*	*WI*	*−0.3*	---
	28	*Hd.*	*WI*	*+0.3*	---
	29	*U.*	*WI*	*+0.8*	---
	30	*T.*	*WI*	*+1.1*	---
Oct.	*1*	*Hd.*	*WI*	*+0.1*	---
	4	*Hd.*	*EI*	*−0.9*	---
	5	*T.*	*EI*	*+0.3*	---
	6	*U.*	*EI*	*−0.2*	---
	7	*Hd.*	*EI*	*+0.4*	---
	8	*T.*	*EI*	*−0.6*	---
	12	*U.*	*EI*	*+1.3*	---
	16	*T.*	*EI*	*+0.6*	---
	19	Hd.	EI	−0.9	---
Dec.	5	U.	EI	+0.5	---
	6	Hd.	EI	−0.3	---
	8	U.	EI	−0.3	---
	16	U.	EI	+0.7	---
	18	Hd.	EI	+0.1	---
	20	Hd.	EI	+0.6	---
	21	U.	EI	+0.6	---
	23	Hd.	EI	−0.1	---
1910					
Jan.	7	T.	WI	+1.0	---
	8	U.	WI	+0.4	---
	9	Hd.	WI	0.0	---
	10	T.	WI	+1.7	---
	15	Hd.	WI	+0.4	---
	16	U.	WI	+0.3	---
Mean		1909.98–1909.97		+0.31	---
Corr				+0.05	---

ξ Argûs

	h m s	° ′ ″	″
	7 45 30.549	−24 38 0.15,	0.15

1909				A	B
Feb.	6	Hd.–Pk.	EI	−0.7	---
	17	Hd.–Pk.	EI	−0.4	−0.3
	20	Hd.–Pk.	WI	---	+1.0
	28	U.–T.	WI	---	+1.5
Mar.	7	U.–T.	WI	+1.5	---
	10	Hd.–T.	WI	−0.4	−0.9
	11	Hd.–T.	WI	+1.4	−0.1
Mean		1909.16–1909.16		+0.28	+0.24
Corr				−0.01	−0.01

26 Lyncis

	h m s	° ′ ″	″
	7 48 9.862	+47 47 55.35,	55.35

1909				A	B
Feb.	6	Hd.–Pk.	EI	−0.13	
	8	Hd.–Pk.	EI	+0.9	−0.1
	11	U.–T.	EI	+0.5	0.0
	16	U.–T.	EI	−0.3	+0.1
	17	Hd.–Pk.	EI	−0.01	---
	18	U.–T.	EI	−0.9	−0.7
Mar.	9	U.–Pk.	WI	−0.12	+0.4
	10	Hd.–T.	WI	−0.08	+0.5
	11	Hd.–T.	WI	+0.11	+0.6
Mean		1909.15–1909.15		+0.06	−0.3
Corr				−0.08	+0.06

[1] Center of orbit.

			s	″ A	″ B
1909					
Feb. 20	Hd.–Pk.	WI	−0.02	0.0	+0.2
25	U.–Hd.	WI	−0.21	---	−0.
28	U. T.	WI	----	---	−0.4
Mar. 5	U.–Pk.	WI	−0.08	−0.5	+0.4
10	Hd.–T.	WI	−0.05	[+2.3]	+0.9
11	Hd.–T.	WI	+0.03	+0.5	+0.4
Mean 1909.14–1909.14			−0.069		+0.08−0.08
1909.14					
Corr			−0.081		+0.06+0.06

ω Cancri

h m s 7 55 29.236 ° ′ ″ +25 38 23.34, ″ 23.34

				″ A	″ B
1909					
Feb. 6	Hd.–Pk.	EI	----	−0.5	---
8	Hd.–Pk.	EI	+0.03	+0.5	+0.1
11	U.–T.	EI	+0.03	+1.1	+0.6
16	U.–T.	EI	−0.03	−0.9	−0.1
17	Hd.–Pk.	EI	+0.02	−1.2	−0.8
18	U.–T.	EI	----	−0.1	+0.4
20	Hd.–Pk.	WI	−0.02	+0.2	−0.8
25	U.–Hd.	WI	−0.06	+0.1	−1.4
28	U.–T.	WI	+0.03	---	0.0
Mar. 5	U.–Pk.	WI	+0.05	+0.9	+1.3
10	Hd.–T.	WI	+0.04	−0.3	+0.2
11	Hd.–T.	WI	+0.01	−0.1	−0.1
Mean 1909.15–1909.14			+0.010		−0.03−0.05
1909.15					
Corr			−0.081		+0.04+0.04

χ Geminorum

h m s 7 57 59.606 ° ′ ″ +28 2 50.23, ″ 50.23

				″ A	″ B
1909					
Feb. 6	Hd.–Pk.	EI	----	0.0	---
8	Hd.–Pk.	EI	−0.05	+1.2	+0.7
11	U.–T.	EI	−0.05	+0.2	+0.4
16	U.–T.	EI	+0.10	−0.7	0.0
17	Hd.–Pk.	EI	−0.04	−0.4	−0.6
18	U.–T.	EI	−0.01	−1.2	−0.6
20	Hd.–Pk.	WI	−0.01	−0.2	+0.8
25	U.–Hd.	WI	−0.07	+1.8	−0.3
28	U.–T.	WI	−0.08	+1.2	−0.2
Mar. 5	U.–Pk.	WI	−0.03	+0.8	+1.2
10	Hd.–T.	WI	−0.10	+0.8	−0.2
11	Hd.–T.	WI	−0.01	+0.6	−0.3
Mean 1909.15–1909.14			−0.032		+0.34+0.08
1909.15					
Corr			−0.081		+0.05+0.05

27 Lyncis

h m s 8 1 41.686 ° ′ ″ +51 46 1.02, ″ 1.02

				″ A	″ B
1909					
Feb. 8	Hd.–Pk.	EI	−0.08	−0.3	−0.3
11	U.–T.	EI	−0.19	−1.1	−1.1
16	U.–T.	EI	−0.06	−2.2	+0.4
17	Hd.–Pk.	EI	+0.01	−1.0	−0.6
18	U.–T.	EI	−0.08	−1.5	−0.6
20	Hd.–Pk.	WI	−0.03	−1.5	+0.7
25	U.–Hd.	WI	−0.18	−0.3	−0.1
28	U.–T.	WI	−0.08	+0.4	+0.2
Mar. 5	U.–Pk.	WI	−0.04	+0.1	−0.5
10	Hd.–T.	WI	+0.01	0.0	−0.5
11	Hd.–T.	WI	+0.02	+0.8	+0.2
Mean 1909.15			−0.064		−0.60−0.20
Corr			−0.081		+0.06+0.06

Groombridge 1119

h m s 8 8 ---- ° ′ ″ ″ +88 54 16.74, 16.74

				″ A	″ B
1910					
Oct. 23	Fn.	EII	----	−1.3	−0.3
29	Fn.	WII	----	−0.4	−1.2
31	Fn.	WII	----	−2.0	−1.0
Mean 1910.82			----	−1.23	−0.83
Corr			----	+0.09	+0.09

Groombridge 1119 s. p.

h m s 8 8 ---- ° ′ ″ ″ +88 54 16.74, 16.74

				″ A	″ B
1910					
Oct. 24	Fn.	WII	----	+0.2	−1.3
25	Fn.	WII	----	+0.7	−0.1
31	Fn.	WII	----	+0.9	−0.3
Mean 1910.82			----	+0.60	−0.57
Corr			----	−0.09	−0.09

20 Puppis

h m s 8 9 11.767 ° ′ ″ ″ −15 30 59.53, 59.53

				″ A	″ B
1909					
Feb. 8	Hd.–Pk.	EI	−0.01	+1.1	−0.4
11	U.–T.	EI	+0.06	+1.7	+0.5
16	U.–T.	EI	+0.12	−0.8	−1.1
17	Hd.–Pk.	EI	+0.05	−0.6	−1.8
18	U.–T.	EI	+0.02	+1.7	−0.1
20	Hd.–Pk.	WI	+0.08	−0.1	0.0
25	U.–Hd.	WI	−0.02	−0.4	−0.6
28	U.–T.	WI	+0.04	−0.3	0.0
Mar. 5	U.–Pk.	WI	+0.05	−0.3	−0.6
7	U.–T.	WI	----	−0.5	---
10	Hd.–T.	WI	+0.10	+0.6	+0.3
11	Hd.–T.	WI	+0.03	0.0	−0.4
Mean 1909.15–1909.15			+0.047		+0.18−0.38
1909.15					
Corr			−0.081		+0.01+0.01

β Cancri

h m s 8 11 38.128 ° ′ ″ ″ +9 27 48.67, 48.67

				″ A	″ B
1909					
Feb. 8	Hd.–Pk.	EI	+0.04	+0.9	+0.3
11	U.–T.	EI	+0.01	---	−1.1
16	U.–T.	EI	+0.01	+0.2	0.0
17	Hd.–Pk.	EI	+0.01	−0.3	−1.2
18	U.–T.	EI	0.00	+0.8	−0.8
20	Hd.–Pk.	WI	+0.08	−0.3	−0.2
25	U.–Hd.	WI	+0.02	+0.4	+0.4
28	U.–T.	WI	+0.07	+0.4	+0.5
Mar. 5	U.–Pk.	WI	+0.03	---	+0.5
7	U.–T.	WI	+0.08	−0.9	−0.2
10	Hd.–T.	WI	+0.04	+0.7	−0.6
11	Hd.–T.	WI	+0.05	+0.3	−0.2
Mean 1909.15–1909.15			+0.037		+0.22−0.22
1909.15					
Corr			−0.081		+0.03+0.03

31 Lyncis

h m s 8 16 40.805 ° ′ ″ ″ +43 28 39.41, 39.41

				″ A	″ B
1909					
Feb. 8	Hd.–Pk.	EI	−0.05	+1.2	−0.1
11	U.–T.	EI	−0.07	+0.7	−1.2
16	U.–T.	EI	−0.08	+0.3	0.0
17	Hd.–Pk.	EI	0.00	+0.5	−0.6
18	U.–T.	EI	−0.17	−0.6	+0.5
20	Hd.–Pk.	WI	+0.03	+0.7	+0.7

1909			s	″ A	″ B
Feb. 25	U.–Hd.	WI	−0.11	+0.6	−0.4
28	U.–T.	WI	−0.02	−1.2	−0.4
Mar. 5	U.–Pk.	WI	−0.13	−0.1	0.0
7	U.–T.	WI	−0.11	−1.1	−0.7
10	Hd.–T.	WI	0.00	−0.5	−0.7
11	Hd.–T.	WI	−0.02	+0.1	−0.4
Mean	1909.15		−0.061	+0.05	−0.28
Corr			−0.081	+0.05	+0.05

o Ursæ Majoris

h m s 8 22 47.851 ° ′ ″ +61 1 11.68, ″ 11.69

1909				A	B
Feb. 8	Hd.–Pk.	EI	+0.09	0.0	0.0
11	U.–T.	EI	−0.05	---	−0.1
16	U.–T.	EI	−0.11	0.0	+0.3
17	Hd.–Pk.	EI	+0.04	−1.4	+0.1
18	U.–T.	EI	+0.04	---	−0.6
20	Hd.–Pk.	WI	−0.04	0.0	−0.6
25	U.–Hd.	WI	−0.11	+0.2	−0.8
28	U.–T.	WI	−0.05	0.0	−0.2
Mar. 5	U.–Pk.	WI	−0.12	−0.4	+0.1
7	U.–T.	WI	−0.01	−1.3	−1.5
10	Hd.–T.	WI	+0.13	−0.2	−1.6
11	Hd.–T.	WI	+0.04	+0.7	+0.1
Mean	1909.15–1909.16		−0.012	−0.24	−0.40
	1909.15				
Corr			−0.081	+0.06	+0.06

η Cancri

h m s 8 27 30.389 ° ′ ″ +20 44 50.86, ″ 50.86

1909				A	B
Feb. 8	Hd.–Pk.	EI	+0.01	+1.0	+0.2
11	U.–T.	EI	0.00	+0.3	+0.9
16	U.–T.	EI	+0.04	+0.6	0.0
17	Hd.–Pk.	EI	0.00	+0.2	0.0
18	U.–T.	EI	−0.01	−0.5	+0.4
20	Hd.–Pk.	WI	0.00	−0.2	−0.2
25	U.–Hd.	WI	−0.09	+0.1	−0.8
28	U.–T.	WI	−0.04	−0.2	+0.7
Mar. 5	U.–Pk.	WI	−0.03	+0.5	+0.3
7	U.–T.	WI	−0.10	−0.4	+0.1
10	Hd.–T.	WI	0.00	+0.1	−0.6
11	Hd.–T.	WI	−0.04	+1.3	+0.9
Mean	1909.15		−0.022	+0.23	+0.16
Corr			−0.081	+0.04	+0.04

σ Hydræ

h m s 8 34 3.276 ° ′ ″ +3 39 28.76, ″ 28.76

1909				A	B
Feb. 8	Hd.–Pk.	EI	−0.03	+0.7	−0.2
11	U.–T.	EI	−0.01	+1.3	−0.4
16	U.–T.	EI	0.00	−1.3	−0.1
17	Hd.–Pk.	EI	−0.03	−1.6	−1.7
18	U.–T.	EI	+0.01	−0.3	−0.2
20	Hd.–Pk.	WI	+0.03	−0.5	−0.2
25	U.–Hd.	WI	0.00	+0.4	−1.0
28	U.–T.	WI	−0.05	+0.1	+1.0
Mar. 5	U.–Pk.	WI	−0.02	−0.9	−1.0
10	Hd.–T.	WI	−0.02	+0.2	−1.2
11	Hd.–T.	WI	−0.01	+0.4	−0.2
Mean	1909.15		−0.012	−0.14	−0.47
Corr			−0.081	+0.03	+0.03

δ Cancri

h m s 8 39 34.359 ° ′ ″ +18 29 8.43, ″ 8.43

1909				A	B
Feb. 8	Hd.–Pk.	EI	−0.02	+1.1	+0.2
11	U.–T.	EI	−0.03	+1.6	+0.5
16	U.–T.	EI	−0.02	−0.3	−0.1
17	Hd.–Pk.	EI	−0.07	−0.7	−0.6
18	U.–T.	EI	+0.01	+0.4	+0.4
20	Hd.–Pk.	WI	+0.02	−0.3	+0.3
25	U.–Hd.	WI	0.00	+0.2	0.0
28	U.–T.	WI	−0.04	−0.2	+0.7
Mar. 5	U.–Pk.	WI	−0.03	+0.6	−0.2
10	Hd.–T.	WI	+0.03	0.0	−0.4
11	Hd.–T.	WI	0.00	+0.3	+1.0
Mean	1909.15		−0.014	+0.25	+0.16
Corr			−0.081	+0.04	+0.04

ε Hydræ [1]

h m s 8 42 0.693 ° ′ ″ +6 44 58.55, ″ 58.55

1909				A	B
Feb. 8	Hd.–Pk.	EI	0.00	+0.6	0.0
11	U.–T.	EI	+0.02	---	−0.8
16	U.–T.	EI	+0.03	−0.2	0.0
17	Hd.–Pk.	EI	+0.04	−0.3	−1.6
18	U.–T.	EI	−0.05	−0.2	−0.5
20	Hd.–Pk.	WI	0.00	−0.3	−0.8
25	U.–Hd.	WI	−0.07	+0.1	−0.1
28	U.–T.	WI	0.00	0.0	+0.6
Mar. 5	U.–Pk.	WI	+0.01	−0.2	−0.2
10	Hd.–T.	WI	+0.07	+0.4	−0.8
11	Hd.–T.	WI	+0.01	+0.7	0.0
Mean	1909.15–1909.15		+0.005	+0.06	−0.38
Corr			−0.081	+0.03	+0.03

σ^2 Cancri *mean*

h m s 8 48 45.409 ° ′ ″ +30 55 15.01, ″ 15.01

1909				A	B
Feb. 8	Hd.–Pk.	EI	0.00	+1.3	−0.5
11	U.–T.	EI	−0.02	+0.9	+1.0
16	U.–T.	EI	−0.02	+1.3	+0.3
17	Hd.–Pk.	EI	−0.04	−0.7	−1.5
18	U.–T.	EI	−0.05	+0.3	+0.2
20	Hd.–Pk.	WI	−0.01	−0.5	−0.5
25	U.–Hd.	WI	+0.04	+0.9	0.0
28	U.–T.	WI	−0.03	+0.2	+0.7
Mar. 5	U.–Pk.	WI	−0.05	+0.4	−0.1
7	U.–T.	WI	−0.02	−0.6	+0.1
10	Hd.–T.	WI	0.00	+0.3	−0.8
11	Hd.–T.	WI	−0.04	+0.6	+0.2
Mean	1909.15		−0.020	+0.37	−0.08
Corr			−0.081	+0.05	+0.05

ι Ursæ Majoris

h m s 8 53 3.132 ° ′ ″ +48 23 44.46, ″ 44.46

1909				A	B
Feb. 8	Hd.–Pk.	EI	+0.08	+0.9	+0.9
11	U.–T.	EI	−0.04	−0.5	−0.2
16	U.–T.	EI	−0.01	−0.6	−0.2
17	Hd.–Pk.	EI	+0.04	−0.4	−0.3
18	U.–T.	EI	+0.10	−0.7	0.0
20	Hd.–Pk.	WI	+0.08	+0.3	+0.8
25	U.–Hd.	WI	−0.02	+0.3	−0.8
28	U.–T.	WI	+0.07	+0.6	+0.4
Mar. 5	U.–Pk.	WI	−0.02	−0.1	+0.3
10	Hd.–T.	WI	+0.03	+1.8	0.0
11	Hd.–T.	WI	+0.14	+0.9	+0.6
Mean	1909.15		+0.041	+0.23	+0.14
Corr			−0.081	+0.06	+0.06

[1] Triple; mean of close pair observed.

κ Ursæ Majoris

h m s ° ′ ″ ″
8 57 29.220 +47 30 47.07, 47.07

1909			A	B
Feb. 8	Hd.–Pk.	EI	−0.02	+0.8 +0.6
11	U.–T.	EI	−0.08	0.0 −1.0
16	U.–T.	EI	−0.03	+0.7 +0.1
17	Hd.–Pk.	EI	+0.08	−0.1 −0.6
18	U.–T.	EI	+0.02	−1.1 +0.2
20	Hd.–Pk.	WI	+0.01	−1.3 +0.7
25	U.–Hd.	WI	−0.13	+0.3 −0.1
28	U.–T.	WI	0.00	+0.3 +0.5
Mar. 5	U.–Pk.	WI	−0.08	0.0 +0.4
10	Hd.–T.	WI	----	+0.3 ---
11	Hd.–T.	WI	+0.08	+0.1 −0.2
Mean	1909.14–1909.15		−0.015	0.00+0.06
	1909.14			
Corr			−0.081	+0.06+0.06

σ^2 Ursæ Majoris [1]

h m s ° ′ ″ ″
9 2 29.373 +67 30 2.48, 2.48

1909			A	B
Feb. 8	Hd.–Pk.	EI	−0.04	−0.1 −0.3
11	U.–T.	EI	−0.21	+0.2 −0.3
16	U.–T.	EI	−0.07	−0.5 −0.4
17	Hd.–Pk.	EI	−0.03	−1.9 −1.8
18	U.–T.	EI	−0.17	−0.5 −1.1
20	Hd.–Pk.	WI	+0.07	−1.1 −0.4
25	U.–Hd.	WI	−0.15	+0.1 −1.3
28	U.–T.	WI	−0.14	−0.2 −0.1
Mar. 5	U.–Pk.	WI	−0.13	−0.1 +0.2
10	Hd.–T.	WI	+0.05	−1.1 −1.4
11	Hd.–T.	WI	−0.01	−0.1 −0.7
Mean	1909.15		−0.075	−0.48−0.69
Corr			−0.081	+0.07+0.07

83 Cancri

h m s ° ′ ″ ″
9 13 57.661 +18 5 14.56, 14.56

1909			A	B
Feb. 8	Hd.–Pk.	EI	−0.03	+1.1 −0.4
11	U.–T.	EI	−0.10	+0.4 +0.8
16	U.–T.	EI	−0.04	−0.9 −0.1
17	Hd.–Pk.	EI	+0.05	−0.4 −1.0
18	U.–T.	EI	+0.08	0.0 +0.2
20	Hd.–Pk.	WI	−0.03	+0.3 +1.0
25	U.–Hd.	WI	+0.06	+1.1 +0.1
28	U.–T.	WI	−0.09	0.0 +0.3
Mar. 5	U.–Pk.	WI	−0.01	−0.2 +1.1
11	Hd.–T.	WI	−0.07	−0.7 −0.2
Mean	1909.14		−0.018	+0.07+0.18
Corr			−0.081	+0.04+0.04

α Hydræ

h m s ° ′ ″ ″
9 23 9.911 −8 16 4.90, 4.90

1909			A	B
Feb. 8	Hd.–Pk.	EI	−0.05	−1.3 +0.2
11	U.–T.	EI	+0.10	−1.0 0.0
16	U.–T.	EI	+0.03	−0.3 −1.1
17	Hd.–Pk.	EI	+0.03	−0.8 −1.7
18	U.–T.	EI	+0.05	−0.4 −2.2
20	Hd.–Pk.	WI	+0.07	+0.2 −0.8
25	U.–Hd.	WI	----	−0.1 −0.2
28	U.–T.	WI	+0.01	−0.4 +0.7
Mar. 5	U.–Pk.	WI	----	−0.5 −0.6
11	Hd.–T.	WI	+0.04	+1.1 0.0
Mean	1909.14–1909.14		+0.035	−0.35−0.57
Corr			−0.081	+0.02+0.02

θ Ursæ Majoris

h m s ° ′ ″ ″
9 26 50.785 +52 5 17.60, 17.60

1909			A	B
Feb. 8	Hd.–Pk.	EI	+0.03	+0.1 0.0
11	U.–T.	EI	−0.04	−0.2 −0.8
16	U.–T.	EI	+0.04	+0.2 +0.5
17	Hd.–Pk.	EI	+0.09	−0.3 −0.2
18	U.–T.	EI	−0.04	−0.7 −0.5
20	Hd.–Pk.	WI	+0.09	−0.2 +0.4
25	U.–Hd.	WI	+0.05	+0.2 −1.9
28	U.–T.	WI	+0.04	+0.4 −0.1
Mar. 5	U.–Pk.	WI	+0.07	−0.3 +0.1
11	Hd.–T.	WI	+0.13	+0.4 +0.5
Mean	1909.14		+0.046	−0.04−0.20
Corr			−0.081	+0.06+0.06

10 Leonis Minoris

h m s ° ′ ″ ″
9 28 42.852 +36 47 51.64, 51.64

1909			A	B
Mar. 15	Hd.–T.	WI	----	−1.2 −0.7
17	Hd.–T.	WI	−0.02	−0.1 −0.2
18	U.–T.	WI	−0.07	+0.4 −0.4
20	Hd.–T.	WI	+0.05	−0.6 +0.1
21	U.–Pk.	WI	−0.06	−0.8 −0.1
22	Hd.–T.	WI	−0.06	+0.3 −0.3
23	U.–Pk.	EI	+0.02	−0.5 +0.6
26	U.–Pk.	EI	−0.03	−0.4 +0.2
28	U.–Pk.	EI	−0 03	−0.2 +0.3
30	U.–Pk.	EI	+0.03	−0.4 +0.4
31	Hd.–T.	EI	+0.02	−0.8 −0.3
Apr. 3	Hd.–T.	EI	+0.01	−0.9 0.0
Mean	1909.23–1909.23		−0.013	−0.43−0.03
Corr			−0.081	+0.05+0.05

o Leonis

h m s ° ′ ″ ″
9 36 20.941 +10 18 8.23, 8.23

1909			A	B
Mar. 15	Hd.–T.	WI	−0.01	−0.8 −1.1
17	Hd.–T.	WI	+0.04	−0.1 −1.3
18	U.–T.	WI	+0.05	+0.3 0.0
20	Hd.–T.	WI	0.00	−0.2 −0.3
21	U.–Pk.	WI	+0.01	+0.4 +0.4
22	Hd.–T.	WI	−0.03	−0.2 −1.1
23	U.–Pk.	EI	+0.01	+0.4 +0.1
26	U.–Pk.	EI	+0.01	−0.2 +0.8
28	U.–Pk.	EI	+0.01	+0.2 −0.1
30	U.–Pk.	EI	0.00	−0.2 −0.2
31	Hd.–T.	EI	+0.06	−0.5 −0.4
Apr. 3	Hd.–T.	EI	+0.03	+0.2 +1.0
Mean	1909.23		+0.015	−0.06−0.18
Corr			−0.081	+0.03+0.03

ε Leonis

h m s ° ′ ″ ″
9 40 44.717 +24 11 20.47, 20.47

1909			A	B
Mar. 15	Hd.–T.	WI	−0.01	−0.3 +0.3
17	Hd.–T.	WI	−0.02	+0.1 −1.2
18	U.–T.	WI	+0.07	−0.1 +0.5
20	Hd.–T.	WI	−0.01	−0.2 +0.3
21	U.–Pk.	WI	−0.07	+2.0 +1.9
22	Hd.–T.	WI	+0.01	+0.6 −0.3
23	U.–Pk.	EI	+0.04	−0.5 +0.9
26	U.–Pk.	EI	−0.01	+0.3 −1.2
28	U.–Pk.	EI	+0.04	+0.5 +0.1
30	U.–Pk.	EI	+0.02	−0.2 −0.2
31	Hd.–T.	EI	+0.08	−0.6 +0.5
Apr. 3	Hd.–T.	EI	+0.03	+0.1 +0.5
Mean	1909.23		+0.014	+0.14+0.18
Corr			−0.081	+0.04+0.04

[1] Double; mean observed.

υ Ursæ Majoris

	h	m	s	°	′	″	″
	9	44	36.010	+59	27	45.36,	45.36
1909						A	B
Mar. 15	Hd.–T.	WI				+0.5	−0.5
17	Hd.–T.	WI				+0.7	−0.4
18	U.–T.	WI				−0.1	+0.3
20	Hd.–T.	WI				+0.1	+0.4
21	U.–Pk.	WI				+0.7	−0.9
22	Hd.–T.	WI				+0.6	−0.9
23	U.–Pk.	EI				+0.5	+0.1
26	U.–Pk.	EI				0.0	+0.6
28	U.–Pk.	EI				−1.5	−0.6
30	U.–Pk.	EI				+0.1	−0.2
31	Hd.–T.	EI				−0.1	−0.3
Apr. 3	Hd.–T.	EI				+0.1	+0.2
Mean			1909.23			+0.13	−0.18
Corr						+0.06	+0.06

μ Leonis

	h	m	s	°	′	″	″
	9	47	38.847	+26	25	52.56,	52.56
1909						A	B
Mar. 15	Hd.–T.	WI				−0.6	−0.1
17	Hd.–T.	WI				+0.1	−1.0
18	U.–T.	WI				+0.8	+0.6
20	Hd.–T.	WI				−0.1	−0.3
21	U.–Pk.	WI				+1.0	−0.1
22	Hd.–T.	WI				−0.5	−1.0
23	U.–Pk.	EI				−0.1	+0.4
26	U.–Pk.	EI				−0.4	+0.1
28	U.–Pk.	EI				+0.1	−0.3
30	U.–Pk.	EI				−0.5	+0.2
31	Hd.–T.	EI				−0.7	+0.2
Apr. 3	Hd.–T.	EI				−1.0	+0.8
Mean			1909.23			−0.16	−0.04
Corr						+0.04	+0.04

19 Leonis Minoris

	h	m	s	°	′	″	″
	9	52	10.608	+41	29	4.94,	4.94
1909						A	B
Mar. 15	Hd.–T.	WI				0.0	−0.1
17	Hd.–T.	WI				+0.2	+0.3
18	U.–T.	WI				−0.2	−0.5
20	Hd.–T.	WI				+0.2	−0.3
21	U.–Pk.	WI				+0.2	+0.7
22	Hd.–T.	WI				+0.2	−0.8
23	U.–Pk.	EI				−0.2	−0.1
26	U.–Pk.	EI				−1.1	−0.3
28	U.–Pk.	EI				−0.8	+0.3
30	U.–Pk.	EI				−1.3	−0.2
31	Hd.–T.	EI				−0.6	−0.4
Apr. 3	Hd.–T.	EI				+0.2	−0.7
Mean			1909.23			−0.27	−0.18
Corr						+0.05	+0.05

π Leonis

	h	m	s	°	′	″	″
	9	55	27.515	+8	28	35.07,	35.07
1909						A	B
Mar. 15	Hd.–T.	WI				+0.2	+0.3
17	Hd.–T.	WI				−0.5	−0.8
18	U.–T.	WI				+0.7	+0.5
20	Hd.–T.	WI				+0.7	+0.4
21	U.–Pk.	WI				−0.1	+0.6
22	Hd.–T.	WI				+0.6	−0.3
23	U.–Pk.	EI				----	+0.6
26	U.–Pk.	EI				+0.1	+0.2
28	U.–Pk.	EI				−0.4	−0.5
30	U.–Pk.	EI				−0.4	+0.9
31	Hd.–T.	EI				−0.6	+0.3
Apr. 3	Hd.–T.	EI				−0.3	+1.1
Mean			1909.23–1909.23			0.00	+0.28
Corr						+0.03	+0.03

υ^2 Hydræ

	h	m	s	°	′	″	″
1909						A	B
Mar. 15	Hd.–T.	WI	10	0	44.61	−12 37 41.2	41.1
17	Hd.–T.	WI			44.57	41.0	40.8
18	U.–T.	WI			44.58	40.6	40.5
20	Hd.–T.	WI			44.59	39.9	40.3
21	U.–Pk.	WI			44.60	39.3	40.8
22	Hd.–T.	WI			44.57	40.0	40.9
23	U.–Pk.	EI			44.59	40.3	39.8
26	U.–Pk.	EI			44.50	40.0	40.1
28	U.–Pk.	EI			44.55	40.4	41.4
30	U.–Pk.	EI			44.55	39.8	39.9
31	Hd.–T.	EI			44.64	40.7	40.1
Apr. 3	Hd.–T.	EI			44.54	40.4	39.6
Mean			1909.23	10	0 44.574	−12 37 40.30	40.44
Corr					−0.081	+0.01	+0.01

α Leonis

	h	m	s	°	′	″	″
	10	3	34.846	+12	24	26.66,	26.66
1909						A	B
Mar. 15	Hd.–T.	WI				+0.2	−0.3
17	Hd.–T.	WI				−0.7	−0.7
18	U.–T.	WI				+0.1	+0.4
20	Hd.–T.	WI				+0.4	+0.1
21	U.–Pk.	WI				+1.4	+0.6
22	Hd.–T.	WI				+0.6	−0.7
23	U.–Pk.	EI				−0.2	+0.6
26	U.–Pk.	EI				−1.1	−0.2
28	U.–Pk.	EI				+0.1	−0.2
30	U.–Pk.	EI				+0.3	−0.2
31	Hd.–T.	EI				−0.4	+0.2
Apr. 3	Hd.–T.	EI				+0.2	+0.8
Mean			1909.23			+0.08	+0.03
Corr						+0.03	+0.03

λ Hydræ

	h	m	s	°	′	″	″
	10	6	12.041	−11	54	31.78,	31.78
1909						A	B
Mar. 15	Hd.–T.	WI				−0.9	−0.8
17	Hd.–T.	WI				+0.6	−1.3
18	U.–T.	WI				+0.7	−1.5
20	Hd.–T.	WI				+0.2	+0.6
21	U.–Pk.	WI				+1.1	−0.6
22	Hd.–T.	WI				+0.2	−0.3
23	U.–Pk.	EI				0.00	−0.5
26	U.–Pk.	EI				−1.2	−1.1
28	U.–Pk.	EI				+0.2	−1.2
30	U.–Pk.	EI				+0.1	+0.4
31	Hd.–T.	EI				−0.7	+0.5
Apr. 3	Hd.–T.	EI				−0.2	+1.2
Mean			1909.23			0.00	−0.38
Corr						+0.02	+0.02

32 Ursæ Majoris

	h	m	s	°	′	″	″
	10	11	30.684	+65	33	27.90,	27.90
1909						A	B
Mar. 15	Hd.–T.	WI				+0.7	+0.5
17	Hd.–T.	WI				−0.2	−0.2
18	U.–T.	WI				−0.1	−1.0
20	Hd.–T.	WI				−0.1	−0.2
21	U.–Pk.	WI				+0.2	−0.1
22	Hd.–T.	WI				+0.1	−1.0
23	U.–Pk.	EI				+0.2	−0.3
26	U.–Pk.	EI				−0.7	−0.2
28	U.–Pk.	EI				+0.4	−0.5
30	U.–Pk.	EI				−1.0	−0.8
31	Hd.–T.	EI				0.0	−0.6
Apr. 3	Hd.–T.	EI				+0.2	+0.2
Mean			1909.23			−0.02	−0.35
Corr						+0.06	+0.06

γ Leonis *pr.*

	h	m	s	°	′	″	″
	10	15	0.740	+20	17	49.79,	49.79
1909						A	B
Mar. 15	Hd.–T.	WI	+0.01			−0.3	−1.1
17	Hd.–T.	WI	+0.06			−0.3	−0.4
18	U.–T.	WI	+0.05			+0.2	−1.4
20	Hd.–T.	WI	+0.03			−0.2	+0.1
21	U.–Pk.	WI	+0.06			+0.4	+1.2
22	Hd.–T.	WI	−0.01			−0.3	−1.4
23	U.–Pk.	EI	+0.03			+0.2	+0.9
26	U.–Pk.	EI	+0.06			+0.2	+0.3
28	U.–Pk.	EI	+0.10			+0.2	−0.1
30	U.–Pk.	EI	+0.04			−0.4	−0.6
31	Hd.–T.	EI	+0.03			−0.4	+0.1
Apr. 3	Hd.–T.	EI	+0.05			0.0	+0.4
Mean	1909.23		+0.042			−0.06	−0.17
Corr			−0.081			+0.04	+0.04

30 H. Ursæ Majoris

	h	m	s	°	′	″	″
	10	17	39.618	+66	1	18.99,	18.99
1909						A	B
Mar. 15	Hd.–T.	WI	−0.40			−0.1	+0.1
17	Hd.–T.	WI	−0.25			+0.1	−1.3
18	U.–T.	WI	−0.28			+0.4	−0.2
20	Hd.–T.	WI	−0.27			−0.1	−0.1
21	U.–Pk.	WI	−0.25			−0.5	+0.2
22	Hd.–T.	WI	−0.25			+0.3	−1.2
23	U.–Pk.	EI	−0.35			−0.2	+0.4
26	U.–Pk.	EI	−0.29			−0.8	−1.0
28	U.–Pk.	EI	−0.28			−0.1	−0.4
30	U.–Pk.	EI	−0.27			−1.4	−0.7
31	Hd.–T.	EI	−0.24			+0.6	−0.1
Apr. 3	Hd.–T.	EI	−0.16			−0.7	+0.2
Mean	1909.23		−0.274			−0.21	−0.34
Corr			−0.081			+0.06	+0.06

31 Leonis Minoris

	h	m	s	°	′	″	″
	10	22	41.028	+37	10	7.20,	7.20
1909						A	B
Mar. 15	Hd.–T.	WI	−0.06			+0.1	+0.1
17	Hd.–T.	WI	−0.03			−0.2	+0.1
18	U.–T.	WI	0.00			+0.5	−1.0
20	Hd.–T.	WI	+0.05			+0.6	0.0
21	U.–Pk.	WI	+0.02			+1.1	+2.2
22	Hd.–T.	WI	−0.05			−0.3	−0.3
23	U.–Pk.	EI	−0.05			+0.1	−0.3
26	U.–Pk.	EI	−0.04			−0.2	+0.7
28	U.–Pk.	EI	−0.05			−0.2	+0.7
30	U.–Pk.	EI	+0.03			−0.1	−0.2
31	Hd.–T.	EI	−0.04			−0.2	+0.4
Apr. 3	Hd.–T.	EI	−0.04			−0.4	0.0
Mean	1909.23		−0.022			+0.07	+0.20
Corr			−0.081			+0.05	+0.05

36 Ursæ Majoris

	h	m	s	°	′	″	″
	10	24	52.556	+56	26	32.52,	32.52
1909						A	B
Mar. 15	Hd.–T.	WI	−0.04			+1.1	+0.8
17	Hd.–T.	WI	+0.05			+0.6	−0.1
18	U.–T.	WI	+0.08			−1.2	−0.9
20	Hd.–T.	WI	+0.02			+0.7	−0.1
21	U.–Pk.	WI	0.00			−0.1	+0.8
22	Hd.–T.	WI	+0.05			+0.3	−0.3
23	U.–Pk.	EI	−0.05			−0.4	+0.3
26	U.–Pk.	EI	----			−2.2	---
28	U.–Pk.	EI	+0.06			−0.2	+0.2
30	U.–Pk.	EI	+0.03			−1.5	+0.2
31	Hd.–T.	EI	+0.06			+0.5	+0.8
Apr. 3	Hd.–T.	EI	+0.05			+1.1	+0.5
Mean	1909.23–1909.23		+0.028			−0.11	+0.20
Corr			−0.081			+0.06	+0.06

9 H. Draconis

	h	m	s	°	′	″	″
	10	27	28.435	+76	10	37.23,	37.23
1909						A	B
Mar. 15	Hd.–T.	WI	−0.19			−0.4	+0.5
17	Hd.–T.	WI	+0.04			+0.3	+0.7
18	U.–T.	WI	+0.07			−0.3	−0.4
20	Hd.–T.	WI	0.00			−0.4	+1.0
21	U.–Pk.	WI	−0.08			−0.1	+0.2
22	Hd.–T.	WI	−0.04			−0.2	−0.9
23	U.–Pk.	EI	−0.10			+0.2	−0.3
26	U.–Pk.	EI	−0.07			−0.1	+0.2
28	U.–Pk.	EI	−0.03			0.0	−1.0
30	U.–Pk.	EI	+0.03			−1.2	−1.2
31	Hd.–T.	EI	+0.01			−0.9	−0.3
Apr. 3	Hd.–T.	EI	−0.02			+0.3	+0.5
Mean	1909.23		−0.032			−0.23	−0.08
Corr			−0.081			+0.07	+0.07

42 Leonis Minoris

	h	m	s	°	′	″	″
	10	40	51.816	+31	9	23.73,	23.73
1909						A	B
Mar. 15	Hd.–T.	WI	−0.07			−0.6	+0.2
17	Hd.–T.	WI	+0.02			−0.2	−0.6
18	U.–T.	WI	+0.07			+0.6	+0.1
20	Hd.–T.	WI	0.00			−0.4	+0.2
21	U.–Pk.	WI	−0.03			+0.4	0.0
22	Hd.–T.	WI	−0.05			−0.2	+0.6
23	U.–Pk.	EI	+0.03			+0.4	+1.0
26	U.–Pk.	EI	+0.03			+0.1	+0.3
28	U.–Pk.	EI	+0.03			−0.4	−0.6
30	U.–Pk.	EI	−0.01			−0.3	−0.4
31	Hd.–T.	EI	+0.05			0.0	+0.6
Apr. 3	Hd.–T.	EI	0.00			−0.3	+1.1
Mean	1909.23		+0.006			−0.08	+0.21
Corr			−0.081			+0.05	+0.05

l Leonis

	h	m	s	°	′	″	″
	10	44	31.690	+11	1	17.74,	17.74
1909						A	B
Mar. 15	Hd.–T.	WI	−0.04			+0.2	+0.7
17	Hd.–T.	WI	0.00			−0.5	+0.2
18	U.–T.	WI	0.00			+0.7	+0.9
20	Hd.–T.	WI	−0.01			+0.4	+1.5
21	U.–Pk.	WI	+0.02			+1.0	+0.9
22	Hd.–T.	WI	+0.01			−0.1	−1.0
23	U.–Pk.	EI	+0.04			+0.8	+0.9
26	U.–Pk.	EI	+0.03			+1.2	+1.2
28	U.–Pk.	EI	+0.09			+1.0	+0.5
30	U.–Pk.	EI	+0.02			+0.6	+0.2
31	Hd.–T.	EI	+0.06			+0.7	+0.7
Apr. 3	Hd.–T.	EI	+0.01			+0.4	+1.5
Mean	1909.23		+0.019			+0.53	+0.68
Corr			−0.081			+0.03	+0.03

46 Leonis Minoris

	h	m	s	°	′	″	″
	10	48	16.920	+34	42	1.45,	1.45
1909						A	B
Mar. 15	Hd.–T.	WI	−0.06			---	+1.2
17	Hd.–T.	WI	0.00			+0.1	0.0
18	U.–T.	WI	+0.10			+0.2	−1.1
20	Hd.–T.	WI	+0.05			−0.1	+0.9
22	Hd.–T.	WI	0.00			−0.7	−0.7
23	U.–Pk.	EI	+0.05			0.0	+0.9
26	U.–Pk.	EI	+0.04			−1.2	−0.5
28	U.–Pk.	EI	+0.08			+0.1	+0.7
30	U.–Pk.	EI	+0.01			+0.3	+0.2
31	Hd.–T.	EI	−0.09			−0.4	+0.4
Apr. 3	Hd.–T.	EI	−0.02			−0.5	0.0
Mean	1909.23–1909.23		+0.015			−0.22	+0.18
Corr			−0.081			+0.05	+0.05

Groombridge 1706

h	m	s	°	′	″	″
10	52	47.014	+78	15	9.20,	9.20

1909				A	B
Mar. 15	Hd.–T.	WI	−0.02	+1.0	+0.1
17	Hd.–T.	WI	+0.19	+0.7	+0.1
18	U.–T.	WI	+0.28	+0.2	−0.9
20	Hd.–T.	WI	+0.31	+0.9	0.0
21	U.–Pk.	WI	+0.17	+1.2	−0.1
22	Hd.–T.	WI	+0.32	+0.3	−0.6
23	U.–Pk.	EI	+0.24	−0.1	+0.2
26	U.–Pk.	EI	+0.24	−0.9	−0.2
28	U.–Pk.	EI	+0.21	−0.8	−0.3
30	U.–Pk.	EI	+0.29	−0.5	0.0
31	Hd.–T.	EI	+0.14	+0.1	+0.4
Apr. 3	Hd.–T.	EI	+0.09	+0.6	+0.5
Mean	1909.23		+0.205	+0.22	−0.07
Corr			−0.081	+0.08	+0.08

β Ursæ Majoris

h	m	s	°	′	″	″
10	56	25.096	+56	51	54.14,	54.14

1909				A	B
Mar. 15	Hd.–T.	WI	+0.01	+1.0	+0.2
17	Hd.–T.	WI	+0.02	+0.5	+0.1
18	U.–T.	WI	+0.02	+0.5	−0.6
20	Hd.–T.	WI	+0.18	+0.1	+0.3
21	U.–Pk.	WI	−0.01	+1.5	−0.1
22	Hd.–T.	WI	+0.02	−0.2	−0.7
23	U.–Pk.	EI	−0.06	−0.3	+0.7
26	U.–Pk.	EI	+0.01	−0.5	+0.6
28	U.–Pk.	EI	0.00	0.0	−0.7
30	U.–Pk.	EI	+0.06	−1.3	0.0
31	Hd.–T.	EI	+0.06	−0.2	+0.5
Apr. 3	Hd.–T.	EI	+0.05	−0.9	+0.5
Mean	1909.23		+0.030	+0.02	+0.07
Corr			−0.081	+0.06	+0.06

p^4 Leonis

h	m	s	°	′	″	″
11	2	18.835	+2	26	39.81,	39.81

1909				A	B
Mar. 15	Hd.–T.	WI	+0.05	−0.6	−0.6
17	Hd.–T.	WI	+0.03	+0.2	−0.6
18	U.–T.	WI	−0.03	−0.4	−1.2
20	Hd.–T.	WI	+0.06	−1.3	−0.4
21	U.–Pk.	WI	0.00	+0.1	−0.4
22	Hd.–T.	WI	−0.01	−0.7	−1.4
23	U.–Pk.	EI	+0.02	−0.1	−1.6
26	U.–Pk.	EI	−0.01	−0.2	−0.9
28	U.–Pk.	EI	+0.07	−0.2	−2.3
30	U.–Pk.	EI	+0.06	−0.1	−0.3
31	Hd.–T.	EI	+0.02	−2.0	−1.7
Apr. 3	Hd.–T.	EI	+0.02	−1.2	+0.5
Mean	1909.23		+0.023	−0.54	−0.91
Corr			−0.081	+0.03	+0.03

ψ Ursæ Majoris

h	m	s	°	′	″	″
11	4	36.542	+44	59	13.33,	13.33

1909				A	B
Mar. 15	Hd.–T.	WI	+0.02	+0.8	0.0
17	Hd.–T.	WI	+0.06	+0.8	+1.0
18	U.–T.	WI	+0.04	−0.2	+0.2
20	Hd.–T.	WI	+0.06	+1.0	+0.8
21	U.–Pk.	WI	−0.04	---	+1.2
22	Hd.–T.	WI	+0.02	+0.2	−0.7
23	U.–Pk.	EI	−0.03	+0.3	−0.1
26	U.–Pk.	EI	−0.09	−0.4	+0.4
28	U.–Pk.	EI	−0.01	+0.1	---
30	U.–Pk.	EI	+0.01	0.0	−0.5
31	Hd.–T.	EI	+0.04	+0.1	−0.4
Apr. 3	Hd.–T.	EI	+0.09	−0.1	+1.0
Mean	1909.23–1909.22		+0.014	+0.24	+0.26
Corr			−0.081	+0.05	+0.05

δ Leonis

h	m	s	°	′	″	″
11	9	19.451	+21	1	0.99,	1.02

1909				A	B
Mar. 15	Hd.–T.	WI	+0.02	+0.8	−0.3
17	Hd.–T.	WI	0.00	+1.0	+0.6
18	U.–T.	WI	+0.05	+1.2	+0.9
20	Hd.–T.	WI	+0.02	+0.6	+0.4
21	U.–Pk.	WI	+0.04	+0.9	+1.7
22	Hd.–T.	WI	−0.02	+0.3	−0.2
23	U.–Pk.	EI	−0.03	0.0	+0.9
26	U.–Pk.	EI	+0.01	−0.3	−0.8
28	U.–Pk.	EI	−0.04	+0.2	−0.6
30	U.–Pk.	EI	+0.05	−0.2	0.0
31	Hd.–T.	EI	+0.02	−0.2	+0.5
Apr. 3	Hd.–T.	EI	−0.04	−0.5	+0.3
May 5	Hd.–T.	EI	−0.03	0.0	+0.3
6	U.–Pk.	EI	---	−0.1	---
9	U.–Pk.	EI	−0.02	+0.3	+0.9
11	U.–Pk.	EI	−0.10	−0.4	+0.1
12	Hd.–T.	EI	−0.04	−0.4	+0.2
13	Hd.–T.	EI	−0.03	−0.4	+0.8
14	U.–Pk.	WI	−0.03	−0.1	−0.2
15	Hd.–T.	WI	0.00	−0.5	−0.2
16	U.–Pk.	WI	+0.01	−0.3	+1.0
17	Hd.–T.	WI	−0.01	+0.4	+0.9
18	U.–Pk.	WI	−0.07	0.0	+0.8
23	Hd.–T.	WI	0.00	−0.1	−0.9
Dec. 5	U.	EI	+0.01	+0.1	---
16	U.	EI	−0.01	+0.5	---
18	Hd.	EI	−0.01	+0.4	---
20	Hd.	EI	+0.02	+2.2	---
21	U.	EI	−0.01	−0.5	---
23	Hd.	EI	0.00	+0.3	---
1910					
Jan. 7	T.	WI	+0.03	+0.4	---
8	U.	WI	−0.01	+0.3	---
9	Hd.	WI	−0.01	0.0	---
10	T.	WI	+0.04	−1.5	---
16	U.	WI	+0.01	+0.1	---
Mean	1909.52–1909.51 1909.29		−0.005	+0.13	+0.31
Corr			−0.081	+0.04	+0.04

φ Leonis

h	m	s	°	′	″	″
11	12	5.19	−3	9	33.0	33.1

1909					A	B
Mar. 15	Hd.–T.	WI	11	12	5.19	33.0	33.1
17	Hd.–T.	WI			5.16	33.1	33.3
18	U.–T.	WI			5.21	33.4	32.9
20	Hd.–T.	WI			5.21	31.9	33.2
21	U.–Pk.	WI			5.20	32.4	33.6
22	Hd.–T.	WI			5.17	33.9	34.7
23	U.–Pk.	EI			5.23	32.8	34.1
26	U.–Pk.	EI			5.31	33.5	33.7
28	U.–Pk.	EI			5.26	33.9	33.8
30	U.–Pk.	EI			5.23	34.1	35.0
31	Hd.–T.	EI			5.15	34.0	34.4
Apr. 3	Hd.–T.	EI			5.23	35.2	33.6
Mean	1909.23		11	12	5.212	−3 9 33.43	33.78
Corr					−0.081	+0.02	+0.02

δ Crateris

h	m	s	°	′	″	″
11	14	50.398	−14	17	29.03,	29.07

1909				A	B
Mar. 15	Hd.–T.	WI	+0.03	+0.4	−0.6
17	Hd.–T.	WI	+0.10	+0.6	+0.6
18	U.–T.	WI	+0.05	+0.1	+0.1
20	Hd.–T.	WI	+0.04	+0.8	+1.0
21	U.–Pk.	WI	+0.07	+0.9	+1.3
22	Hd.–T.	WI	+0.08	+0.5	−0.5
23	U.–Pk.	EI	+0.12	+0.1	0.0
26	U.–Pk.	EI	+0.06	+0.7	−0.2

			s	" A	" B
1909					
Mar. 28	U.–Pk.	EI	+0.09	+0.4	−0.3
30	U.–Pk.	EI	+0.05	−0.4	−0.1
31	Hd.–T.	EI	+0.08	+0.2	+0.4
Apr. 3	Hd.–T.	EI	+0.03	+0.6	+0.5
May 5	Hd.–T.	EI	+0.06	+1.0	+1.4
6	U.–Pk.	EI	+0.06	+1.5	+0.3
9	U.–Pk.	EI	+0.07	+0.8	+0.5
11	U.–Pk.	EI	+0.08	+0.3	+0.3
12	Hd.–T.	EI	+0.10	+0.6	−0.3
13	Hd.–T.	EI	+0.04	+0.1	−0.5
14	U.–Pk.	WI	+0.07	−0.2	−0.5
15	Hd.–T.	WI	+0.02	+0.2	+0.1
16	U.–Pk.	WI	+0.02	−0.7	+1.4
17	Hd.–T.	WI	+0.06	−0.3	+0.5
18	U.–Pk.	WI	+0.11	−0.4	+0.8
23	Hd.–T.	WI	+0.03	−0.3	−1.3
Dec. 5	U.	EI	+0.06	+0.2	---
16	U.	EI	+0.03	+0.5	---
18	Hd.	EI	+0.04	+0.8	---
20	Hd.	EI	+0.02	+0.1	---
23	Hd.	EI	+0.05	+0.7	---
1910					
Jan. 7	T.	WI	+0.10	+0.2	---
8	U.	WI	+0.08	−0.8	---
9	Hd.	WI	+0.05	−0.3	---
10	T.	WI	+0.07	+0.5	---
16	U.	WI	0.00	−1.5	---
Mean. 1909.50–1909.50			+0.059	+0.23	+0.20
1909.30					
Corr			−0.081	+0.01	+0.01

ι Leonis [1]

h m s 11 19 13.986 ° ′ ″ +11 1 30.41, 30.43

				" A	" B
1909					
May 5	Hd.–T.	EI	+0.08	+0.4	+0.7
6	U.–Pk.	EI	+0.03	+1.1	−0.3
9	U.–Pk.	EI	+0.08	+0.7	+1.2
11	U.–Pk.	EI	+0.04	0.0	−0.3
12	Hd.–T.	EI	+0.08	+0.1	−0.4
13	Hd.–T.	EI	+0.10	−1.0	−0.3
14	U.–Pk.	WI	+0.04	−0.1	−0.3
15	Hd.–T.	WI	+0.07	−0.7	−0.6
16	U.–Pk.	WI	+0.09	−0.2	0.0
17	Hd.–T.	WI	+0.06	−0.5	+0.4
18	U.–Pk.	WI	+0.01	+0.5	+1.7
23	Hd.–T.	WI	+0.03	−0.7	−1.7
Dec. 5	U.	EI	----	−0.1	---
16	U.	EI	+0.07	+0.2	---
18	Hd.	EI	+0.07	−0.2	---
20	Hd.	EI	+0.01	+0.4	---
23	Hd.	EI	+0.06	+0.5	---
1910					
Jan. 8	U.	WI	+0.03	−0.2	---
9	Hd.	WI	+0.08	−0.6	---
10	T.	WI	+0.05	+0.5	---
16	U.	WI	+0.05	−1.2	---
Mean. 1909.62–1909.63			+0.056	−0.05	+0.01
1909.36					
Corr			−0.081	+0.03	+0.03

τ Leonis

h m s 11 23 18.555 ° ′ ″ ″ +3 21 7.34, 7.34

				" A	" B
1909					
May 5	Hd.–T.	EI	+0.02	+1.0	−0.3
6	U.–Pk.	EI	−0.02	+1.0	+0.2
9	U.–Pk.	EI	+0.03	+1.4	−0.9
11	U.–Pk.	EI	+0.03	+0.4	−0.7
12	Hd.–T.	EI	+0.04	−0.2	−0.6
13	Hd.–T.	EI	+0.03	+0.3	−0.7
14	U.–Pk.	WI	−0.02	−0.6	---
15	Hd.–T.	WI	+0.04	−0.3	−1.6
16	U.–Pk.	WI	−0.01	−0.8	+1.0
17	Hd.–T.	WI	+0.04	+0.1	+0.2
18	U.–Pk.	WI	−0.03	−0.2	+1.0
23	Hd.–T.	WI	−0.04	−0.7	−0.6
Dec. 5	U.	EI	----	−1.0	---
16	U.	EI	−0.09	+0.5	---
18	Hd.	EI	0.00	+0.3	---
20	Hd.	EI	−0.01	+0.3	---
23	Hd.	EI	+0.06	+0.2	---
1910					
Jan. 8	U.	WI	+0.03	−0.4	---
9	Hd.	WI	+0.01	−1.3	---
10	T.	WI	+0.05	+0.2	---
16	U.	WI	+0.03	−0.4	---
Mean. 1909.62–1909.63			+0.010	−0.01	−0.27
1909.36					
Corr			−0.081	+0.03	+0.03

υ Leonis

h m s 11 32 20.440 ° ′ ″ ″ −0 19 36.32, 36.33

				" A	" B
1909					
Mar. 15	Hd.–T.	WI	+0.06	+0.6	0.0
17	Hd.–T.	WI	+0.03	+0.8	−0.2
18	U.–T.	WI	+0.03	−0.2	+0.2
20	Hd.–T.	WI	+0.05	−0.4	+1.1
21	U.–Pk.	WI	0.00	+0.7	+0.3
22	Hd.–T.	WI	+0.01	0.0	−0.4
23	U.–Pk.	EI	+0.06	−0.2	−0.3
26	U.–Pk.	EI	+0.03	−0.1	0.0
28	U.–Pk.	EI	+0.10	−0.1	[+2.5]
30	U.–Pk.	EI	+0.08	+0.8	+0.6
31	Hd.–T.	EI	+0.06	−0.6	−0.3
Apr. 3	Hd.–T.	EI	+0.09	−0.9	+0.7
May 5	Hd.–T.	EI	+0.03	+1.7	+0.8
6	U.–Pk.	EI	+0.06	+0.2	+0.5
9	U.–Pk.	EI	+0.02	+1.0	+0.6
11	U.–Pk.	EI	+0.07	−0.4	0.0
12	Hd.–T.	EI	+0.07	---	−0.2
14	U.–Pk.	WI	−0.01	−0.7	−0.2
15	Hd.–T.	WI	+0.04	−0.5	−0.6
16	U.–Pk.	WI	+0.03	−0.6	+0.4
17	Hd.–T.	WI	+0.04	−0.2	+0.1
18	U.–Pk.	WI	+0.05	+0.1	0.0
23	Hd.–T.	WI	0.00	−1.4	−1.1
Dec. 5	U.	EI	----	−0.4	---
16	U.	EI	+0.02	+1.0	---
18	Hd.	EI	+0.04	−0.5	---
20	Hd.	EI	+0.01	0.0	---
23	Hd.	EI	−0.01	+0.1	---
1910					
Jan. 8	U.	WI	0.00	+0.1	---
9	Hd.	WI	−0.02	+0.2	---
10	T.	WI	+0.06	+0.6	---
16	U.	WI	+0.04	−0.9	---
Mean. 1909.48–1909.49			+0.037	−0.01	+0.09
1909.30					
Corr			−0.081	+0.03	+0.03

3 Draconis

h m s 11 37 27.777 ° ′ ″ ″ +67 14 34.97, 34.97

				" A	" B
1909					
Mar. 15	Hd.–T.	WI	−0.11	+0.3	+0.4
17	Hd.–T.	WI	+0.03	+1.5	−0.4
18	U.–T.	WI	−0.02	−0.3	+0.6
20	Hd.–T.	WI	−0.04	+0.2	0.0
21	U.–Pk.	WI	−0.11	+0.8	0.0

[1] Double; s. pr. component observed.

1909			s	″ A	″ B
Mar. 22	Hd.–T.	WI	+0.06	+0.7	−1.0
23	U.–Pk.	EI	−0.02	+0.6	−0.2
26	U.–Pk.	EI	−0.03	+0.1	+0.3
28	U.–Pk.	EI	−0.02	−0.4	−0.2
30	U.–Pk.	EI	+0.10	−0.5	−0.3
31	Hd.–T.	EI	+0.07	−0.7	+0.1
Apr. 3	Hd.–T.	EI	+0.10	−0.5	+2.1
Mean	1909.23		+0.001	+0.15	+0.12
Corr			−0.081	+0.06	+0.06

ζ Crateris

h m s 11 40 11.965 ° ′ ″ −17 51 1.18, ″ 1.17

1909				A	B
May 5	Hd.–T.	EI	+0.07	+0.4	+1.3
6	U.–Pk.	EI	+0.12	+0.8	+0.4
9	U.–Pk.	EI	+0.12	+0.5	+0.6
11	U.–Pk.	EI	+0.07	+0.4	−0.9
12	Hd.–T.	EI	+0.12	−0.2	+0.6
14	U.–Pk.	WI	+0.01	−0.6	+0.3
15	Hd.–T.	WI	+0.02	−0.1	−0.4
16	U.–Pk.	WI	+0.04	+0.4	+0.4
17	Hd.–T.	WI	+0.04	+0.2	+1.2
18	U.–Pk.	WI	+0.01	+0.9	+1.7
23	Hd.–T.	WI	+0.07	−1.1	−1.5
Dec. 5	U.	EI	+0.09	+0.1	---
16	U.	EI	+0.01	0.0	---
20	Hd.	EI	+0.04	−0.1	---
23	Hd.	EI	+0.06	+0.9	---
1910					
Jan. 8	U.	WI	+0.02	−0.1	---
9	Hd.	WI	+0.01	−0.2	---
10	T.	WI	+0.06	+0.6	---
16	U.	WI	+0.02	−0.4	---
Mean	1909.63–1909.63 1909.36		+0.053	+0.13	+0.34
Corr			−0.081	0.00	0.00

χ Ursæ Majoris

h m s 11 41 18.195 ° ′ ″ +48 16 42.44, ″ 42.44

1909				A	B
Mar. 15	Hd.–T.	WI	−0.02	+1.2	+1.1
17	Hd.–T.	WI	+0.02	+0.6	−0.5
18	U.–T.	WI	−0.02	+0.3	+0.4
20	Hd.–T.	WI	+0.06	+0.6	−1.3
21	U.–Pk.	WI	−0.02	+0.8	−0.2
22	Hd.–T.	WI	+0.06	+0.6	+0.7
23	U.–Pk.	EI	−0.08	−0.5	−0.3
26	U.–Pk.	EI	+0.03	---	+0.4
28	U.–Pk.	EI	+0.03	−0.8	+0.2
30	U.–Pk.	EI	−0.03	−0.6	−0.7
31	Hd.–T.	EI	+0.03	−0.2	+0.3
Apr. 3	Hd.–T.	EI	+0.08	+0.2	+0.5
Mean	1909.23–1909.23 1909.23		+0.012	+0.20	+0.05
Corr			−0.081	+0.06	+0.06

β Leonis

h m s 11 44 28.232 ° ′ ″ +15 4 30.82, ″ 30.84

1909				A	B
Mar. 15	Hd.–T.	WI	−0.01	0.0	−1.1
17	Hd.–T.	WI	+0.03	0.0	−0.5
18	U.–T.	WI	+0.01	+0.6	+0.6
20	Hd.–T.	WI	0.00	+0.4	+0.8
21	U.–Pk.	WI	+0.05	−0.2	+0.5
22	Hd.–T.	WI	+0.06	−0.6	−0.2
23	U.–Pk.	EI	−0.02	−0.7	−0.1
26	U.–Pk.	EI	+0.09	---	−0.5

1909			s	″ A	″ B
Mar. 28	U.–Pk.	EI	+0.03	+0.2	+0.2
30	U.–Pk.	EI	+0.05	−0.8	−0.3
31	Hd.–T.	EI	+0.03	−0.1	+0.9
Apr. 5	Hd.–T.	EI	−0.04	−0.7	+1.2
May 5	Hd.–T.	EI	−0.03	−0.1	+0.1
6	U.–Pk.	EI	+0.04	+0.2	−0.2
9	U.–Pk.	EI	−0.01	+0.4	−0.4
11	U.–Pk.	EI	+0.03	−0.6	−0.3
12	Hd.–T.	EI	+0.01	−0.6	−0.4
14	U.–Pk.	WI	+0.02	−1.2	−1.0
15	Hd.–T.	WI	+0.04	---	−0.6
16	U.–Pk.	WI	0.00	−0.4	+0.4
17	Hd.–T.	WI	+0.03	+0.2	+1.0
18	U.–Pk.	WI	0.00	0.0	−0.7
23	Hd.–T.	WI	+0.04	−0.8	−0.4
Dec. 5	*U.*	*EI*	*+0.01*	*−0.4*	---
16	U.	EI	+0.03	+0.6	---
18	Hd.	EI	+0.03	−0.1	---
20	Hd.	EI	−0.01	+0.7	---
23	Hd.	EI	+0.01	+0.3	---
1910					
Jan. 7	T.	WI	−0.07	+0.5	---
8	U.	WI	+0.04	0.0	---
9	Hd.	WI	+0.02	−0.1	---
10	T.	WI	0.00	+0.7	---
16	U.	WI	+0.04	−0.9	---
Mean	1909.49–1909.50 1909.29		+0.017	−0.10	−0.04
Corr			−0.081	+0.04	+0.04

γ Ursæ Majoris

h m s 11 49 6.150 ° ′ ″ +54 11 42.61, ″ 42.61

1909				A	B
Mar. 15	Hd.–T.	WI	−0.02	+1.2	+0.7
17	Hd.–T.	WI	+0.01	+0.9	+1.0
18	U.–T.	WI	−0.05	+0.2	+0.6
20	Hd.–T.	WI	+0.11	+0.5	[−1.9]
21	U.–Pk.	WI	0.00	+0.6	+0.7
22	Hd.–T.	WI	−0.02	+0.8	−0.7
23	U.–Pk.	EI	−0.05	+0.5	+1.1
26	U.–Pk.	EI	−0.03	−0.3	0.0
28	U.–Pk.	EI	−0.03	---	+0.1
30	U.–Pk.	EI	−0.01	0.0	+0.6
31	Hd.–T.	EI	+0.02	+0.1	−0.1
Apr. 3	Hd.–T.	EI	+0.05	−0.8	+0.7
Mean	1909.23–1909.22 1909.23		−0.002	+0.34	+0.43
Corr			−0.081	+0.06	+0.06

π Virginis

h m s 11 56 15.661 ° ′ ″ +7 6 58.26, ″ 58.27

1909				A	B
Mar. 15	Hd.–T.	WI	+0.10	+0.7	−0.4
17	Hd.–T.	WI	+0.07	+0.7	−0.4
20	Hd.–T.	WI	+0.09	0.0	+0.9
21	U.–Pk.	WI	----	+0.1	+0.3
22	Hd.–T.	WI	+0.05	+0.1	−0.4
23	U.–Pk.	EI	+0.06	−0.3	−0.1
26	U.–Pk.	EI	+0.06	+0.3	+1.1
28	U.–Pk.	EI	+0.15	---	−0.4
30	U.–Pk.	EI	+0.07	---	+0.1
31	Hd.–T.	EI	+0.07	−0.1	+0.8
Apr. 3	Hd.–T.	EI	+0.07	−0.9	+0.9
Dec. 5	*U.*	*EI*	*+0.03*	*+0.3*	---
16	U.	EI	+0.02	+0.2	---
18	Hd.	EI	+0.06	+0.5	---
20	Hd.	EI	0.00	+0.4	---
23	Hd.	EI	+0.04	+0.4	---

				s	″ A	″ B
1910						
Jan. 7	T.	WI		+0.05	+0.8	---
8	U.	WI		0.00	+0.2	---
9	Hd.	WI		+0.02	−0.3	---
10	T.	WI		+0.05	+1.5	---
16	U.	WI		+0.06	+0.1	---
Mean	1909.59–1909.61			+0.057	+0.24	+0.22
	1909.23					
Corr				−0.081	+0.03	+0.03

o Virginis

h m s 12 0 37.515 ° ′ ″ +9 13 58.02, ″ 58.02

				s	″ A	″ B
1909						
Mar. 15	Hd.–T.	WI		+0.02	+0.8	−0.3
17	Hd.–T.	WI		+0.01	+0.8	+0.1
20	Hd.–T.	WI		0.00	+0.4	+1.3
21	U.–Pk.	WI		+0.11	−0.3	+0.9
22	Hd.–T.	WI		+0.03	+0.8	−1.0
23	U.–Pk.	EI		0.00	−0.1	+1.0
26	U.–Pk.	EI		+0.08	+0.2	+0.7
28	U.–Pk.	EI		+0.03	−0.1	0.0
30	U.–Pk.	EI		+0.08	+0.5	+0.8
31	Hd.–T.	EI		−0.01	+0.4	+0.3
Apr. 3	Hd.–T.	EI		+0.04	−0.2	+1.4
May 5	Hd.–T.	EI		+0.01	+0.9	+1.2
6	U.–Pk.	EI		0.00	+1.1	+0.1
9	U.–Pk.	EI		+0.01	+1.4	+1.2
11	U.–Pk.	EI		0.00	+0.4	+0.1
12	Hd.–T.	EI		+0.07	−0.2	−0.3
14	U.–Pk.	WI		+0.08	0.0	0.0
15	Hd.–T.	WI		+0.01	+0.3	0.0
16	U.–Pk.	WI		+0.01	+0.2	+1.6
17	Hd.–T.	WI		----	−0.2	+0.4
18	U.–Pk.	WI		+0.01	+0.6	+1.7
23	Hd.–T.	WI		+0.03	−0.3	−1.1
Dec. 5	*U.*	*EI*		*+0.05*	*+0.5*	---
16	U.	EI		+0.01	+2.1	---
18	Hd.	EI		0.00	−0.5	---
20	Hd.	EI		−0.02	+0.7	---
23	Hd.	EI		+0.02	+0.5	---
1910						
Jan. 7	T.	WI		0.00	+1.1	---
8	U.	WI		+0.02	+0.6	---
9	Hd.	WI		0.00	+0.1	---
10	T.	WI		+0.05	+0.9	---
16	U.	WI		−0.01	−0.2	---
Mean	1909.50–1909.50			+0.023	+0.41	+0.46
	1909.30					
Corr				−0.081	+0.03	+0.03

ε Corvi

h m s 12 5 29.642 ° ′ ″ −22 7 9.34, ″ 9.34

				s	″ A	″ B
1909						
Mar. 15	Hd.–T.	WI		−0.05	+0.1	0.0
17	Hd.–T.	WI		−0.11	+0.3	+0.2
20	Hd.–T	WI		−0.09	+0.8	+0.5
21	U.–Pk.	WI		−0.11	+1.0	−0.2
22	Hd.–T.	WI		−0.14	+0.8	−0.2
23	U.–Pk.	EI		−0.20	0.0	−0.8
26	U.–Pk.	EI		−0.19	+0.2	−0.3
28	U.–Pk.	EI		−0.15	−0.3	−1.1
30	U.–Pk.	EI		−0.18	−0.2	−0.5
31	Hd.–T.	EI		−0.12	−0.6	−0.1
Apr. 3	Hd.–T.	EI		−0.11	---	+0.5
Dec. 5	*U.*	*EI*		*+0.04*	*+0.2*	---
16	U.	EI		−0.01	+0.7	---
20	Hd.	EI		+0.02	+0.2	---
23	Hd.	EI		+0.05	+1.1	---

				s	″ A	″ B
1910						
Jan. 7	T.	WI		+0.02	+1.3	---
8	U.	WI		+0.04	+0.6	---
9	Hd.	WI		−0.03	−1.3	---
10	T.	WI		+0.04	+1.5	---
16	U.	WI		+0.06	−0.3	---
Mean	1909.56–1909.57			−0.066	+0.33	−0.18
	1909.23					
Corr				−0.081	0.00	0.00

4 H. Draconis

h m s 12 7 59.702 ° ′ ″ ″ +78 6 58.80, 58.80

				s	″ A	″ B
1909						
May 5	Hd.–T.	EI		+0.12	+0.3	+0.3
6	U.–Pk.	EI		−0.01	−0.4	−0.6
9	U.–Pk.	EI		+0.02	+0.1	+0.7
11	U.–Pk.	EI		+0.10	−0.3	−0.8
12	Hd.–T.	EI		+0.17	−0.2	0.0
14	U.–Pk.	WI		−0.14	−0.3	+0.2
15	Hd.–T.	WI		+0.06	+0.3	+0.4
16	U.–Pk.	WI		−0.04	−0.8	−0.8
17	Hd.–T.	WI		+0.09	+0.7	−0.1
18	U.–Pk.	WI		−0.07	−0.1	+0.3
23	Hd.–T.	WI		+0.02	−0.2	−2.1
Mean	1909.36			+0.029	−0.08	−0.23
Corr				−0.081	+0.08	+0.08

4 H. Draconis s. p.

h m s 12 7 59.706 ° ′ ″ ″ +78 6 58.82, 58.82

				s	″ A	″ B	
1910							
Sept. 7	T.	EI		+0.21	−0.8	−0.8	
9	Hd.	EI		−0.13	−0.2	−0.5	
12	T.	EI		−0.30	+1.5	+1.3	R.
16	T.	EI		+0.15	+0.1	−0.7	R.
17	Hd.	EI		−0.16	+1.3	+0.6	R.
20	Hd.	EI		+0.02	−0.4	−0.4	
22	Hd.	WI		−0.11	+0.7	−0.9	
25	T.	WI		+0.29	−0.4	−0.4	R.
27	T.	WI		−0.22	+0.4	+0.2	
28	Hd.	WI		+0.11	−0.4	−1.6	
Oct. 1	T.	WI		−0.13	+1.1	+0.4	
2	Hd.	WI		+0.34	0.0	−0.6	R.
3	T.	WI		----	+0.7	+0.2	R.
4	T.	WI		+0.48	−0.1	−0.2	R.
11	Hd.	EII		−0.47	−0.3	−1.2	R.
12	T.	EII		+0.04	+1.0	+0.5	
14	Hd.	EII		−0.04	+0.2	+0.3	R.
15	T.	EII		−0.31	−0.9	−2.2	R.
16	Hd.	EII		−0.01	+1.0	+0.6	
17	T.	EII		+0.23	+1.7	+1.6	R.
18	Hd.	EII		+0.12	+0.5	+0.4	
20	T.	EII		+0.05	+0.5	+0.4	
24	Hd.	WII		+0.11	−0.3	0.0	R.
25	T.	WII		−0.27	+0.6	+0.5	
26	Hd.	WII		+0.54	+0.8	+0.6	R.
31	Hd.	WII		−0.07	+0.1	+0.1	
Nov. 1	Hd.	WII		+0.06	+0.1	+0.1	
8	T.	WII		+0.06	−0.6	−0.5	
20	T.	WII		+0.19	+0.3	+1.1	R.
Mean	1910.77			−0.018	+0.24	−0.10	
Corr				−0.081	−0.11	−0.11	

γ Corvi

h m s 12 11 10.540 ° ′ ″ ″ −17 2 31.81, 31.81

				s	″ A	″ B
1909						
Mar. 15	Hd.–T.	WI		+0.10	+0.4	+0.3
17	Hd.–T.	WI		+0.11	+0.2	−0.7
20	Hd.–T.	WI		+0.08	+0.4	+0.5
21	U.–Pk.	WI		+0.02	+0.3	+0.6

			s	″ A	″ B
1909					
Mar. 22	Hd.–T.	WI	+0.07	−0.3	−0.9
23	U.–Pk.	EI	+0.05	−0.3	0.0
26	U.–Pk.	EI	+0.06	+0.2	+0.4
28	U.–Pk.	EI	+0.07	−0.8	−1.2
30	U.–Pk.	EI	+0.06	+0.1	−0.2
31	Hd.–T.	EI	+0.06	−0.2	+0.1
Apr. 3	Hd.–T.	EI	+0.07	−0.2	+1.0
May 5	Hd.–T.	EI	+0.08	+0.6	+0.8
6	U.–Pk.	EI	+0.15	+0.3	+0.5
9	U.–Pk.	EI	+0.12	−0.1	0.0
11	U.–Pk.	EI	+0.04	---	−0.8
12	Hd.–T.	EI	+0.08	−0.1	−0.7
14	U.–Pk.	WI	+0.04	---	+0.2
15	Hd.–T.	WI	+0.07	−1.4	−0.9
16	U.–Pk.	WI	+0.09	−0.7	−0.3
17	Hd.–T.	WI	+0.05	−0.1	+0.2
18	U.–Pk.	WI	+0.03	−0.3	[+2.5]
23	Hd.–T.	WI	+0.01	−0.9	−1.7
Dec. 5	*U.*	*EI*	*+0.02*	*+0.3*	---
16	U.	EI	+0.07	+0.2	---
18	Hd.	EI	+0.06	+1.9	---
20	Hd.	EI	+0.08	−0.1	---
23	Hd.	EI	+0.04	+0.7	---
1910					
Jan. 7	T.	WI	+0.02	+0.5	---
8	U.	WI	+0.09	0.0	---
9	Hd.	WI	+0.06	−0.5	---
10	T.	WI	+0.02	−0.2	---
16	U.	WI	+0.06	−0.2	---
Mean	1909.50–1909.51		+0.065	−0.02	−0.13
	1909.29				
Corr			−0.081	+0.01	+0.01

Bradley 1672 s. p.

			h m s	° ′ ″	″ A	″ B	
			12 14 25.91	+88 11 55.76,	55.76		
1910							
Sept. 7	T.	EI	−0.42		−1.3	−0.9	
9	Hd.	EI	−0.78		−0.6	−0.2	
12	T.	EI	−0.24		+0.1	−0.3	R.
15	Hd.	EI	−2.68		−0.5	−0.4	R.
16	T.	EI	−0.37		−0.6	−1.6	R.
17	Hd.	EI	−1.22		+1.1	+0.9	R.
20	Hd.	EI	+0.64		−0.4	0.0	
22	Hd.	WI	−0.51		+0.7	−1.3	
25	T.	WI	+2.01		+1.1	+0.8	R.
26	Hd.	WI	+0.95		0.0	0.0	R.
27	T.	WI	−0.81		+0.2	+0.7	
28	Hd.	WI	+1.40		−0.5	−0.7	
Oct. 1	T.	WI	−0.65		+0.7	−0.2	
2	Hd.	WI	+2.72		+1.6	+1.7	R.
3	T.	WI	----		+0.2	+0.1	R.
11	Hd.	EII	−1.35		−0.5	−1.2	R.
12	T.	EII	−0.02		+0.3	+0.6	
14	Hd.	EII	−0.10		−0.2	+0.1	R.
15	T.	EII	−1.20		−1.5	−2.1	R.
16	Hd.	EII	−0.34		+0.1	−0.3	
17	T.	EII	−1.07		−1.1	−1.2	R.
18	Hd.	EII	+1.40		+0.2	−0.2	
20	T.	EII	+0.52		−0.6	0.0	
24	Hd.	WII	+0.75		−0.5	−0.3	R.
25	T.	WII	−1.69		+0.6	+1.3	
26	Hd.	WII	+1.55		+0.1	−0.2	R.
31	Hd.	WII	+0.13		−0.5	−0.6	
Nov. 1	Hd.	WII	+1.10		−0.2	−0.3	
6	T.	WII	+3.11		0.0	−0.2	R.
8	T.	WII	−0.27		−0.2	+0.1	
20	T.	WII	+1.04		−0.6	+0.6	R.
Mean	1910.77		−0.02		−0.10	−0.13	
Corr			−0.08		−0.09	−0.09	

η Virginis

			h m s	° ′ ″	″ A	″ B
			12 15 18.085	−0 10 0.11,	0.10	
1909						
Mar. 15	Hd.–T.	WI	+0.01		+0.5	−0.2
17	Hd.–T.	WI	−0.01		+0.3	−0.6
20	Hd.–T.	WI	+0.01		+0.5	+0.4
21	U.–Pk.	WI	+0.01		+0.3	−0.6
22	Hd.–T.	WI	+0.01		+0.6	---
23	U.–Pk.	EI	+0.01		+0.1	---
26	U.–Pk.	EI	−0.02		+0.3	---
28	U.–Pk.	EI	+0.03		−0.2	---
30	U.–Pk.	EI	−0.02		+1.1	---
31	Hd.–T.	EI	+0.01		−0.3	---
Apr. 3	Hd.–T.	EI	+0.02		−0.3	---
May 5	Hd.–T.	EI	−0.01		+0.3	+1.1
6	U.–Pk.	EI	0.00		+0.2	−0.4
9	U.–Pk.	EI	−0.04		+1.0	+0.3
11	U.–Pk.	EI	−0.01		0.0	+0.9
12	Hd.–T.	EI	+0.02		−0.4	−0.6
14	U.–Pk.	WI	−0.02		+0.2	−0.6
15	Hd.–T.	WI	−0.03		+0.1	−0.2
16	U.–Pk.	WI	+0.03		+0.3	+1.2
17	Hd.–T.	WI	−0.02		0.0	+0.3
18	U.–Pk.	WI	−0.02		+0.6	−0.6
23	Hd.–T.	WI	+0.01		−0.7	−1.6
Dec. 5	*U.*	*EI*	*−0.01*		*0.0*	---
16	U.	EI	0.00		+0.2	---
18	Hd.	EI	+0.01		−0.6	---
20	Hd.	EI	−0.04		−0.3	---
23	Hd.	EI	−0.05		+0.4	---
1910						
Jan. 7	T.	WI	−0.02		+0.9	---
8	U.	WI	−0.03		+0.1	---
9	Hd.	WI	+0.02		−0.6	---
10	T.	WI	+0.03		+2.1	---
16	U.	WI	+0.01		−0.1	---
Mean	1909.50–1909.50		−0.003		+0.21	−0.08
	1909.32					
Corr			−0.081		+0.03	+0.03

12 Comæ

			h m s	° ′	″ A	″ B
1909						
Mar. 15	Hd.–T.	WI	12 17 59.00	+26 20	44.6	43.2
17	Hd.–T.	WI	58.94		44.9	43.1
20	Hd.–T.	WI	58.95		44.1	43.8
21	U.–Pk.	WI	59.08		45.2	44.7
22	Hd.–T.	WI	58.95		43.9	43.4
23	U.–Pk.	EI	-----		----	43.9
26	U.–Pk.	EI	59.00		43.8	44.6
28	U.–Pk.	EI	58.98		43.7	43.8
30	U.–Pk.	EI	59.00		44.5	44.8
31	Hd.–T.	EI	59.01		43.3	44.3
Apr. 3	Hd.–T.	EI	58.99		44.0	44.6
Mean	1909.23–1909.23		12 17 58.990	+26 20	44.20	44.02
	1909.23					
Corr			−0.081		+0.04	+0.04

6 Canum Venaticorum

			h m s	° ′	″ A	″ B
1909						
Mar. 15	Hd.–T.	WI	12 21 25.15	+39 31	5.9	5.7
17	Hd.–T.	WI	25.09		5.7	4.8
20	Hd.–T.	WI	25.14		5.1	3.9
21	U.–Pk.	WI	25.08		4.8	4.2
22	Hd.–T.	WI	25.06		5.0	4.2
23	U.–Pk.	EI	25.02		4.2	4.3
26	U.–Pk.	EI	25.12		3.6	3.9
28	U.–Pk.	EI	25.05		4.3	4.9
30	U.–Pk.	EI	25.07		4.1	3.8
31	Hd.–T.	EI	25.19		4.6	4.9
Apr. 3	Hd.–T.	EI	25.17		4.6	2.9
Mean	1909.23		12 21 25.104	+39 31	4.72	4.32
Corr			−0.081		+0.05	+0.05

15 Comæ

				h m s	° ′	″ A	″ B
1909							
May	5	Hd.–T.	EI	12 22 27.20	+28 46	6.7	7.1
	6	U.–Pk.	EI	27.27		7.9	6.5
	9	U.–Pk.	EI	27.25		8.7	8.3
	11	U.–Pk.	EI	27.24		6.6	5.9
	12	Hd.–T.	EI	27.24		6.4	7.2
	14	U.–Pk.	WI	27.32		6.4	7.3
	15	Hd.–T.	WI	27.26		7.3	6.2
	16	U.–Pk.	WI	27.20		7.4	7.0
	17	Hd.–T.	WI	27.25		7.2	7.1
	18	U.–Pk.	WI	27.18		7.1	9.0
	23	Hd.–T.	WI	27.26		6.3	5.6
Mean		1909.36		12 22 27.243	+28 46	7.09	7.02
Corr				−0.081		+0.05	+0.05

δ Corvi

				h m s	° ′	″ A	″ B
				12 25 12.365	−16 0	51.91,	51.88
1909							
Mar.	15	Hd.–T.	WI	+0.05		+0.1	−0.1
	17	Hd.–T.	WI	+0.03		+0.7	0.0
	20	Hd.–T.	WI	+0.01		+0.6	−0.4
	21	U.–Pk.	WI	+0.03		+1.3	−0.2
	22	Hd.–T.	WI	+0.01		+0.8	−1.1
	23	U.–Pk.	EI	+0.04		+0.6	+0.2
	26	U.–Pk.	EI	+0.01		−1.1	−0.6
	28	U.–Pk.	EI	+0.01		−0.5	−1.1
	30	U.–Pk.	EI	+0.06		+0.1	+0.5
	31	Hd.–T.	EI	0.00		+0.2	−0.2
Apr.	3	Hd.–T.	EI	+0.05		+0.8	+0.5
May	5	Hd.–T.	EI	+0.03		−0.1	+0.4
	6	U.–Pk.	EI	+0.01		−1.3	−0.5
	9	U.–Pk.	EI	0.00		+0.9	+0.4
	11	U.–Pk.	EI	+0.09		−0.3	−1.5
	12	Hd.–T.	EI	+0.03		0.0	−0.7
	13	Hd.–T.	EI	+0.04		+0.3	−0.7
	14	U.–Pk.	WI	+0.04		−0.6	+0.1
	15	Hd.–T.	WI	+0.04		+0.3	+0.2
	16	U.–Pk.	WI	+0.02		−0.2	+1.0
	17	Hd.–T.	WI	+0.07		0.0	+0.1
	18	U.–Pk.	WI	+0.06		+0.1	+1.8
	23	Hd.–T.	WI	+0.03		−0.4	−1.5
Dec.	16	U.	EI	+0.04		+1.1	---
	18	Hd.	EI	+0.04		+0.5	---
	20	Hd.	EI	+0.03		+1.0	---
	23	Hd.	EI	+0.03		+1.0	---
1910							
Jan.	7	T.	WI	+0.03		+1.1	---
	8	U.	WI	+0.03		−0.9	---
	9	Hd.	WI	+0.02		−0.3	---
	10	T.	WI	+0.03		+0.9	---
	16	U.	WI	+0.05		−0.5	---
Mean		1909.50–1909.50 1909.30		+0.033		+0.19	−0.15
Corr				−0.081		+0.01	+0.01

κ Draconis

				h m s	° ′	″ A	″ B
				12 29 38.881	+70 17	3.32,	3.31
1909							
Mar.	15	Hd.–T.	WI	+0.16		+0.7	−0.8
	17	Hd.–T.	WI	+0.14		+0.5	−0.8
	20	Hd.–T.	WI	+0.12		0.0	−0.4
	21	U.–Pk.	WI	0.00		+0.4	−0.3
	22	Hd.–T.	WI	+0.01		+0.1	−2.1
	23	U.–Pk.	EI	−0.08		−0.1	+0.4
	26	U.–Pk.	EI	−0.17		−0.6	+0.5
	28	U.–Pk.	EI	−0.01		−0.6	−1.0
	30	U.–Pk.	EI	0.00		−0.7	−0.7
	31	Hd.–T.	EI	+0.13		−0.2	+0.2
Apr.	3	Hd.–T.	EI	+0.05		−0.5	+0.1
Dec.	16	U.	EI	+0.05		+0.4	---
	18	Hd.	EI	----		+0.5	---
	20	Hd.	EI	−0.01		+0.3	---
	23	Hd.	EI	−0.06		+0.9	---
1910							
Jan.	7	T.	WI	+0.08		+0.4	---
	8	U.	WI	−0.02		−0.2	---
	9	Hd.	WI	+0.11		+0.3	---
	10	T.	WI	+0.02		+0.3	---
	16	U.	WI	+0.03		+0.2	---
Mean		1909.56–1909.58 1909.23		+0.029		+0.10	−0.45
Corr				−0.081		+0.07	+0.07

κ Draconis s. p.

				h m s	° ′	″ A	″ B
				12 29 38.876	+70 17	3.32	---
1909							
Dec.	5	U.	EI	+0.01		+0.3	---
	6	Hd.	EI	+0.17		−0.5	---
	8	U.	EI	−0.13		+0.4	---
	15	Hd.	EI	−0.08		0.0	---
	16	U.	EI	+0.07		−0.4	---
	18	Hd.	EI	----		−0.1	---
	20	Hd.	EI	−0.08		−0.1	---
	21	U.	EI	−0.03		−1.3	---
	30	Hd.	WI	−0.14		+1.8	---
1910							
Jan.	4	Hd.	WI	+0.08		+1.3	---
	7	T.	WI	+0.02		+1.8	---
	8	U.	WI	−0.03		−0.6	---
	9	Hd.	WI	−0.03		+0.6	---
	10	*T.*	*WI*	*+0.09*		*+0.3*	---
	16	*U.*	*WI*	*−0.11*		*+0.4*	---
Mean		1909.98–1909.98		−0.014		+0.25	---
Corr				−0.081		−0.14	---

β Corvi

				h m s	° ′	″ A	″ B
				12 29 39.389	−22 53	56.80,	56.80
1909							
May	5	Hd.–T.	EI	+0.08		+0.7	+0.9
	6	U.–Pk.	EI	+0.16		+0.3	−0.1
	9	U.–Pk.	EI	+0.11		+0.4	+0.2
	11	U.–Pk.	EI	+0.12		−0.1	+0.2
	12	Hd.–T.	EI	+0.09		+0.5	+0.5
	13	Hd.–T.	EI	+0.12		+0.2	+0.8
	14	U.–Pk.	WI	+0.09		0.0	+0.1
	15	Hd.–T.	WI	+0.08		+0.7	−0.5
	16	U.–Pk.	WI	+0.10		+1.0	+0.1
	17	Hd.–T.	WI	+0.11		+0.8	+0.7
	18	U.–Pk.	WI	+0.11		+0.2	+1.2
	23	Hd.–T.	WI	+0.10		−0.7	−1.2
Mean		1909.36		+0.106		+0.33	+0.24
Corr				−0.081		0.00	0.00

f Virginis

				h m s	° ′	″ A	″ B
1909							
May	5	Hd.–T.	EI	12 32 9.16	−5 20	9.6	8.3
	6	U.–Pk.	EI	9.33[1]		9.1	9.7
	9	U.–Pk.	EI	9.26		9.3	8.9
	11	U.–Pk.	EI	9.14		8.4	10.6
	12	Hd.–T.	EI	9.21		9.4	9.2
	14	U.–Pk.	WI	9.22		8.8	8.6
	15	Hd.–T.	WI	9.16		9.4	9.7
	16	U.–Pk.	WI	9.22		8.7	8.2
	17	Hd.–T.	WI	9.19		9.3	9.2
	18	U.–Pk.	WI	9.19		8.9	9.3
	23	Hd.–T.	WI	9.18		9.7	10.6
Mean		1909.36		12 32 9.205	−5 20	9.15	9.30
Corr				−0.081		+0.02	+0.02

[1] Only five threads in right ascension.

γ Virginis *mean*

	h	m	s	°	′	″	″
	12	37	6.034	−0	57	21.18,	21.18
1909						A	B
May 5	Hd.–T.	EI	−0.04			−0.4	+0.4
6	U.–Pk.	EI	----			−0.2	−1.0
9	U.–Pk.	EI	−0.04			+0.1	−0.5
11	U.–Pk.	EI	+0.01			+0.8	+0.6
12	Hd.–T.	EI	−0.06			−0.3	−0.6
13	Hd.–T.	EI	−0.04			−0.3	+0.2
14	U.–Pk.	WI	+0.01			−1.2	−1.0
15	Hd.–T.	WI	−0.07			+0.1	+0.3
16	U.–Pk.	WI	−0.03			−0.8	−1.3
17	Hd.–T.	WI	0.00			+0.2	+0.4
18	U.–Pk.	WI	−0.06			−0.2	0.0
23	Hd.–T.	WI	−0.07			−0.3	−1.1
Mean 1909.37–1909.36			−0.035			−0.21	−0.30
Corr			−0.081			+0.03	+0.03

76 Ursæ Majoris

	h	m	s	°	′	″	″
	12	37	38.233	+63	12	25.44,	25.44
1909						A	B
Mar. 15	Hd.–T.	WI	+0.03			+1.5	+0.1
17	Hd.–T.	WI	+0.02			+0.9	−0.4
20	Hd.–T.	WI	+0.09			+0.2	−0.3
21	U.–Pk.	WI	+0.03			+0.3	−0.3
22	Hd.–T.	WI	−0.02			−0.2	−2.0
23	U.–Pk.	EI	+0.09			−1.4	+0.1
26	U.–Pk.	EI	+0.12			−1.4	+0.1
28	U.–Pk.	EI	+0.09			−0.4	−1.3
30	U.–Pk.	EI	+0.08			−0.2	−1.4
31	Hd.–T.	EI	+0.09			+0.2	−0.6
Apr. 3	Hd.–T.	EI	+0.12			−1.2	+0.6
Mean 1909.23			+0.067			−0.15	−0.49
Corr			−0.081			+0.06	+0.06

35 Virginis

	h	m	s	°	′	″	″
1909						A	B
May 5	Hd.–T.	EI	12 43 16.40	+4	3	50.7	51.4
6	U.–Pk.	EI	----			50.5	50.4
9	U.–Pk.	EI	16.45			51.3	51.0
11	U.–Pk.	EI	16.47			50.3	50.0
12	Hd.–T.	EI	16.48			50.0	50.1
13	Hd.–T.	EI	16.46			50.1	49.7
14	U.–Pk.	WI	16.44			50.0	50.0
15	Hd.–T.	WI	16.40			49.9	50.1
16	U.–Pk.	WI	16.46			50.7	[52.7]
17	Hd.–T.	WI	16.44			49.8	50.6
18	U.–Pk.	WI	16.45			50.4	51.8
23	Hd.–T.	WI	16.47			49.9	49.1
Mean 1909.37–1909.36 1909.36			12 43 16.447	+4	3	50.30	50.38
Corr			−0.081			+0.03	+0.03

31 Comæ

	h	m	s	°	′	″	″
	12	47	18.939	+28	1	49.03,	49.03
1909						A	B
May 5	Hd.–T.	EI	+0.01			+0.1	+0.6
6	U.–Pk.	EI	----			+0.8	−0.2
9	U.–Pk.	EI	+0.04			+0.7	+1.0
11	U.–Pk.	EI	+0.07			+0.4	−0.3
12	Hd.–T.	EI	+0.06			+0.8	+0.3
13	Hd.–T.	EI	−0.01			−0.3	+0.1
14	U.–Pk.	WI	----			+0.4	----
15	Hd.–T.	WI	+0.04			+0.1	−0.2
16	U.–Pk.	WI	+0.02			+0.1	+0.5
17	Hd.–T.	WI	+0.11			+0.5	−0.3
18	U.–Pk.	WI	+0.05			+0.6	[+2.4]
23	Hd.–T.	WI	+0.06			+0.3	−0.7
Mean 1909.37–1909.36 1909.36			+0.045			+0.38	+0.08
Corr			−0.081			+0.05	+0.05

32 H. Camelopardalis *seq.*

	h	m	s	°	′	″	″
	12	48	27.368	+83	54	---	---
1909						A	B
Dec. 16	*U.*	*EI*	*+0.16*			---	---
18	*Hd.*	*EI*	*+0.22*			*+1.0*	---
20	Hd.	EI	+0.48			---	---
23	Hd.	EI	−0.07			---	---
1910							
Jan. 7	T.	WI	+0.30			---	---
8	U.	WI	−0.12			---	---
9	Hd.	WI	−0.05			---	---
10	T.	WI	+0.37			---	---
16	U.	WI	+0.22			---	---
Mean 1910.01			+0.161			---	---
Corr			−0.081			---	---

32 H. Camelopardalis *seq.* s. p.

	h	m	s	°	′	″	″	
	12	48	27.361	+83	54	7.56,	7.56	
1909						A	B	
Oct. 30	Hd.–T.	WI	----			0.0	---	R.
30	Hd.–T.	WI	----			−0.4	---	
31	Hd.–T.	WI	----			−1.2	---	R.
31	Hd.–T.	WI	----			−0.2	---	
Nov. 11	Hd.–U.	WI	----			+0.8	---	R.
11	Hd.–U.	WI	----			−0.2	---	
12	Hd.–T.	WI	----			+0.4	---	R.
12	Hd.–T.	WI	----			+0.1	---	
13	Hd.–T.	EI	----			−0.9	---	R.
13	Hd.–T.	EI	----			+1.0	---	
19	Hd.–T.	EI	----			−0.7	---	R.
19	Hd.–T.	EI	----			+0.3	---	
20	Hd.–T.	EI	----			−0.6	---	R.
20	Hd.–T.	EI	----			−0.2	---	
22	Hd.–T.	EI	----			+0.2	---	R.
22	Hd.–T.	EI	----			−0.9	---	
27	Hd.–T.	EI	----			+0.4	---	R.
27	Hd.–T.	EI	----			−0.4	---	
Dec. 5	U.	EI	−0.53			+0.8	---	
6	Hd.	EI	+0.36			−0.2	---	
8	U.	EI	−0.32			+0.7	---	
15	Hd.	EI	+0.25			+0.4	---	
16	U.	EI	−0.42			−0.1	---	
20	Hd.	EI	+0.15			−0.4	---	
21	U.	EI	−0.25			−0.5	---	
30	Hd.	WI	−0.21			−0.4	---	
1910								
Jan. 4	Hd.	WI	+0.37			+0.7	---	
7	T.	WI	−0.37			+0.3	---	
8	U.	WI	+0.12			−0.2	---	
9	Hd.	WI	−0.34			−0.8	---	
10	T.	WI	+0.42			−0.6	---	
16	*U.*	*WI*	*−0.26*			*+0.2*	---	
Sept. 7	T.	EI	−0.11			0.0	+0.1	
9	Hd.	EI	−0.29			−0.1	+0.7	
12	T.	EI	−0.22			+1.3	+1.2	R.
15	Hd.	EI	−0.65			+1.1	+1.1	R.
16	T.	EI	−0.13			+0.9	+0.7	R.
17	Hd.	EI	−0.10			+0.1	−0.5	R.
20	Hd.	EI	+0.09			+0.2	−0.3	
21	T.	EI	+0.32			+0.7	0.0	
22	Hd.	WI	−0.20			+0.6	+0.5	
25	T.	WI	+0.53			+0.1	+0.2	R.
26	Hd.	WI	−0.04			−0.3	0.0	R.
27	T.	WI	−0.12			+0.5	+1.1	
28	Hd.	WI	+0.13			0.0	−0.1	
Oct. 1	T.	WI	+0.23			+0.5	+0.2	
2	Hd.	WI	+0.66			+0.8	+0.4	R.
3	T.	WI	----			−0.4	+0.1	R.
4	T.	WI	+0.76			0.0	+0.2	R.
11	Hd.	EII	−0.85			+0.2	−0.1	R.
14	Hd.	EII	+0.09			+0.6	+1.4	R.
15	T.	EII	−0.56			−0.6	−0.8	R.

				s	″ A	″ B	
1910							
Oct.	16	Hd.	EII	−0.33	+0.6	+0.8	
	17	T.	EII	−0.33	+0.4	+0.8	R.
	18	Hd.	EII	+0.29	+2.0	+0.8	
	20	T.	EII	+0.07	+0.6	+0.6	
	24	Hd.	WII	+0.34	−0.3	−0.1	R.
	25	T.	WII	−0.25	+0.1	+1.0	
	26	Hd.	WII	+0.83	+0.7	+0.8	R.
	31	Hd.	WII	−0.22	+0.2	+0.5	
Nov.	1	Hd.	WII	+0.39	+0.2	+0.3	
	6	T.	WII	+0.57	−0.1	+0.4	R.
	8	T.	WII	−0.33	+0.4	+0.8	
	20	T.	WII	+0.53	+1.1	+1.7	R.
Mean		1910.40–1910.27		−0.039	+0.14	+0.47	
		1910.77					
Corr				−0.081	−0.09	−0.09	

δ Virginis

h m s 12 51 4.181 ° ′ ″ +3 53 11.07, 11.08

				s	″ A	″ B	
1909							
Mar.	15	Hd.–T.	WI	+0.04	+0.6	+0.6	
	17	Hd.–T.	WI	+0.03	+0.3	−0.3	
	18	U.–T.	WI	0.00	+0.2	+1.4	
	20	Hd.–T.	WI	+0.07	+0.3	+0.3	
	21	U.–Pk.	WI	+0.03	+0.9	+1.0	
	22	Hd.–T.	WI	+0.02	+0.5	−0.5	
	23	U.–Pk.	EI	+0.04	+1.0	−0.4	
	26	U.–Pk.	EI	+0.07	0.0	0.0	
	28	U.–Pk.	EI	−0.01	+0.5	+1.4	
	30	U.–Pk.	EI	0.00	+0.2	+0.8	
	31	Hd.–T.	EI	+0.06	−0.8	+0.5	
Apr.	3	Hd.–T.	EI	+0.04	−0.1	+1.7	
May	5	Hd.–T.	EI	0.00	+0.3	+0.6	
	6	U.–Pk.	EI	----	−0.9	−1.2	
	9	U.–Pk.	EI	+0.06	+0.7	+0.4	
	11	U.–Pk.	EI	+0.03	−0.4	−0.4	
	12	Hd.–T.	EI	+0.03	+0.1	0.0	
	13	Hd.–T.	EI	+0.10	−0.8	−0.3	
	14	U.–Pk.	WI	+0.06	−0.4	−0.4	
	15	Hd.–T.	WI	+0.03	+1.2	−0.1	
	16	U.–Pk.	WI	+0.02	−0.3	+1.2	
	17	Hd.–T.	WI	+0.06	−0.3	−0.4	
	18	U.–Pk.	WI	+0.05	+0.6	+0.4	
	23	Hd.–T.	WI	+0.08	−0.3	−1.1	
Dec.	*16*	*U.*	*EI*	*+0.04*	*+1.5*	---	
	18	*Hd.*	*EI*	*+0.04*	*+0.1*	---	
	20	Hd.	EI	+0.01	−0.1	---	
	23	Hd.	EI	+0.05	+0.7	---	
1910							
Jan.	7	T.	WI	+0.05	+1.7	---	
	8	U.	WI	+0.04	+0.3	---	
	9	Hd.	WI	+0.08	−0.7	---	
	10	T.	WI	0.00	+0.6	---	
Mean		1909.44–1909.44		+0.039	+0.19	+0.22	
		1909.30					
Corr				−0.081	+0.03	+0.03	

ε Virginis

h m s 12 57 41.821 ° ′ ″ +11 26 33.72, 33.72

				s	″ A	″ B	
1909							
Mar.	15	Hd.–T.	WI	+0.02	+2.0	+1.0	
	17	Hd.–T.	WI	−0.02	+0.4	+0.7	
	18	U.–T.	WI	−0.02	−0.4	+0.6	
	20	Hd.–T.	WI	+0.01	+0.8	−0.1	
	21	U.–Pk.	WI	+0.02	+0.9	0.0	
	22	Hd.–T.	WI	+0.06	0.0	−0.3	
	23	U.–Pk.	EI	−0.03	+0.4	+0.3	
	26	U.–Pk.	EI	+0.02	+0.1	+0.4	
	28	U.–Pk.	EI	0.00	0.0	0.0	
	30	U.–Pk.	EI	−0.05	+0.7	−0.6	
	31	Hd.–T.	EI	+0.04	+0.4	+0.6	
Apr.	3	Hd.–T.	EI	+0.03	−0.2	+0.5	
May	5	Hd.–T.	EI	+0.01	−0.3	+0.5	
	6	U.–Pk.	EI	----	+1.1	---	
	9	U.–Pk.	EI	+0.03	+0.7	+1.0	
	11	U.–Pk.	EI	+0.06	+0.5	−0.3	
	12	Hd.–T.	EI	+0.01	+0.2	+0.3	
	14	U.–Pk.	WI	----	−0.9	−0.6	
	15	Hd.–T.	WI	+0.02	+0.1	−0.1	
	16	U.–Pk.	WI	+0.03	0.0	+1.0	
	17	Hd.–T.	WI	+0.01	−0.2	+0.6	
	18	U.–Pk.	WI	−0.03	−0.5	+1.1	
	23	Hd.–T.	WI	0.00	−0.3	−0.3	
Mean		1909.29–1909.29		+0.010	+0.24	+0.29	
Corr				−0.081	+0.03	+0.03	

γ Hydræ

h m s 13 14 1.549 ° ′ ″ ″ −22 41 48.78, 48.78

				s	″ A	″ B	
1909							
May	5	Hd.–T.	EI	+0.07	+0.6	+0.5	
	6	U.–Pk.	EI	----	−0.5	−0.8	
	9	U.–Pk.	EI	----	+0.1	−0.1	
	11	U.–Pk.	EI	+0.04	+0.3	−0.3	
	12	Hd.–T.	EI	+0.02	0.0	−0.9	
	13	Hd.–T.	EI	+0.06	+0.1	+0.3	
	14	U.–Pk.	WI	----	−0.4	−0.1	
	15	Hd.–T.	WI	+0.02	−0.1	−0.3	
	16	U.–Pk.	WI	+0.11	−1.2	+0.6	
	17	Hd.–T.	WI	+0.03	+0.3	+0.2	
	18	U.–Pk.	WI	+0.05	+0.1	+0.9	
	23	Hd.–T.	WI	+0.08	−0.9	−1.3	
Mean		1909.37–1909.36		+0.053	−0.13	−0.11	
Corr				−0.081	−0.01	−0.01	

η Ursæ Majoris

h m s 13 43 59.771 ° ′ ″ ″ +49 45 43.82, 43.82

				s	″ A	″ B	
1909							
May	6	U.–Pk.	EI	−0.04	0.0	+0.7	
	9	U.–Pk.	EI	−0.02	+0.8	+1.2	
	11	U.–Pk.	EI	+0.01	+0.5	0.0	
	12	Hd.–T.	EI	+0.08	+0.3	0.0	
	13	Hd.–T.	EI	+0.01	+1.7	+0.5	
	14	U.–Pk.	WI	−0.09	+0.5	0.0	
	15	Hd.–T.	WI	0.00	+0.1	−0.2	
	16	U.–Pk.	WI	−0.02	0.0	+0.1	
	17	Hd.–T.	WI	+0.06	+0.7	−0.1	
	18	U.–Pk.	WI	−0.03	+0.3	−0.3	
	23	Hd.–T.	WI	+0.07	+0.5	−0.4	
Mean		1909.37		+0.003	+0.49	+0.14	
Corr				−0.081	+0.06	+0.06	

η Boötis

h m s 13 50 23.974 ° ′ ″ ″ +18 50 55.05, 55.05

				s	″ A	″ B	
1909							
May	5	Hd.–T.	EI	+0.02	+0.2	−0.5	
	6	U.–Pk.	EI	−0.05	−0.1	−0.1	
	9	U.–Pk.	EI	----	−0.5	−0.3	
	11	U.–Pk.	EI	+0.02	+1.0	−0.1	
	12	Hd.–T.	EI	0.00	−0.6	−0.7	
	13	Hd.–T.	EI	−0.09	+0.4	+0.5	
	14	U.–Pk.	WI	0.00	−0.3	−0.4	
	15	Hd.–T.	WI	−0.03	+0.5	−0.5	
	16	U.–Pk.	WI	+0.04	−1.3	0.0	
	17	Hd.–T.	WI	−0.01	0.0	+0.7	
	18	U.–Pk.	WI	+0.02	−0.6	−0.3	
	23	Hd.–T.	WI	+0.03	−0.9	−0.8	
Mean		1909.37–1909.36		−0.005	−0.18	−0.21	
Corr				−0.081	+0.04	+0.04	

α Draconis

h	m	s	°	′	″	″
14	1	57.188	+64	48	20.82,	20.82

1909				A	B
May	5	Hd.–T.	EI	−0.3	+0.7
	6	U.–Pk.	EI	−0.4	+1.2
	9	U.–Pk.	EI	+0.3	+0.4
	11	U.–Pk.	EI	+0.6	−0.7
	12	Hd.–T.	EI	0.0	−0.4
	13	Hd.–T.	EI	+0.3	+0.7
	14	U.–Pk.	WI	−0.2	+0.2
	15	Hd.–T.	WI	+0.2	+0.3
	16	U.–Pk.	WI	+0.6	+0.3
	17	Hd.–T.	WI	+0.7	+0.5
	18	U.–Pk.	WI	−0.1	−0.1
	23	Hd.–T.	WI	−0.3	−0.6

Mean	1909.36	−0.016	+0.12 +0.21
Corr		−0.081	+0.06 +0.06

d Boötis

h	m	s	°	′	″	″
14	6	17.705	+25	31	3.39,	3.39

1909				A	B
May	5	Hd.–T.	EI	+0.7	+0.6
	6	U.–Pk.	EI	+0.2	+1.8
	9	U.–Pk.	EI	+1.5	0.0
	11	U.–Pk.	EI	+0.6	+0.4
	12	Hd.–T.	EI	−0.1	+0.3
	13	Hd.–T.	EI	+0.1	+1.0
	14	U.–Pk.	WI	−0.6	−0.9
	15	Hd.–T.	WI	+0.5	−0.7
	16	U.–Pk.	WI	0.0	+0.5
	17	Hd.–T.	WI	−0.2	+0.3
	18	U.–Pk.	WI	−0.6	+1.6
	23	Hd.–T.	WI	−0.1	−0.3

Mean	1909.36	−0.017	+0.17 +0.38
Corr		−0.081	+0.04 +0.04

4 Ursæ Minoris

h	m	s	°	′	″	″
14	9	11.045	+77	58	13.30,	13.30

1909				A	B
May	5	Hd.–T.	EI	+0.6	+1.2
	6	U.–Pk.	EI	+0.1	+1.5
	9	U.–Pk.	EI	−0.1	+0.3
	11	U.–Pk.	EI	+0.1	−0.2
	12	Hd.–T.	EI	−0.5	+0.7
	13	Hd.–T.	EI	+0.6	−0.3
	14	U.–Pk.	WI	−0.5	−0.3
	15	Hd.–T.	WI	+0.6	+0.2
	16	U.–Pk.	WI	−1.2	+0.5
	17	Hd.–T.	WI	+0.6	+0.6
	18	U.–Pk.	WI	−0.5	+0.6
	23	Hd.–T.	WI	+0.4	−0.8

Mean	1909.36	+0.052	+0.02 +0.33
Corr		−0.081	+0.07 +0.07

α Boötis

h	m	s	°	′	″	″
14	11	33.403	+19	39	3.45,	3.47

1909				A	B
May	5	Hd.–T.	EI	---	+0.7
	6	U.–Pk.	EI	---	−0.3
	9	U.–Pk.	EI	0.0	−0.1
	11	U.–Pk.	EI	0.0	−1.2
	12	Hd.–T.	EI	−0.6	−0.7
	13	Hd.–T.	EI	−0.3	+0.6
	14	U.–Pk.	WI	−1.2	−1.5
	15	Hd.–T.	WI	0.0	−0.1
	16	U.–Pk.	WI	−0.7	+0.2
	17	Hd.–T.	WI	0.0	+0.5
	18	U.–Pk.	WI	−1.2	+0.2
	23	Hd.–T.	WI	−0.2	−0.2

Mean	1909.36–1909.37, 1909.36	+0.066	−0.42 −0.16
Corr		−0.081	+0.04 +0.04

λ Virginis

h	m	s	°	′	″	″
14	14	14.229	−12	57	25.99,	25.99

1909				A	B
May	5	Hd.–T.	EI	+0.1	+1.2
	6	U.–Pk.	EI	+0.7	+0.6
	9	U.–Pk.	EI	+0.7	+0.8
	11	U.–Pk.	EI	+1.7	−2.3
	12	Hd.–T.	EI	−0.4	−0.2
	13	Hd.–T.	EI	−0.6	−0.4
	14	U.–Pk.	WI	−0.8	0.0
	15	Hd.–T.	WI	−0.2	−0.4
	16	U.–Pk.	WI	−0.3	+0.7
	17	Hd.–T.	WI	−0.3	−0.3
	18	U.–Pk.	WI	−0.4	---
	23	Hd.–T.	WI	+0.2	−1.2

Mean	1909.36–1909.36	+0.069	+0.03 −0.14
Corr	1909.36	−0.081	+0.01 +0.01

θ Boötis

h	m	s	°	′	″	″
14	22	8.042	+52	15	59.42,	59.42

1909				A	B
May	5	Hd.–T.	EI	+1.5	+0.8
	6	U.–Pk.	EI	−0.5	+0.7	+1.1
	9	U.–Pk.	EI	+0.3	+1.6
	11	U.–Pk.	EI	0.0	+0.9	+0.6
	12	Hd.–T.	EI	+0.4	−0.3	+0.3
	13	Hd.–T.	EI	+0.5	0.0	+0.4
	14	U.–Pk.	WI	0.0	−0.6	+0.3
	15	Hd.–T.	WI	+0.1	−0.3	−0.4
	16	U.–Pk.	WI	0.0	+0.6	+1.0
	17	Hd.–T.	WI	+0.5	+0.5	+0.4
	18	U.–Pk.	WI	−0.4	−0.2	−0.3
	23	Hd.–T.	WI	+0.1	−0.1	−0.8

Mean	1909.36	+0.012	+0.25 +0.42
Corr		−0.081	+0.06 +0.06

5 Ursæ Minoris

h	m	s	°	′	″	″
14	27	42.129	+76	5	46.16,	46.16

1909				A	B
May	5	Hd.–T.	EI	+0.5	+1.1
	6	U.–Pk.	EI	−0.35	−0.1[+2.1]
	9	U.–Pk.	EI	+0.11	+0.2	+0.6
	11	U.–Pk.	EI	−0.08	0.0	−0.9
	12	Hd.–T.	EI	+0.05	−0.5	−0.7
	13	Hd.–T.	EI	+0.08	+0.4	+0.2
	14	U.–Pk.	WI	−0.05	−1.1	−1.1
	15	Hd.–T.	WI	+0.16	−1.4	−0.4
	16	U.–Pk.	WI	+0.13	−0.7	+0.3
	17	Hd.–T.	WI	+0.25	−0.3	−0.5
	18	U.–Pk.	WI	+0.01	−0.7	0.0
	23	Hd.–T.	WI	+0.06	−0.7	−1.4

Mean	1909.36–1909.36, 1909.37	+0.034	−0.37 −0.25
Corr		−0.081	+0.07 +0.07

σ Boötis

h	m	s	°	′	″	″
14	30	45.734	+30	8	8.63,	8.63

1909				A	B
May	5	Hd.–T.	EI	−0.2	−0.3
	6	U.–Pk.	EI	+0.7	−0.6
	9	U.–Pk.	EI	0.0	0.0
	11	U.–Pk.	EI	−0.2	−1.1
	12	Hd.–T.	EI	−0.1	+0.6
	13	Hd.–T.	EI	+0.5	+0.7
	14	U.–Pk.	WI	−1.0	−0.4
	15	Hd.–T.	WI	−0.5	−0.5
	16	U.–Pk.	WI	−0.2	+0.4
	17	Hd.–T.	WI	+0.1	---	−0.2
	18	U.–Pk.	WI	+0.4	−1.1	+0.1
	23	Hd.–T.	WI	−0.4	−1.0	−0.6

Mean	1909.36–1909.36, 1909.36	−0.013	−0.28 −0.16
Corr		−0.081	+0.05 +0.05

33 Boötis

				h m s	° ′ ″	″ A	″ B
				14 35 29.334	+44 47 33.06,	33.06	
1909							
May	5	Hd.–T.	EI	+0.01		+1.3	+1.7
	6	U.–Pk.	EI	−0.04		+1.5	+0.4
	9	U.–Pk.	EI	−0.03		+0.7	+1.0
	11	U.–Pk.	EI	+0.01		+0.5	+0.3
	12	Hd.–T.	EI	−0.05		+1.0	+0.5
	13	Hd.–T.	EI	+0.01		+0.9	+1.4
	14	U.–Pk.	WI	−0.04		−0.2	+0.3
	15	Hd.–T.	WI	+0.03		+0.9	+0.9
	16	U.–Pk.	WI	+0.01		+0.8	+0.8
	17	Hd.–T.	WI	----		+1.0	---
	18	U.–Pk.	WI	−0.04		−0.2	−0.7
	23	Hd.–T.	WI	−0.03		+0.9	+0.7
Mean		1909.36–1909.36		−0.015		+0.76	+0.66
		1909.36					
Corr				−0.081		+0.05	+0.05

μ Virginis

				h m s	° ′ ″	″ A	″ B
				14 38 18.937	−5 16 2.25,	2.25	
1909							
May	5	Hd.–T.	EI	+0.03		−0.5	+1.4
	6	U.–Pk.	EI	−0.01		---	−0.8
	9	U.–Pk.	EI	+0.03		+0.1	+0.1
	11	U.–Pk.	EI	+0.04		+0.2	−1.5
	12	Hd.–T.	EI	+0.01		−0.5	−0.5
	13	Hd.–T.	EI	+0.02		−0.6	−0.4
	14	U.–Pk.	WI	+0.05		−1.2	−0.7
	15	Hd.–T.	WI	+0.01		−0.5	−0.1
	16	U.–Pk.	WI	+0.07		−0.1	+0.9
	18	U.–Pk.	WI	----		−0.6	−1.3
	23	Hd.–T.	WI	−0.02		+0.3	−0.1
Mean		1909.36–1909.36		+0.023		−0.34	−0.27
		1909.36					
Corr				−0.081		+0.02	+0.02

ε Boötis [1]

				h m s	° ′ ″	″ A	″ B
				14 41 3.395	+27 27 11.51,	11.51	
1909							
May	5	Hd.–T.	EI	+0.02		+0.4	+0.9
	6	U.–Pk.	EI	−0.05		+1.0	−0.9
	9	U.–Pk.	EI	+0.05		---	+0.7
	11	U.–Pk.	EI	−0.02		−0.6	+0.1
	12	Hd.–T.	EI	−0.04		−0.1	+0.4
	13	Hd.–T.	EI	−0.03		+0.2	+0.3
	14	U.–Pk.	WI	+0.04		−0.9	−1.1
	15	Hd.–T.	WI	+0.05		+0.3	+0.1
	16	U.–Pk.	WI	−0.01		−0.2	−0.2
	17	Hd.–T.	WI	+0.01		−0.4	+0.2
	18	U.–Pk.	WI	+0.06		−0.2	+1.1
	23	Hd.–T.	WI	0.00		+0.2	−0.5
Mean		1909.36–1909.37		+0.007		−0.03	+0.09
		1909.36					
Corr				−0.081		+0.04	+0.04

δ Ursæ Minoris

				h m s	° ′ ″	″ A	″ B
				18 1 ----	+86 36 50.77,	50.77	
1909							
Sept.	*25*	*Hd.*	*WI*	*−0.29*		*−0.2*	---
	26	*U.*	*WI*	*+0.09*		*+0.4*	---
	28	*Hd.*	*WI*	*+0.11*		*−0.2*	---
	29	*U.*	*WI*	*−0.03*		*+1.4*	---
	30	*T.*	*WI*	*−0.66*		*+0.6*	---
Oct.	*1*	*Hd.*	*WI*	*−0.13*		*+0.3*	---
	2	*T.*	*WI*	*−0.18*		*−0.6*	---
	8	*U.*	*WI*	*−0.49*		*+0.1*	---
1909				s	″ A	″ B	
Oct.	*4*	*Hd.*	*EI*	*+0.34*	*−0.5*	---	
	5	*T.*	*EI*	*−0.46*	*+0.2*	---	
	6	*U.*	*EI*	*+0.37*	*+0.4*	---	
	7	*Hd.*	*EI*	*+0.54*	*+0.7*	---	
	8	*T.*	*EI*	*+0.76*	*+0.2*	---	
	9	*U.*	*EI*	*+0.07*	*+0.6*	---	
1910							
Sept.	7	Fn.	EI	----	−0.4	−1.5	
	8	Fn.	EI	----	+0.3	−1.2	
	15	*Fn.*	*EI*	----	*+0.4*	*−0.2*	
	20	*Fn.*	*EI*	----	*−1.5*	*−0.9*	
	22	*Fn.*	*WI*	----	*−0.8*	*−0.9*	
	26	*Fn.*	*WI*	----	*+2.0*	*+1.8*	
	28	*Fn.*	*WI*	----	*−0.4*	*−0.4*	
Oct.	*5*	*Fn.*	*EI*	----	*+0.1*	---	
	6	*Fn.*	*EI*	----	*−0.2*	*−0.7*	
	10	*Fn.*	*EI*	----	*−1.4*	*−1.7*	
	13	*Fn.*	*EII*	----	*−0.3*	*−1.4*	
Mean		1910.69		----	−0.05	−1.35	
Corr				----	+0.08	+0.08	

δ Ursæ Minoris s. p.

				h m s	° ′ ″	″ A	″ B
				18 1 17.78	+86 36 50.72,	50.72	
1909							
Feb.	8	Hd.–Pk.	EI	+0.33		−1.1	−1.2
	10	Hd.–Pk.	EI	−0.29		+0.2	+0.2
	11	U.–T.	EI	+0.23		+0.6	+0.6
	16	U.–T.	EI	−0.54		---	+0.5
	17	Hd.–Pk.	EI	−0.41		−0.1	+0.1
	18	U.–T.	EI	−0.40		+0.6	−2.2
	20	Hd.–Pk.	WI	+0.10		+0.7	+0.7
	25	U.–Hd.	WI	+0.07		+0.8	+0.5
	28	U.–T.	WI	+0.99		+0.2	−1.2
Mar.	5	U.–Pk.	WI	+0.20		+1.0	0.0
	7	U.–T.	WI	+1.28		---	+1.1
	9	U.–Pk.	WI	+0.14		+0.4	+0.8
	10	Hd.–T.	WI	−1.27		+0.8	+1.2
	11	Hd.–T.	WI	−0.06		+0.5	+0.9
Sept.	*24*	*U.*	*WI*	*+0.73*	*+0.6*	---	
	25	*Hd.*	*WI*	*+0.06*	*+0.1*	---	
	28	Hd.	WI	+0.11	−0.1	---	
	30	T.	WI	−0.54	+0.3	---	
Oct.	1	Hd.	WI	−0.93	+0.2	---	
	2	T.	WI	+0.03	+0.4	---	
	4	Hd.	EI	+0.88	+0.3	---	
	5	T.	EI	----	+0.2	---	
	6	U.	EI	+0.01	−0.8	---	
	7	Hd.	EI	+0.81	−0.6	---	
	8	T.	EI	+0.54	+0.2	---	
	12	U.	EI	+0.82	−0.3	---	
	16	T.	EI	+0.66	−1.0	---	
	19	Hd.	EI	+0.29	−1.0	---	
1910							
Sept.	*7*	*Fn.*	*EI*	----	*−0.9*	*−0.5*	
	9	*Fn.*	*EI*	----	*−0.9*	*+1.1*	
	16	*Fn.*	*EI*	----	*−1.5*	*−0.5*	
	17	*Fn.*	*EI*	----	*+1.5*	*+0.1*	
	21	*Fn.*	*EI*	----	*+0.1*	*+0.8*	
	22	*Fn.*	*WI*	----	*−0.4*	*−0.6*	
	25	*Fn.*	*WI*	----	*−0.1*	*−0.2*	
	26	*Fn.*	*WI*	----	*+1.1*	*+0.4*	
Oct.	2	Fn.	WI	----	+0.6	−1.0	
	4	Fn.	WI	----	−0.4	−2.0	
	11	Fn.	EII	----	−0.4	+1.2	
	14	Fn.	EII	----	−0.1	−0.5	
Mean		1909.42–1909.64		+0.12	+0.08	−0.02	
		1909.51					
Corr				−0.08	−0.09	−0.09	

[1] Double; s. fol. component observed.

μ Sagittarii

			h m s	° ′ ″	″
			18 8 ----	−21 4 ---	---
1909				A	B
Sept. 28	*Hd.*	*WI*	*+0. 11*	*−0. 1*	---
29	*U.*	*WI*	----	*+0. 4*	---
30	*T.*	*WI*	*+0. 11*	*+0. 2*	---
Oct. 2	*T.*	*WI*	*+0. 04*	*+0. 4*	---
3	*U.*	*WI*	*+0. 07*	*+0. 8*	---
5	*T.*	*EI*	*+0. 10*	*+0. 7*	---
6	*U.*	*EI*	*+0. 11*	*+0. 6*	---
7	*Hd.*	*EI*	*+0. 06*	*+0. 8*	---
9	*U.*	*EI*	*+0. 18*	*+0. 3*	---

36 Draconis

			h m s	° ′ ″	″
			18 13 ----	+64 21 ---	---
1909				A	B
Sept. 25	*Hd.*	*WI*	*−0. 04*	*+0. 4*	---
28	*Hd.*	*WI*	*+0. 03*	*+0. 3*	---
29	*U.*	*WI*	*−0. 09*	*+0. 5*	---
30	*T.*	*WI*	*+0. 03*	*+1. 0*	---
Oct. 1	*Hd.*	*WI*	*+0. 07*	*+0. 4*	---
2	*T.*	*WI*	*+0. 02*	*+0. 5*	---
3	*U.*	*WI*	*−0. 11*	*+0. 5*	---
4	*Hd.*	*EI*	*+0. 02*	*−0. 9*	---
5	*T.*	*EI*	*+0. 05*	*+0. 5*	---
6	*U.*	*EI*	*+0. 12*	*+0. 9*	---
7	*Hd.*	*EI*	*−0. 04*	*−0. 2*	---
8	*T.*	*EI*	*+0. 03*	*+0. 4*	---
9	*U.*	*EI*	*+0. 03*	*+0. 7*	---

36 Draconis s. p.

			h m s	° ′ ″	″
			18 13 22. 720	+64 21 59. 92	---
1909				A	B
Sept. 30	T.	WI	+0. 07	−1. 0	---
Oct. 1	Hd.	WI	−0. 02	+0. 6	---
2	T.	WI	+0. 03	−0. 8	---
4	Hd.	EI	+0. 10	+0. 2	---
5	T.	EI	−0. 08	+0. 9	---
6	U.	EI	−0. 10	+0. 3	---
8	T.	EI	−0. 01	+2. 0	---
12	U.	EI	+0. 03	−0. 6	---
16	T.	EI	+0. 32	−1. 0	---
19	Hd.	EI	+0. 03	0. 0	---
Mean----------		1909. 77	+0. 037	+0. 06	---
Corr----------			−0. 081	−0. 17	---

χ Draconis

			h m s	° ′ ″	″
			18 22 ----	+72 41 ---	---
1909				A	B
Sept. 25	*Hd.*	*WI*	*−0. 03*	*−0. 3*	---
28	*Hd.*	*WI*	*+0. 10*	*−0. 4*	---
29	*U.*	*WI*	*−0. 08*	*−0. 4*	---
30	*T.*	*WI*	*+0. 02*	*0. 0*	---
Oct. 1	*Hd.*	*WI*	*−0. 06*	*+1. 1*	---
2	*T.*	*WI*	*−0. 01*	*0. 0*	---
3	*U.*	*WI*	*−0. 15*	*+0. 6*	---
4	*Hd.*	*EI*	*+0. 08*	*+0. 3*	---
5	*T.*	*EI*	*+0. 08*	*+0. 4*	---
6	*U.*	*EI*	*+0. 14*	*+1. 4*	---
7	*Hd.*	*EI*	*−0. 01*	*+1. 4*	---
8	*T.*	*EI*	*+0. 06*	*+0. 8*	---
9	*U.*	*EI*	*−0. 01*	*+0. 8*	---

χ Draconis s. p.

			h m s	° ′ ″	″
			18 22 40. 873	+72 41 38. 28	---
1909				A	B
Sept. 24	*U.*	*WI*	----	*−0. 3*	---
25	*Hd.*	*WI*	*−0. 04*	*+2. 0*	---
28	*Hd.*	*WI*	*−0. 02*	*+2. 1*	---
30	*T.*	*WI*	*−0. 17*	*−1. 1*	---
Oct. 1	*Hd.*	*WI*	*−0. 22*	*+0. 6*	---
2	T.	WI	−0. 13	+0. 4	---
4	Hd.	EI	+0. 02	+0. 1	---
5	T.	EI	+0. 02	0. 0	---
6	U.	EI	−0. 16	−0. 3	---
7	Hd.	EI	−0. 08	+2. 5	---
8	T.	EI	−0. 05	+0. 7	---
12	U.	EI	+0. 09	−1. 1	---
16	T.	EI	−0. 21	+0. 8	---
19	Hd.	EI	+0. 01	+0. 3	---
Mean----------		1909. 77	−0. 054	+0. 38	---
Corr----------			−0. 081	−0. 13	---

1 Aquilæ

			h m s	° ′ ″	″
			18 30 18. 567	−8 18 27. 38	---
1909				A	B
Sept. 25	Hd.	WI	+0. 01	−0. 6	---
26	U.	WI	----	+0. 4	---
28	*Hd.*	*WI*	*+0. 07*	*+0. 3*	---
29	*U.*	*WI*	*−0. 01*	*+0. 1*	---
30	*T.*	*WI*	*−0. 04*	*+1. 7*	---
Oct. 1	*Hd.*	*WI*	*+0. 06*	*−0. 3*	---
2	*T.*	*WI*	*+0. 02*	*+0. 1*	---
3	*U.*	*WI*	*+0. 07*	*+0. 7*	---
4	*Hd.*	*EI*	*+0. 11*	*+0. 7*	---
5	*T.*	*EI*	*−0. 01*	*0. 0*	---
6	*U.*	*EI*	*+0. 10*	*+1. 3*	---
7	*Hd.*	*EI*	*+0. 05*	*+0. 4*	---
8	*T.*	*EI*	*+0. 04*	*−0. 2*	---
9	*U.*	*EI*	----	*+0. 3*	---
Mean_ 1909. 73–1909. 74			+0. 010	−0. 10	---
Corr----------			−0. 081	+0. 02	---

α Lyræ

			h m s	° ′ ″	″
			18 33 53. 470	+38 41 57. 83	---
1909				A	B
Sept. 24	U.	WI	−0. 01	−0. 2	---
25	Hd.	WI	+0. 03	−0. 1	---
26	U.	WI	----	−0. 1	---
28	Hd.	WI	+0. 01	+0. 2	---
29	*U.*	*WI*	*0. 00*	*−0. 3*	---
30	*T.*	*WI*	*0. 00*	*[+1. 7]*	---
Oct. 1	*Hd.*	*WI*	*+0. 02*	*+0. 1*	---
2	*T.*	*WI*	*0. 00*	*−1. 3*	---
3	*U.*	*WI*	*−0. 02*	*+0. 2*	---
4	*Hd.*	*EI*	*−0. 02*	*+0. 5*	---
5	*T.*	*EI*	*−0. 01*	*−0. 2*	---
6	*U.*	*EI*	*+0. 03*	*[+1. 9]*	---
7	*Hd.*	*EI*	*−0. 03*	*−0. 4*	---
8	*T.*	*EI*	*+0. 04*	*+0. 2*	---
9	*U.*	*EI*	*−0. 05*	*0. 0*	---
Mean_ 1909. 74–1909. 74			+0. 010	−0. 05	---
Corr----------			−0. 081	+0. 05	---

φ Sagittarii

			h m s	° ′ ″	″
			18 40 2. 022	−27 5 2. 27	---
1909				A	B
Sept. 25	Hd.	WI	+0. 09	−0. 2	---
28	Hd.	WI	+0. 07	+0. 3	---
29	U.	WI	+0. 09	+0. 1	---

1909			s	″ A	″ B
Sept. 30	T.	WI	+0.07	+0.7	---
Oct. 1	Hd.	WI	+0.12	+2.5	---
2	T.	WI	+0.12	+0.7	---
3	U.	WI	+0.12	+1.0	---
4	Hd.	EI	+0.19	+1.9	---
5	T.	EI	+0.09	+0.1	---
7	Hd.	EI	+0.10	+0.7	---
8	T.	EI	+0.10	−0.7	---
9	U.	EI	+0.03	−0.1	---
Mean----------	1909.74		+0.080	+0.22	---
Corr----------			−0.081	−0.02	---

50 Draconis

h m s 18 49 17.019 ° ′ ″ +75 19 40.86 ″ ---

1909			″ A	″ B
Sept. 24	U.	WI	+0.6	---
25	Hd.	WI	+0.06	+1.1	---
28	Hd.	WI	+0.13	+0.6	---
29	U.	WI	−0.16	+1.5	---
30	T.	WI	+0.05	+0.9	---
Oct. 1	Hd.	WI	+0.06	+1.1	---
2	T.	WI	+0.03	+1.2	---
3	U.	WI	−0.01	+1.7	---
4	Hd.	EI	+0.15	+2.1	---
5	T.	EI	+0.18	+1.3	---
6	U.	EI	+0.15	+2.2	---
7	Hd.	EI	+0.04	+1.8	---
8	T.	EI	−0.01	+2.0	---
9	U.	EI	−0.01	+1.7	---
Mean 1909.75–1909.75			+0.054	+1.21	---
Corr----------			−0.081	+0.07	---

50 Draconis s. p.

h m s 18 49 17.020 ° ′ ″ +75 19 40.84, 40.83 ″ ---

1909			″ A	″ B
Feb. 8	Hd.–Pk.	EI	−0.28	+0.6	+1.3
11	U.–T.	EI	+0.04	---	−0.8
16	U.–T.	EI	−0.02	---	+0.6
17	Hd.–Pk.	EI	−0.16	+1.0	+1.3
20	Hd.–Pk.	WI	−0.21	+1.0	+2.2
25	U.–Hd.	WI	----	+1.0	+1.7
28	U.–T.	WI	+0.14	+0.5	+1.0
Mar. 5	U.–Pk.	WI	----	+1.0	+0.3
7	U.–T.	WI	−0.13	+0.5	−0.5
9	U.–Pk.	WI	----	+1.2	---
10	Hd.–T.	WI	−0.35	+2.1	+2.1
11	Hd.–T.	WI	−0.01	+1.4	+1.2
Oct. 1	Hd.	WI	−0.09	+0.6	---
4	Hd.	EI	+0.19	+0.6	---
5	T.	EI	+0.10	+0.6	---
6	U.	EI	−0.01	+1.1	---
7	Hd.	EI	−0.06	+0.6	---
8	T.	EI	+0.06	+2.1	---
12	U.	EI	+0.04	+0.7	---
16	T.	EI	+0.07	−0.1	---
19	Hd.	EI	+0.03	+2.0	---
Mean 1909.38–1909.37 1909.15			−0.060	+1.04	+0.95
Corr----------			−0.081	−0.12	−0.12

ι Lyræ

h m s 19 4 5.431 ° ′ ″ +35 57 30.81 ″ ---

1909			″ A	″ B
Sept. 25	Hd.	WI	−0.05	+0.4	---
28	Hd.	WI	−0.02	−0.2	---
29	U.	WI	−0.05	+0.4	---
30	T.	WI	−0.09	+0.3	---
Oct. 2	T.	WI	−0.03	+0.9	---
3	U.	WI	+0.02	+0.7	---
4	Hd.	EI	−0.02	+0.2	---
5	T.	EI	−0.04	−0.4	---
7	Hd.	EI	−0.07	0.0	---
8	T.	EI	+0.02	+0.4	---
9	U.	EI	0.00	+1.7	---
Mean----------	1909.76		−0.030	+0.40	---
Corr----------			−0.081	+0.05	---

τ Draconis

h m s 19 17 17.488 ° ′ ″ +73 11 19.18 ″ ---

1909			″ A	″ B
Sept. 24	U.	WI	−0.05	−0.6	---
25	Hd.	WI	−0.13	+0.3	---
28	Hd.	WI	+0.02	+0.3	---
29	U.	WI	−0.18	+0.8	---
30	T.	WI	−0.08	−0.4	---
Oct. 1	Hd.	WI	−0.04	0.0	---
2	T.	WI	−0.02	−0.4	---
3	U.	WI	−0.04	−0.3	---
4	Hd.	EI	+0.02	+0.1	---
6	U.	EI	+0.15	+1.0	---
7	Hd.	EI	+0.06	+0.9	---
8	T.	EI	−0.04	−0.2	---
9	U.	EI	+0.05	+1.7	---
Mean----------	1909.75		−0.022	+0.25	---
Corr----------			−0.081	+0.07	---

τ Draconis s. p.

h m s 19 17 17.486 ° ′ ″ +73 11 19.18 ″ ---

1909			″ A	″ B
Sept. 28	Hd.	WI	+0.03	−0.2	---
Oct. 1	Hd.	WI	−0.12	+0.6	---
5	T.	EI	+0.24	0.0	---
8	T.	EI	+0.08	+1.7	---
12	U.	EI	----	−1.1	---
16	T.	EI	+0.07	−0.1	---
19	Hd.	EI	+0.04	+0.7	---
Mean----------	1909.80		+0.055	+0.30	---
Corr----------			−0.081	−0.13	---

δ Aquilæ

h m s 19 20 57.640 ° ′ ″ +2 56 4.98 ″ ---

1909			″ A	″ B
Sept. 24	U.	WI	+0.01	−1.4	---
25	Hd.	WI	+0.03	−0.9	---
28	Hd.	WI	+0.02	−0.1	---
29	U.	WI	+0.05	−1.4	---
30	T.	WI	0.00	+0.6	---
Oct. 1	Hd.	WI	+0.04	−0.5	---
2	T.	WI	0.00	−0.5	---
3	U.	WI	+0.03	−0.6	---
4	Hd.	EI	+0.03	−0.1	---
6	U.	EI	+0.03	+0.9	---
7	Hd.	EI	+0.04	+0.3	---
8	T.	EI	+0.06	+0.1	---
9	U.	EI	+0.07	−0.3	---
Mean----------	1909.75		+0.032	−0.30	---
Corr----------			−0.081	+0.03	---

β Cygni

			h m s	° ′ ″	″
			19 27 5.494	+27 46 12.35	---
1909				A	B
Sept. 24	U.	WI	+0.04	0.0	---
25	Hd.	WI	+0.06	0.0	---
28	Hd.	WI	+0.01	−0.2	---
29	U.	WI	+0.04	−0.2	---
30	T.	WI	0.00	+1.1	---
Oct. 1	Hd.	WI	−0.05	+0.2	---
2	T.	WI	+0.07	−0.3	---
3	U.	WI	+0.01	−0.1	---
4	Hd.	EI	+0.03	−0.1	---
6	U.	EI	+0.04	+0.8	---
7	Hd.	EI	0.00	−0.2	---
8	T.	EI	+0.05	−0.6	---
9	U.	EI	+0.03	+1.8	---
Mean	1909.75		+0.025	+0.17	---
Corr			−0.081	+0.05	---

h Sagittarii

			h m s	° ′ ″	″
			19 31 13.885	−25 4 58.51	---
1909				A	B
Sept. 24	U.	WI	+0.10	+0.4	---
25	Hd.	WI	+0.05	+0.3	---
28	Hd.	WI	+0.13	+1.1	---
29	U.	WI	+0.07	+0.7	---
30	T.	WI	+0.04	+1.2	---
Oct. 1	Hd.	WI	+0.11	+1.1	---
2	T.	WI	+0.05	+0.1	---
3	U.	WI	+0.08	+0.8	---
4	Hd.	EI	+0.24	+1.6	---
6	U.	EI	+0.08	+0.6	---
7	Hd.	EI	+0.05	−0.9	---
8	T.	EI	+0.09	−0.2	---
9	U.	EI	+0.05	+0.9	---
Mean	1909.75		+0.088	+0.59	---
Corr			−0.081	−0.01	---

β Sagittæ

			h m s	° ′ ″	″
			19 37 0.386	+17 16 1.18	---
1909				A	B
Sept. 24	U.	WI	+0.06	−1.3	---
25	Hd.	WI	+0.02	−0.3	---
28	Hd.	WI	−0.04	+0.1	---
29	U.	WI	0.00	0.0	---
30	T.	WI	+0.07	+0.4	---
Oct. 1	Hd.	WI	+0.01	−0.8	---
2	T.	WI	+0.05	+0.8	---
3	U.	WI	+0.05	+0.8	---
4	Hd.	EI	+0.09	−0.1	---
6	U.	EI	+0.03	[+2.0]	---
7	Hd.	EI	+0.05	+0.6	---
8	T.	EI	+0.03	−0.5	---
9	U.	EI	+0.01	+0.2	---
Mean	1909.75–1909.75		+0.033	−0.01	---
Corr			−0.081	+0.04	---

γ Aquilæ

			h m s	° ′ ″	″
			19 41 58.854	+10 23 36.02	---
1909				A	B
Sept. 24	U.	WI	+0.05	+0.8	---
25	Hd.	WI	+0.05	+0.8	---
28	Hd.	WI	+0.05	+0.8	---
29	U.	WI	+0.01	−0.8	---
30	T.	WI	+0.01	−0.2	---
Oct. 1	Hd.	WI	+0.03	−0.2	---
2	T.	WI	0.00	+0.2	---
3	U.	WI	+0.05	+0.3	---
4	Hd.	EI	+0.07	+0.8	---
5	T.	EI	+0.09	−0.1	---
6	U.	EI	+0.09	+1.3	---
7	Hd.	EI	+0.03	−0.1	---
8	T.	EI	+0.03	0.0	---
9	U.	EI	+0.03	+0.3	---
Mean	1909.75		+0.042	+0.28	---
Corr			−0.081	+0.03	---

ε Draconis [1]

			h m s	° ′ ″	″
			19 48 29.054	+70 2 19.24	---
1909				A	B
Sept. 24	U.	WI	−0.12	+0.1	---
25	Hd.	WI	−0.06	+0.7	---
28	Hd.	WI	−0.01	+1.1	---
29	U.	WI	−0.08	0.0	---
30	T.	WI	0.00	+0.7	---
Oct. 1	Hd.	WI	−0.04	+1.0	---
2	T.	WI	−0.07	+0.6	---
3	U.	WI	−0.04	+1.0	---
4	Hd.	EI	−0.01	−0.5	---
5	T.	EI	−0.15	+0.6	---
6	U.	EI	−0.06	+1.3	---
7	Hd.	EI	−0.05	+1.2	---
8	T.	EI	+0.06	+0.1	---
9	U.	EI	−0.01	+0.9	---
Mean	1909.75		−0.046	+0.63	---
Corr			−0.081	+0.07	---

ε Draconis s. p.

			h m s	° ′ ″	″
			19 48 ----	+70 2 ---	---
1909				A	B
Sept. 25	*Hd.*	*WI*	*−0.05*	*+0.5*	---
Oct. 5	*T.*	*EI*	*−0.05*	*0.0*	---
8	*T.*	*EI*	*+0.02*	*+0.7*	---
16	*T.*	*EI*	*−0.16*	*−0.1*	---
19	*Hd.*	*EI*	*+0.01*	*+0.9*	---

Groombridge 3241 s. p.

			h m s	° ′ ″	″
			20 30 24.190	+72 13 36.53, 36.53	
1909				A	B
Feb. 11	U.–T.	EI	+0.15	+1.9	−0.4
16	U.–T.	EI	−0.22	+1.2	+0.2
17	Hd.–Pk.	EI	+0.18	−0.2	+1.3
18	U.–T.	EI	+0.10	−0.5	+0.3
20	Hd.–Pk.	WI	−0.10	−0.3	−1.9
25	U.–Hd.	WI	----	+0.8	+0.2
28	U.–T.	WI	+0.04	−0.7	−0.5
Mar. 5	U.–Pk.	WI	+0.23	+1.6	−0.3
7	U.–T.	WI	−0.01	+0.1	−0.3
10	Hd.–T.	WI	+0.07	+0.1	−0.6
11	Hd.–T.	WI	+0.09	+1.8	+0.5
Mean	1909.16–1909.16		+0.053	+0.53	−0.14
Corr			−0.081	−0.13	−0.13

Bradley 2777 s. p.

			h m s	° ′ ″	″
			21 7 19.163	+77 45 41.57, 41.57	
1909				A	B
Feb. 11	U.–T.	EI	−0.09	0.0	+1.5
16	U.–T.	EI	−0.46	+0.4	[+3.6
17	Hd.–Pk.	EI	−0.26	+1.7	+1.7
18	U.–T.	EI	−0.43	+0.3	+0.4

[1] Double; s. component observed.

1909			s	″ A	″ B
Feb. 20	Hd.–Pk.	WI	−0.56	0.0	+0.3
25	U.–Hd.	WI	−0.49	+1.5	−1.1
28	U.–T.	WI	+0.07	+0.7	+0.4
Mar. 5	U.–Pk.	WI	−0.41	+1.6	+0.3
10	Hd.–T.	WI	−0.40	---	0.0
11	Hd.–T.	WI	−0.69	+0.6	+1.3
Mean 1909.15–1909.15 1909.16			−0.372	+0.76	+0.53
Corr			−0.081	−0.11	−0.11

226 B. Cephei s. p.

h 22 m 30 s 41.778 ° +75 ′ 45 ″ 45.20, 45.20

1909			″ A	″ B
Mar. 15	Hd.–T.	WI	−0.04	−1.1	+0.5
17	Hd.–T.	WI	−0.13	−0.7	+0.2
18	U.–T.	WI	−0.20	---	−1.1
20	Hd.–T.	WI	−0.07	0.0	−0.5
21	U.–Pk.	WI	−0.20	+0.7	0.0
22	Hd.–T.	WI	−0.18	+0.4	+0.4
23	U.–Pk.	EI	−0.06	---	+0.7
26	U.–Pk.	EI	0.00	+1.8	+1.5
28	U.–Pk.	EI	+0.10	−0.4	+0.4
30	U.–Pk.	EI	+0.06	−0.3	+0.5
31	Hd.–T.	EI	+0.07	+0.7	−1.3
Apr. 3	Hd.–T.	EI	−0.04	+0.5	−0.9
Mean 1909.23–1909.23			−0.058	+0.16	+0.03
Corr			−0.081	−0.12	−0.12

α Pegasi

h 23 m 0 s 16.598 ° +14 ′ 43 ″ 15.09 ″ ---

1909			″ A	″ B
Sept. 25	Hd.	WI	+0.05	−0.2	---
28	Hd.	WI	+0.05	+0.1	---
29	U.	WI	+0.07	−0.4	---
30	T.	WI	+0.06	+0.9	---
Oct. 1	Hd.	WI	+0.07	+0.8	---
2	T.	WI	+0.11	−0.2	---
4	Hd.	EI	+0.06	−1.0	---
5	T.	EI	+0.06	+0.1	---
6	U.	EI	+0.02	+0.1	---
7	Hd.	EI	+0.06	−0.4	---
8	T.	EI	+0.03	−0.7	---
9	U.	EI	+0.05	+0.2	---
12	U.	EI	−0.01	−0.5	---
13	Hd.	EI	+0.06	−0.5	---
16	T.	EI	+0.02	−0.7	---
17	Hd.	EI	+0.04	−0.4	---
19	Hd.	EI	+0.04	0.0	---
20	T.	WI	+0.04	+0.8	---
22	T.	WI	+0.07	+0.1	---
Dec. 5	U.	EI	0.00	−1.0	---
6	Hd.	EI	+0.06	−1.7	---
8	U.	EI	+0.05	−0.2	---
15	Hd.	EI	0.00	−0.6	---
16	U.	EI	----	−0.1	---
18	Hd.	EI	+0.04	−0.4	---
20	Hd.	EI	+0.04	−0.5	---
21	U.	EI	+0.04	−0.7	---
29	*Hd.*	*WI*	----	*−0.4*	---
30	*Hd.*	*WI*	*+0.04*	*+0.9*	---
1910					
Jan. 4	*Hd.*	*WI*	*+0.03*	*−1.2*	---
7	*T.*	*WI*	*+0.11*	*+0.1*	---
8	*U.*	*WI*	*+0.02*	*−0.5*	---
9	*Hd.*	*WI*	*+0.02*	*−0.9*	---
10	*T.*	*WI*	*+0.02*	*+0.3*	---
15	*T.*	*WI*	*+0.04*	*−0.1*	---
Mean 1909.82–1909.82			+0.045	−0.26	---
Corr			−0.081	+0.04	---

c^2 Aquarii

h 23 m 4 s 38.960 ° −21 ′ 39 ″ 40.22 ″ ---

1909			″ A	″ B
Sept. 24	U.	WI	+0.11	−0.7	---
25	Hd.	WI	+0.14	0.0	---
28	Hd.	WI	+0.07	+0.4	---
29	U.	WI	+0.02	−0.4	---
30	T.	WI	+0.04	+0.4	---
Oct. 1	Hd.	WI	+0.11	−0.2	---
2	T.	WI	+0.12	+0.7	---
4	Hd.	EI	+0.12	+1.7	---
5	T.	EI	+0.07	+0.9	---
6	U.	EI	+0.12	+0.7	---
7	Hd.	EI	+0.10	+0.3	---
8	T.	EI	+0.08	+0.4	---
9	U.	EI	+0.11	+0.6	---
12	U.	EI	+0.16	+2.1	---
13	Hd.	EI	+0.05	+2.4	---
16	T.	EI	+0.09	+2.1	---
17	Hd.	EI	+0.12	+1.9	---
19	Hd.	EI	+0.11	+1.1	---
20	T.	WI	+0.07	−0.5	---
22	T.	WI	+0.12	−0.1	---
Dec. 5	U.	EI	+0.12	+0.1	---
6	Hd.	EI	+0.06	+0.7	---
8	U.	EI	+0.07	−0.5	---
15	Hd.	EI	+0.13	−0.6	---
18	Hd.	EI	+0.08	+1.2	---
20	Hd.	EI	+0.12	+1.2	---
21	U.	EI	+0.10	−1.1	---
29	*Hd.*	*WI*	----	*+0.6*	---
30	*Hd.*	*WI*	*+0.16*	*−0.6*	---
1910					
Jan. 4	*Hd.*	*WI*	*+0.12*	*−1.1*	---
Mean 1909.82			+0.097	+0.55	---
Corr			−0.081	0.00	---

5 H¹. Cassiopeiæ

h 23 m 8 s 56.737 ° +56 ′ 40 ″ 17.01 ″ ---

1909			″ A	″ B
Dec. 5	U.	EI	−0.12	−0.5	---
6	Hd.	EI	−0.05	−0.1	---
8	U.	EI	−0.07	−0.4	---
15	Hd.	EI	−0.03	−0.6	---
16	U.	EI	−0.04	−0.2	---
18	Hd.	EI	−0.11	+0.4	---
20	Hd.	EI	−0.04	−0.2	---
21	U.	EI	−0.02	+0.1	---
29	*Hd.*	*WI*	----	*+0.1*	---
30	*Hd.*	*WI*	*−0.12*	*−0.2*	---
1910					
Jan. 4	*Hd.*	*WI*	*−0.16*	*−0.4*	---
7	*T.*	*WI*	----	*−0.3*	---
8	*U.*	*WI*	----	*−0.7*	---
9	*Hd.*	*WI*	*−0.07*	*−0.5*	---
Mean 1909.95			−0.060	−0.19	---
Corr			−0.081	+0.06	---

φ Aquarii

h 23 m 9 s 39.699 ° −6 ′ 32 ″ 3.64 ″ ---

1909			″ A	″ B
Sept. 24	U.	WI	+0.16	−0.6	---
25	Hd.	WI	+0.11	+0.6	---
28	Hd.	WI	+0.05	+0.1	---
29	U.	WI	+0.10	−0.8	---
30	T.	WI	−0.01	+1.0	---
Oct. 1	Hd.	WI	+0.14	+0.3	---

1909			s	″ A	″ B
Oct. 2	T.	WI	+0.10	+0.1	---
4	Hd.	EI	+0.05	+0.2	---
5	T.	EI	+0.04	+1.8	---
6	U.	EI	+0.06	+0.9	---
7	Hd.	EI	+0.02	−0.3	---
8	T.	EI	+0.02	+0.5	---
9	U.	EI	+0.01	+1.8	---
12	U.	EI	+0.03	+1.4	---
13	Hd.	EI	+0.07	+0.7	---
16	T.	EI	+0.04	+0.5	---
17	Hd.	EI	+0.04	+0.7	---
19	Hd.	EI	+0.05	+0.3	---
20	T.	WI	−0.01	−0.5	---
22	T.	WI	+0.12	+0.3	---
Mean	1909.77		+0.060	+0.45	---
Corr			−0.081	+0.02	---

γ Piscium

h m s 23 12 29.957 ° ′ ″ +2 47 25.46 ″ ---

1909			s	″ A	″ B
Sept. 24	U.	WI	+0.08	−1.7	---
25	Hd.	WI	+0.10	+1.2	---
28	Hd.	WI	+0.10	−0.1	---
29	U.	WI	0.00	−0.9	---
30	T.	WI	+0.08	+0.5	---
Oct. 1	Hd.	WI	+0.05	+0.6	---
2	T.	WI	+0.08	+0.3	---
4	Hd.	EI	+0.08	0.0	---
5	T.	EI	+0.04	+0.5	---
6	U.	EI	+0.08	+0.5	---
7	Hd.	EI	+0.04	−0.5	---
8	T.	EI	+0.03	+0.5	---
9	U.	EI	----	+0.7	---
12	U.	EI	+0.10	+0.1	---
13	Hd.	EI	+0.06	0.0	---
16	T.	EI	+0.07	0.0	---
17	Hd.	EI	+0.06	+0.4	---
19	Hd.	EI	+0.03	+0.2	---
20	T.	WI	+0.09	−0.1	---
22	T.	WI	+0.08	−0.7	---
Dec. 5	U.	EI	+0.10	+0.2	---
6	Hd.	EI	+0.03	−0.2	---
8	U.	EI	+0.01	−0.5	---
14	Hd.	EI	+0.09	+0.2	---
15	Hd.	EI	+0.04	+0.1	---
16	U.	EI	----	+0.4	---
18	Hd.	EI	+0.06	+0.3	---
20	Hd.	EI	+0.08	−0.1	---
21	U.	EI	+0.04	−0.1	---
29	*Hd.*	*WI*	----	*−0.4*	---
30	*Hd.*	*WI*	*+0.11*	*−0.3*	---
1910					
Jan. 4	*Hd.*	*WI*	*+0.09*	*−1.3*	---
7	*T.*	*WI*	*+0.09*	*+0.6*	---
8	*U.*	*WI*	*+0.05*	*−0.6*	---
9	*Hd.*	*WI*	*+0.06*	*−0.9*	---
10	*T.*	*WI*	*+0.02*	*+0.1*	---
15	*T.*	*WI*	*+0.05*	*+0.9*	---
Mean	1909.82–1909.82		+0.063	+0.06	---
Corr			−0.081	+0.03	---

τ Pegasi

h m s 23 16 10.826 ° ′ ″ +23 14 51.16 ″ ---

1909			s	″ A	″ B
Sept. 24	U.	WI	0.00	−0.4	---
25	Hd.	WI	+0.02	−0.1	---
28	Hd.	WI	+0.08	+0.2	---
Sept. 29	U.	WI	+0.03	−1.0	---
30	T.	WI	+0.04	+0.3	---
Oct. 1	Hd.	WI	+0.04	−0.3	---
2	T.	WI	+0.08	+1.0	---
4	Hd.	EI	+0.04	−0.5	---
5	T.	EI	+0.07	+0.1	---
6	U.	EI	+0.03	+0.4	---
7	Hd.	EI	+0.01	+0.1	---
8	T.	EI	+0.04	+0.3	---
9	U.	EI	+0.02	+0.9	---
12	U.	EI	+0.04	+0.4	---
13	Hd.	EI	+0.03	+0.7	---
16	T.	EI	0.00	+0.8	---
17	Hd.	EI	+0.01	+0.6	---
19	Hd.	EI	+0.07	+1.0	---
20	T.	WI	+0.12	+0.6	---
22	T.	WI	+0.07	+0.1	---
Mean	1909.77		+0.042	+0.26	---
Corr			−0.081	+0.04	---

b^1 Aquarii

h m s 23 18 14.688 ° ′ ″ −20 35 31.46 ″ ---

1909			s	″ A	″ B
Dec. 5	U.	EI	+0.06	−0.3	---
6	Hd.	EI	+0.12	0.0	---
8	U.	EI	+0.06	+1.1	---
14	Hd.	EI	+0.10	+1.5	---
15	Hd.	EI	+0.11	−0.3	---
16	U.	EI	+0.08	+0.4	---
18	Hd.	EI	+0.09	+0.1	---
20	Hd.	EI	+0.11	+0.4	---
21	U.	EI	+0.04	+0.9	---
29	*Hd.*	*WI*	----	*−0.3*	---
30	*Hd.*	*WI*	*+0.09*	*−0.2*	---
1910					
Jan. 4	*Hd.*	*WI*	*+0.09*	*+0.3*	---
8	*U.*	*WI*	*+0.05*	*+0.4*	---
9	*Hd.*	*WI*	*+0.09*	*−0.4*	---
Mean	1909.95		+0.086	+0.42	---
Corr			−0.081	0.00	---

υ Pegasi

h m s 23 20 53.131 ° ′ ″ +22 54 30.41 ″ ---

1909			s	″ A	″ B
Sept. 24	U.	WI	----	0.0	---
25	Hd.	WI	−0.01	+0.7	---
28	Hd.	WI	+0.03	+0.7	---
29	U.	WI	0.00	−0.1	---
30	T.	WI	0.00	+0.9	---
Oct. 1	Hd.	WI	+0.02	−0.1	---
2	T.	WI	+0.04	+1.0	---
4	Hd.	EI	+0.01	−0.2	---
5	T.	EI	+0.04	+1.3	---
6	U.	EI	+0.01	+0.9	---
7	Hd.	EI	+0.01	+0.5	---
8	T.	EI	+0.02	+1.2	---
9	U.	EI	+0.01	+0.7	---
13	Hd.	EI	−0.02	+1.0	---
16	T.	EI	+0.06	+0.7	---
17	Hd.	EI	0.00	−0.1	---
19	Hd.	EI	+0.02	+1.1	---
20	T.	WI	+0.06	+0.9	---
22	T.	WI	+0.04	+0.8	---
Mean	1909.77–1909.77		+0.019	+0.63	---
Corr			−0.081	+0.04	---

κ Piscium

				h m s	° ′ ″	″
				23 22 19.133	+0 45 46.27	---
1909					A	B
Dec.	5	U.	EI	−0.03	−0.3	---
	6	Hd.	EI	+0.08	−0.2	---
	8	U.	EI	−0.02	−0.4	---
	14	Hd.	EI	+0.03	−0.2	---
	15	Hd.	EI	+0.02	−0.3	---
	16	U.	EI	+0.01	−0.9	---
	18	Hd.	EI	+0.02	−0.1	---
	20	Hd.	EI	+0.07	−0.4	---
	21	U.	EI	−0.02	−0.2	---
	29	*Hd.*	*WI*	*----*	*0.0*	---
	30	*Hd.*	*WI*	*+0.07*	*−0.1*	---
1910						
Jan.	*4*	*Hd.*	*WI*	*+0.01*	*−0.7*	---
	7	*T.*	*WI*	*+0.07*	*+0.2*	---
Mean			1909.95	+0.018	−0.33	---
Corr				−0.081	+0.03	---

70 Pegasi

				h m s	° ′ ″	″
				23 24 36.113	+12 15 50.18	---
1909					A	B
Sept.	24	U.	WI	+0.02	+0.1	---
	25	Hd.	WI	+0.08	+0.4	---
	28	Hd.	WI	+0.05	−0.1	---
	29	U.	WI	+0.08	0.0	---
	30	T.	WI	+0.01	+1.2	---
Oct.	1	Hd.	WI	+0.10	−0.8	---
	2	T.	WI	+0.04	−0.5	---
	4	Hd.	EI	+0.02	−0.2	---
	5	T.	EI	+0.02	+1.7	---
	6	U.	EI	−0.01	+1.5	---
	7	Hd.	EI	+0.03	+0.2	---
	8	T.	EI	0.00	+0.4	---
	9	U.	EI	+0.02	+0.4	---
	12	U.	EI	----	+0.3	---
	13	Hd.	EI	+0.03	+1.5	---
	16	T.	EI	+0.02	+1.8	---
	17	Hd.	EI	+0.04	+0.4	---
	19	Hd.	EI	+0.01	+0.4	---
	20	T.	WI	+0.05	+0.2	---
	22	T.	WI	+0.09	−0.3	---
Mean			1909.77–1909.77	+0.037	+0.43	---
Corr				−0.081	+0.03	---

39 H. Cephei

				h m s	° ′ ″	″
				23 27 45.86	+86 48 39.82	---
1909					A	B
Dec.	5	U.	EI	+0.81	−1.0	---
	6	Hd.	EI	+0.82	−0.1	---
	8	U.	EI	+1.64	+1.1	---
	14	Hd.	EI	+1.30	−0.1	---
	15	Hd.	EI	+1.28	−0.7	---
	16	U.	EI	+2.18	−0.4	---
	18	Hd.	EI	+1.30	+0.4	---
	20	Hd.	EI	+1.70	+0.1	---
	21	U.	EI	+1.12	+1.1	---
	29	*Hd.*	*WI*	*+1.04*	*−0.5*	---
	30	*Hd.*	*WI*	*+0.25*	*+0.2*	---
1910						
Jan.	*4*	*Hd.*	*WI*	*+1.38*	*−0.4*	---
	8	*U.*	*WI*	*+1.02*	*+0.2*	---
	9	*Hd.*	*WI*	*+0.81*	*+0.2*	---
	10	*T.*	*WI*	*+0.80*	*+0.1*	---
Mean			1909.95	+1.35	+0.04	---
Corr				−0.08	+0.08	---

39 H. Cephei s. p.

				h m s	° ′ ″	″ ″
				23 27 45.84	+86 48 39.81	39.81
1909					A	B
May	5	Hd.–T.	EI	+1.69	−0.4	−1.0
	6	U.–Pk.	EI	+0.39	+0.5	0.0
	9	U.–Pk.	EI	+2.19	+0.3	−0.9
	11	U.–Pk.	EI	+1.29	+0.7	+0.3
	12	Hd.–T.	EI	+0.84	−0.5	+0.2
	14	U.–Pk.	WI	+1.89	+0.3	−0.7
	15	Hd.–T.	WI	+0.58	−0.7	−0.2
	16	U.–Pk.	WI	+1.41	+0.4	−1.2
	17	Hd.–T.	WI	+1.72	+0.2	−0.3
	18	U.–Pk.	WI	+1.27	−1.7	−0.7
	23	Hd.–T.	WI	+0.55	+1.0	+0.2
Dec.	5	U.	EI	----	−0.1	---
	16	U.	EI	+1.42	−0.4	---
	18	Hd.	EI	+1.70	−0.8	---
	20	Hd.	EI	+1.27	−1.0	---
	23	Hd.	EI	+1.50	−0.7	---
1910						
Jan.	8	U.	WI	+0.64	+1.4	---
	9	Hd.	WI	+1.91	+0.5	---
	10	T.	WI	+0.95	+0.6	---
	16	U.	WI	+0.59	+1.0	---
Mean			1909.63–1909.65	+1.25	+0.03	−0.39
			1909.36			
Corr				−0.08	−0.09	−0.09

β Sculptoris

				h m s	° ′ ″	″
				23 28 8.878	−38 18 58.42	---
1909					A	B
Sept.	25	Hd.	WI	+0.06	+2.8	---
	28	Hd.	WI	+0.13	−0.8	---
	29	U.	WI	+0.07	---	---
	30	T.	WI	+0.08	+3.0	---
Oct.	1	Hd.	WI	+0.15	−0.2	---
	2	T.	WI	+0.01	−0.5	---
	4	Hd.	EI	+0.08	+2.3	---
	5	T.	EI	+0.16	+0.4	---
	6	U.	EI	+0.09	+1.2	---
	7	Hd.	EI	+0.05	+0.9	---
	8	T.	EI	+0.06	+0.2	---
	9	U.	EI	+0.03	+1.5	---
	13	Hd.	EI	+0.11	+2.9	---
	16	T.	EI	+0.15	+2.1	---
	19	Hd.	EI	+0.10	+0.5	---
	22	T.	WI	+0.10	+1.4	---
Mean			1909.76–1909.77	+0.089	+1.18	---
Corr				−0.081	−0.08	---

ι Piscium

				h m s	° ′ ″	″
				23 35 19.231	+5 8 18.39	---
1909					A	B
Sept.	24	U.	WI	+0.02	−0.4	---
	25	Hd.	WI	+0.06	+0.5	---
	28	Hd.	WI	+0.05	+0.4	---
	29	U.	WI	+0.02	0.0	---
	30	T.	WI	+0.10	0.0	---
Oct.	1	Hd.	WI	+0.07	+0.4	---
	2	T.	WI	+0.08	+0.7	---
	4	Hd.	EI	+0.06	−0.1	---
	5	T.	EI	+0.05	+0.6	---
	6	U.	EI	+0.06	+0.7	---
	7	Hd.	EI	+0.04	+0.4	---
	8	T.	EI	0.00	+0.9	---
	9	U.	EI	+0.03	+1.0	---
	12	U.	EI	+0.02	+0.1	---
	13	Hd.	EI	+0.02	+1.1	---
	16	T.	EI	+0.05	+0.9	---
	17	Hd.	EI	+0.05	+0.4	---
	19	Hd.	EI	+0.08	−0.1	---
	20	T.	WI	+0.08	+0.1	---
	22	T.	WI	+0.05	+0.8	---
Dec.	5	U.	EI	+0.03	−0.1	---
	6	Hd.	EI	+0.06	+0.3	---

			s	″ A	″ B	
1909						
Dec. 8	U.	EI	+0.02	+0.2	---	
14	Hd.	EI	+0.08	+0.9	---	
15	Hd.	EI	+0.04	+0.2	---	
16	U.	EI	+0.02	+0.5	---	
18	Hd.	EI	+0.05	+0.1	---	
20	Hd.	EI	+0.06	+0.3	---	
21	U.	EI	+0.04	+1.3	---	
30	*Hd.*	*WI*	*+0.01*	*−0.7*	---	
1910						
Jan. 4	*Hd.*	*WI*	*+0.06*	*−0.5*	---	
7	*T.*	*WI*	*+0.09*	*+0.1*	---	
8	*U.*	*WI*	*−0.02*	*+0.4*	---	
9	*Hd.*	*WI*	*+0.05*	*−0.3*	---	
10	*T.*	*WI*	*+0.03*	*+1.0*	---	
Mean---------- 1909.82			+0.048	+0.42	---	
Corr----------			−0.081	+0.03	---	

γ Cephei s. p.

h m s 23 35 38.805 ° ′ ″ +77 7 48.09, ″ A 48.09 ″ B

1909						
May 5	Hd.–T.	EI	−0.08	−0.9	−1.2	
6	U.–Pk.	EI	+0.12	---	−0.7	
9	U.–Pk.	EI	+0.03	+0.7	−0.4	
11	U.–Pk.	EI	−0.03	+0.8	+0.3	
12	Hd.–T.	EI	−0.08	+0.5	−0.5	
14	U.–Pk.	WI	−0.07	−0.4	+0.7	
15	Hd.–T.	WI	−0.25	+0.4	+0.3	
16	U.–Pk.	WI	+0.01	+0.9	+0.1	
17	Hd.–T.	WI	+0.03	+0.5	−0.3	
18	U.–Pk.	WI	+0.19	+0.2	−0.7	
23	Hd.–T.	WI	−0.02	+1.1	+0.2	
Mean 1909.36–1909.37			−0.014	+0.38	−0.20	
1909.36						
Corr----------			−0.081	−0.11	−0.11	

i¹ Aquarii

h m s 23 39 32.094 ° ′ ″ −18 46 35.65 ″ A --- ″ B ---

1909						
Sept. 24	U.	WI	+0.05	−0.2	---	
25	Hd.	WI	+0.06	+0.3	---	
28	Hd.	WI	+0.06	+1.6	---	
29	U.	WI	+0.06	+0.1	---	
30	T.	WI	+0.05	+0.9	---	
Oct. 1	Hd.	WI	+0.09	+1.6	---	
2	T.	WI	0.00	+0.3	---	
4	Hd.	EI	+0.10	+0.4	---	
5	T.	EI	+0.05	---	---	
6	U.	EI	+0.06	+0.3	---	
7	Hd.	EI	+0.06	+1.6	---	
8	T.	EI	+0.02	+0.6	---	
9	U.	EI	0.00	+1.4	---	
12	U.	EI	+0.01	+1.6	---	
13	Hd.	EI	+0.02	+1.7	---	
16	T.	EI	+0.06	+1.4	---	
19	Hd.	EI	+0.03	0.0	---	
20	T.	WI	+0.04	+0.8	---	
22	T.	WI	+0.01	+0.9	---	
30	Hd.–T.	WI	----	−0.3	---	R.
30	Hd.–T.	WI	----	−0.6	---	
31	Hd.–T.	WI	----	−1.1	---	R.
31	Hd.–T.	WI	----	−0.3	---	
Nov. 5	Hd.–T.	WI	----	+1.2	---	R.
5	Hd.–T.	WI	----	+0.4	---	
11	Hd.–U.	WI	----	−0.7	---	R.
11	Hd.–U.	WI	----	−0.4	---	
12	Hd.–T.	WI	----	−0.9	---	R.
12	Hd.–T.	WI	----	+0.1	---	
13	Hd.–T.	EI	----	+0.1	---	R.
13	Hd.–T.	EI	----	+0.2	---	
19	Hd.–T.	EI	----	−1.6	---	R.
19	Hd.–T.	EI	----	+0.2	---	
20	Hd.–T.	EI	----	−1.0	---	R.
20	Hd.–T.	EI	----	+0.7	---	
22	Hd.–T.	EI	----	+0.3	---	R.
22	Hd.–T.	EI	----	−0.6	---	

			s	″ A	″ B	
1909						
Nov. 27	Hd.–T.	EI	----	−0.2	---	R.
27	Hd.–T.	EI	----	−0.4	---	
Dec. 5	U.	EI	+0.07	+1.3	---	
6	Hd.	EI	+0.04	+0.1	---	
8	U.	EI	+0.01	+1.1	---	
14	Hd.	EI	+0.06	+1.6	---	
15	Hd.	EI	+0.04	+1.3	---	
16	U.	EI	+0.08	0.0	---	
20	Hd.	EI	+0.04	+0.6	---	
21	U.	EI	+0.04	+0.3	---	
30	Hd.	WI	+0.06	−0.3	---	
1910						
Jan. 4	*Hd.*	*WI*	*+0.01*	*−0.1*	---	
Mean 1909.83–1909.84			+0.045	+0.56	---	
Corr----------			−0.081	0.00	---	

δ Sculptoris

h m s 23 44 14.343 ° ′ ″ −28 37 41.93 ″ A --- ″ B ---

1909					
Sept. 24	U.	WI	+0.08	+1.7	---
25	Hd.	WI	+0.12	+1.6	---
28	Hd.	WI	+0.17	+0.9	---
29	U.	WI	+0.11	+2.0	---
30	T.	WI	+0.15	+2.2	---
Oct. 1	Hd.	WI	+0.18	+0.7	---
2	T.	WI	----	+0.5	---
4	Hd.	EI	+0.20	+1.7	---
5	T.	EI	+0.18	+1.8	---
6	U.	EI	+0.15	+1.3	---
7	Hd.	EI	+0.10	+2.0	---
8	T.	EI	+0.11	+2.0	---
9	U.	EI	+0.14	+1.5	---
12	U.	EI	+0.12	+0.9	---
13	Hd.	EI	+0.10	+3.1	---
16	T.	EI	+0.06	+1.4	---
19	Hd.	EI	+0.13	+3.4	---
20	T.	WI	+0.12	+1.5	---
22	T.	WI	+0.15	+1.5	---
Dec. 5	U.	EI	+0.10	+1.6	---
6	Hd.	EI	+0.19	+2.0	---
8	U.	EI	+0.10	+2.6	---
15	Hd.	EI	+0.15	+1.7	---
16	U.	EI	+0.19	+1.9	---
20	Hd.	EI	+0.14	+1.9	---
21	U.	EI	+0.11	+1.5	---
30	Hd.	WI	+0.11	+1.0	---
1910					
Jan. 4	*Hd.*	*WI*	*+0.15*	*+0.2*	---
Mean 1909.82–1909.82			+0.133	+1.70	---
Corr----------			−0.081	−0.02	---

ρ Cassiopeiæ

h m s 23 49 52.842 ° ′ ″ +56 59 55.28, ″ A 55.28 ″ B

1910						
Sept. 7	T.	EI	+0.22	+1.2	+1.0	
9	Hd.	EI	+0.14	−0.3	−0.6	
12	T.	EI	+0.10	−1.2	−0.8	R.
15	Hd.	EI	+0.19	+0.4	+0.1	R.
16	T.	EI	+0.05	+0.7	+1.4	R.
17	Hd.	EI	−0.09	−0.4	+0.1	R.
20	Hd.	EI	0.00	−0.1	+0.3	
22	Hd.	WI	+0.12	−0.5	0.0	
25	T.	WI	+0.08	+0.2	+0.5	R.
26	Hd.	WI	+0.09	+0.1	−0.2	R.
27	T.	WI	+0.12	−0.4	−0.7	
28	Hd.	WI	+0.01	+0.4	+0.5	
Oct. 1	T.	WI	+0.03	+0.3	−0.3	
2	Hd.	WI	−0.07	−0.4	−0.4	R.
3	T.	WI	----	−1.1	−1.1	R.
4	T.	WI	−0.04	−0.1	−0.3	R.
11	Hd.	EII	+0.18	+0.2	0.0	R.
12	T.	EII	+0.12	+1.1	+1.5	
14	Hd.	EII	+0.04	+0.7	−0.2	R.
15	T.	EII	+0.10	+0.6	+1.2	R.

1910				s	″ A	″ B	
Oct.	16	Hd.	EII	+0.10	−0.5	−0.5	
	17	T.	EII	+0.11	−0.3	0.0	R.
	18	Hd.	EII	−0.01	+1.0	+1.1	
	20	T.	EII	+0.08	−0.3	−0.4	
	24	Hd.	WII	+0.05	+0.6	+0.5	R.
	25	T.	WII	−0.06	+0.1	−0.1	R.
	26	Hd.	WII	+0.02	−0.5	−0.9	R.
	31	Hd.	WII	+0.17	+0.6	+0.8	
Nov.	1	Hd.	WII	−0.04	−0.1	+0.8	
	6	T.	WII	+0.07	−1.0	−0.6	
	8	T.	WII	+0.10	−0.2	−0.4	
	20	T.	WII	+0.08	+0.4	+0.3	R.
Mean		1910.77		+0.082	+0.08	+0.17	
Corr				−0.081	+0.06	+0.06	

Groombridge 4163

h m s 23 50 26.315 ° ′ ″ +73 54 34.05 ″ ---

1909					″ A	″ B	
Oct.	30	Hd.–T.	WI	----	0.0	---	R.
	30	Hd.–T.	WI	----	+0.4	---	
	31	Hd.–T.	WI	----	+0.3	---	R.
	31	Hd.–T.	WI	----	+0.2	---	
Nov.	11	Hd.–U.	WI	----	−0.2	---	R.
	11	Hd.–U.	WI	----	+0.3	---	
	12	Hd.–T.	WI	----	−0.2	---	R.
	12	Hd.–T.	WI	----	+0.9	---	
	13	Hd.–T.	EI	----	−0.9	---	R.
	13	Hd.–T.	EI	----	+0.2	---	
	18	Hd.–T.	EI	----	−0.7	---	R.
	18	Hd.–T.	EI	----	+0.4	---	
	19	Hd.–T.	EI	----	−0.7	---	R.
	19	Hd.–T.	EI	----	+1.1	---	
	20	Hd.–T.	EI	----	−0.2	---	R.
	20	Hd.–T.	EI	----	+0.1	---	
	22	Hd.–T.	EI	----	−0.5	---	R.
	22	Hd.–T.	EI	----	+0.8	---	
	27	Hd.–T.	EI	----	−0.1	---	R.
	27	Hd.–T.	EI	----	−0.7	---	
Dec.	5	U.	EI	+0.03	−0.4	---	
	6	Hd.	EI	+0.26	−0.1	---	
	8	U.	EI	+0.17	−0.1	---	
	15	Hd.	EI	+0.29	0.0	---	
	16	U.	EI	+0.14	−0.3	---	
	18	Hd.	EI	+0.23	+1.3	---	
	20	Hd.	EI	+0.24	+0.4	---	
	21	U.	EI	+0.03	+0.4	---	
	30	Hd.	WI	+0.07	−0.1	---	
1910							
Jan.	*4*	*Hd.*	*WI*	*+0.09*	*0.0*	---	
Mean		1909.96–1909.91		+0.162	+0.25	---	
Corr				−0.081	+0.07	---	

Groombridge 4163 s. p.

h m s 23 50 26.316 ° ′ ″ +73 54 34.05, 34.05

1909				s	″ A	″ B	
May	5	Hd.–T.	EI	+0.17	---	−0.8	
	6	U.–Pk.	EI	+0.18	+1.6	0.0	
	9	U.–Pk.	EI	+0.09	+1.5	−0.2	
	11	U.–Pk.	EI	−0.03	+2.0	0.0	
	12	Hd.–T.	EI	+0.10	+0.6	+0.1	
	14	U.–Pk.	WI	+0.21	+0.2	+1.1	
	15	Hd.–T.	WI	+0.13	−0.9	+0.1	
	16	U.–Pk.	WI	+0.24	0.0	−0.8	
	17	Hd.–T.	WI	+0.16	+0.1	−0.9	
	18	U.–Pk.	WI	+0.33	+0.8	+1.0	
	23	Hd.–T.	WI	+0.11	+1.0	+1.1	
Dec.	16	U.	EI	+0.03	+0.7	---	
	18	Hd.	EI	+0.12	−1.6	---	
	20	Hd.	EI	+0.02	−0.9	---	
	23	Hd.	EI	+0.38	+0.1	---	

1910				s	″ A	″ B
Jan.	7	T.	WI	+0.12	+0.7	---
	8	U.	WI	−0.01	−0.5	---
	9	Hd.	WI	+0.09	+0.6	---
	10	T.	WI	−0.01	+0.5	---
	16	U.	WI	−0.02	+0.4	---
Mean		1909.65–1909.67		+0.120	+0.36	+0.06
		1909.36				
Corr				−0.081	−0.13	−0.13

ω Piscium

h m s 23 54 41.339 ° ′ ″ +6 21 54.41 ″ ---

1909					″ A	″ B
Sept.	24	U.	WI	0.00	−1.2	---
	25	Hd.	WI	+0.03	+0.2	---
	28	Hd.	WI	+0.07	+0.9	---
	29	U.	WI	0.00	−0.8	---
	30	T.	WI	+0.04	0.0	---
Oct.	1	Hd.	WI	+0.04	+0.2	---
	2	T.	WI	+0.08	+0.5	---
	4	Hd.	EI	+0.05	−0.3	---
	5	T.	EI	+0.01	0.0	---
	6	U.	EI	0.00	+0.6	---
	7	Hd.	EI	0.00	−0.2	---
	8	T.	EI	+0.02	+1.0	---
	9	U.	EI	+0.04	+1.0	---
	12	U.	EI	−0.01	−0.2	---
	13	Hd.	EI	+0.07	+0.4	---
	16	T.	EI	−0.02	0.0	---
	19	Hd.	EI	−0.01	−0.2	---
	20	T.	WI	+0.02	−0.3	---
	22	T.	WI	+0.04	+0.2	---
Dec.	5	U.	EI	+0.04	−0.1	---
	6	Hd.	EI	+0.06	−0.8	---
	8	U.	EI	0.00	+0.2	---
	15	Hd.	EI	+0.09	−0.7	---
	16	U.	EI	+0.02	+0.1	---
	18	Hd.	EI	+0.03	+0.2	---
	20	Hd.	EI	+0.06	−0.7	---
	21	U.	EI	0.00	+0.5	---
	30	Hd.	WI	−0.02	−0.2	---
1910						
Jan.	*4*	*Hd.*	*WI*	*+0.03*	*−0.8*	---
	7	*T.*	*WI*	*−0.01*	*+0.5*	---
	8	*U.*	*WI*	*+0.03*	*−0.6*	---
	9	*Hd.*	*WI*	*+0.03*	*−0.4*	---
	10	*T.*	*WI*	*+0.05*	*+0.4*	---
	15	*T.*	*WI*	*+0.02*	---	---
	16	*U.*	*WI*	*−0.02*	*−0.6*	---
Mean		1909.83		+0.027	+0.01	---
Corr				−0.081	+0.03	---

30 Piscium

h m s 23 57 20.672 ° ′ ″ −6 30 51.25 ″ ---

1909					″ A	″ B
Sept.	25	Hd.	WI	+0.06	−0.3	---
	28	Hd.	WI	+0.07	−0.2	---
	29	U.	WI	+0.03	+0.1	---
	30	T.	WI	+0.09	+1.0	---
Oct.	1	Hd.	WI	+0.04	0.0	---
	2	T.	WI	+0.03	+0.9	---
	4	Hd.	EI	+0.05	−0.6	---
	5	T.	EI	0.00	+0.5	---
	7	Hd.	EI	+0.06	+0.8	---
	8	T.	EI	−0.01	+0.4	---
	9	U.	EI	+0.08	−0.2	---
	12	U.	EI	+0.03	+0.4	---
	13	Hd.	EI	+0.11	−0.2	---
	16	T.	EI	+0.02	−0.5	---
	19	Hd.	EI	+0.05	+0.5	---
	20	T.	WI	+0.02	−0.5	---
	22	T.	WI	+0.11	0.0	---
Mean		1909.77		+0.049	+0.12	---
Corr				−0.081	+0.02	

INDIVIDUAL RESULTS OF OBSERVATIONS OF STARS 1911-1918

B. D.+26° 4744

				h	m	s	°	′	″			
1912												
Aug. 3	R.	EII		0	0	23.277	+27	10	26.46	0	6.0	3
5	Fn.	EII				23.270			26.71	0	---	2
27	R.	WII				23.320			26.18	0	7.0	2½
Sept. 12	R.	WII				23.330			26.24	0	6.5	1
1913												
Nov. 21	R.	WI				23.349			25.68	0	6.0	3
22	Hd.	WI				23.333			26.33	0	6.5	2
25	R.	EI				23.247			25.30	0	5.5	2
Dec. 3	Hd.	EI				23.286			25.66	0	6.5	3
Mean		1913.27		0	0	23.302	+27	10	26.07			
Corr						−0.081			−0.24			

Groombridge 4223

				h	m	s	°	′	″			
1911												
Oct. 4	Fn.	EII		0	0	31.867	+44	43	41.90	0	6.5	3
11	Hd.	WII				31.907			43.14	0	6.0	2
12	R.	WII				31.966			43.00	0	7.5	1½
Nov. 7	R.	EII				31.861			42.83	0	6.5	2½
1914												
Nov. 11	An.	WI				31.896			42.44	0	6.5	2
13	Fn.	WI				31.882			42.98	0	7.5	3½
17	Wy.	EI				31.891			42.35	0	6.0	2
19	Hd.	EI				31.886			42.58	0	6.5	2
Mean		1913.33		0	0	31.894	+44	43	42.65			
Corr						−0.081			−0.28			

33 Piscium

				h	m	s	°	′	″			
				0	0	43.753	−	6	12 39.39			
1911												
Aug. 18	Fn.	EII				0.000			+0.44	0	5.0	2½
21	Fn.	EII				+0.008			+0.20	0	---	2
Sept. 6	R.	WII				+0.015			−0.67	I	4.4	1
20	R.	WII				+0.020			+0.34	I	4.4	1½
1915												
Aug. 9	Fn.	EI				+0.026			+0.25	0	5.0	3
10	An.	EI				+0.053			−0.26	0	---	2½
17	An.	WI				−0.014			+1.24	0	---	3
18	Wy.	WI				+0.057			−0.62	I	4.9	3
Mean		1913.64				+0.021			+0.12			
Corr						−0.081			−0.16			

B. D.+39° 5219

				h	m	s	°	′	″			
1912												
Oct. 5	R.	EII		0	1	25.987	+39	55	3.66	0	6.5	1
9	Hd.	WII				26.023			3.14	0	7.0	2
14	Fn.	WII				25.978			3.13	0	6.7	2
26	Fn.	EII				26.029			3.13	0	6.7	2
1913												
Dec. 4	Fn.	EI				25.948			3.12	0	---	2½
9	R.	EI				25.978			2.45	0	6.0	2
15	Fn.	WI				26.036			3.02	0	7.0	2
18	Fn.	WI				26.040			3.48	0	6.5	2
Mean		1913.37		0	1	26.002	+39	55	3.14			
Corr						−0.081			−0.27			

Radcliffe 1890, 1

				h	m	s	°	′	″			
1912												
Oct. 1	R.	EII		0	2	13.931	−23	36	27.59	0	---	4
2	R.	EII				13.887			26.91	0	6.0	2
7	R.	WII				13.861			26.80	0	6.5	3
15	R.	WII				13.901			27.15	0	6.5	2½
1914												
Sept. 26	An.	EI				13.953			27.87	0	7.0	3½
28	Hd.	WI				13.893			27.10	0	6.5	3
29	Wy.	WI				13.933			27.28	0	6.5	3
Oct. 19	Hd.	EI				13.906			26.95	0	6.5	2½
21	An.	EI				13.957			26.75	0	7.0	3½
Mean		1913.88		0	2	13.914	−23	36	27.16			
Corr						−0.081			−0.04			

Bradley 3213

				h	m	s	°	′	″			
1911												
Aug. 22	R.	EII		0	3	7.497	−	3	2 59.50	0	6.5	1
Sept. 13	R.	WII				7.482			58.68	0	6.5	1½
18	Fn.	WII				7.491			59.46	0	6.6	2½
30	R.	EII				7.520			58.48	0	5.5	1
1914												
Nov. 9	Hd.	WI				7.519			59.57	0	6.5	3
10	Fn.	WI				7.521			60.68	0	7.0	2½
19	Hd.	EI				7.474			59.03	0	6.5	2
21	Fn.	EI				7.502			59.42	0	7.0	2½
23	Fn.	EI				7.518			59.79	0	6.5	2½
Mean		1913.47		0	3	7.503	−	3	2 59.40			
Corr						−0.081			−0.17			

α Andromedæ

				h	m	s	°	′	″			
				0	3	44.023	+28	35	36.04			
1911						s		″	″			
May 18	*Hd.*	*WII*				*+0.042*		*+0.24*	*+0.23*	*0*	---	--
19	*T.*	*WII*				*+0.027*		----	----	*0*	---	--
22	*Hd.*	*EII*				*+0.150*		*+0.05*	*+0.03*	*0*	---	--
24	*Fn.*	*EII*				*−0.032*		*+0.19*	*+0.18*	*0*	---	--
25	*Hd.*	*EII*				*+0.077*		*+0.58*	*+0.56*	*0*	---	--
26	*T.*	*EII*				*+0.007*		*−0.98*	*−0.98*	*0*	---	--
28	*Fn.*	*WII*				*+0.074*		*−0.55*	*−0.59*	*0*	---	--
31	*Fn.*	*WII*				*−0.002*		*+0.49*	*+0.45*	*0*	---	--
June 14	*Fn.*	*EII*				*+0.032*		*+0.78*	*+0.76*	*0*	---	--
21	*Fn.*	*EII*				*+0.060*		*+1.37*	*+1.35*	*0*	---	--
Oct. 13	Hd.	WII				+0.044			+0.04	II	2.6	2
16	Fn.	WII				+0.035			----	I	1.9	2½
18	Fn.	WII				+0.022			----	--	---	3
23	R.	WII				+0.008			−0.17	II	2.6	3
24	Fn.	WII				−0.029			----	II	2.3	2
26	Fn.	WII				+0.010			−0.34	I	2.3	2½
Nov. 2	Fn.	EII				−0.014			−0.01	II	2.4	2
3	Hd.	EII				−0.005			----	II	2.3	1
10	Hd.	EII				−0.023			----	II	2.3	2½
11	R.	EII				+0.013			----	II	2.6	2
13	Fn.	EII				+0.061			----	I	2.7	2
15	Fn.	EII				−0.002			----	II	2.4	2½
16	R.	EII				+0.046			----	II	2.6	1
19	Fn.	EII				+0.028			----	II	2.5	2
21	Fn.	EII				+0.025			----	I	2.0	2
25	Hd.	WII				+0.038			−0.35	II	2.1	2
Dec. 4	R.	WII				+0.008			−0.01	II	2.6	1½
5	R.	WII				+0.008			+0.19	II	2.6	1
19	R.	EII				+0.008			----	--	---	1½
28	Hd.	EII				−0.002			−0.77	II	2.1	3
29	Hd.	EII				-----			+0.16	II	1.6	3
1912												
Jan. 9	*Fn.*	*EII*				*−0.002*		*+0.05*	*+0.07*	*I*	---	*3½*
10	*Fn.*	*EII*				*−0.005*		*+0.01*	*+0.03*	*0*	---	--
Apr. 22	*Hd.*	*WII*				*+0.044*		*−0.31*	*−0.26*	*0*	---	*3½*
24	*Fn.*	*EII*				*+0.049*		*−0.45*	*−0.40*	*0*	---	*3½*
May 2	*Hd.*	*EII*				*+0.116*		*+0.14*	*+0.16*	*0*	---	*3*
8	*Fn.*	*WII*				*−0.033*		*+1.06*	*+1.06*	*0*	---	--

				s	"	"				
1912										
May	*9*	*Hd.*	*WII*	*+0.024*	*+0.12*	*+0.12*	*0*	---	--	
	10	*R.*	*WII*	-----	*−0.92*	*−0.94*	*0*	---	*5*	
	13	*R.*	*WII*	-----	*−1.17*	*−1.20*	*0*	---	*5*	
	16	*R.*	*EII*	-----	*+0.41*	*+0.36*	*0*	---	--	
	17	*Hd.*	*EII*	*−0.002*	*+0.17*	*+0.19*	*0*	---	*4*	
	20	*Hd.*	*WII*	*+0.061*	*−0.51*	*−0.55*	*0*	---	*3½*	
	24	*R.*	*EII*	*+0.004*	*+0.04*	*+0.04*	*0*	---	*3*	
	26	*Fn.*	*EII*	*+0.010*	*−0.01*	*−0.11*	*0*	---	*3½*	
	27	*Hd.*	*WII*	*+0.016*	*−0.06*	*−0.11*	*0*	---	*3*	
	30	*Hd.*	*WII*	*+0.094*	*−0.28*	*−0.31*	*I*	---	*3*	
July	30	R.	WII	+0.043		−0.07	II	2.6	1	
Aug.	6	R.	EII	+0.021		−0.37	II	---	1	
Oct.	4	R.	EII	−0.026		+0.44	II	2.1	1	
	10	R.	WII	+0.042		+1.19	II	2.6	1½	
	29	R.	EII	−0.007		----	II	2.6	4	
	30	Fn.	EII	−0.001		+0.38	II	2.0	2	
	31	Hd.	EII	+0.015		+0.30	II	2.6	3	
Nov.	1	Fn.	WII	−0.001		−1.15	I	---	4	
	4	Fn.	WII	−0.004		−0.56	0	---	1½	
	5	Fn.	WII	−0.014		−0.26	I	3.2	2	
	6	R.	WII	−0.007		+0.03	I	2.4	3	
	9	Fn.	WII	−0.055		+0.02	II	2.1	2½	
	10	R.	EII	−0.008		−0.03	II	2.6	3	
	16	Hd.	EII	+0.026		+0.35	II	2.1	2	
	18	Fn.	EII	+0.001		+0.75	II	---	1½	
	19	R.	EII	+0.012		−0.11	II	2.6	3	
	20	Fn.	EII	+0.002		+0.09	II	1.8	2	
	22	Fn.	EII	+0.006		−0.60	I	1.4	2	
	25	Fn.	WII	+0.020		−0.23	II	1.8	2	
	26	Hd.	WII	−0.018		−0.10	II	2.1	2	
	29	Fn.	WII	−0.026		−0.10	II	2.4	2½	
1913										
Apr.	*16*	*R.*	*WII*	*+0.011*	*−1.01*	*−0.99*	*0*	---	*3*	
	17	*Fn.*	*WII*	*−0.043*	*−0.02*	*−0.01*	*0*	---	*3½*	
	20	*Hd.*	*EII*	*+0.009*	----	----	*0*	---	--	
	29	*R.*	*EII*	*+0.049*	*+0.18*	*+0.19*	*0*	---	*3*	
	30	*Hd.*	*EII*	*+0.078*	*−0.15*	*−0.13*	*0*	---	*2*	
May	*1*	*Fn.*	*EII*	*+0.058*	*−0.25*	*−0.26*	*0*	---	*3*	
	2	*R.*	*EII*	*+0.020*	*+0.10*	*+0.10*	*0*	---	--	
	7	*Hd.*	*EII*	*+0.064*	*+0.06*	*+0.08*	*0*	---	*3*	
	11	*Hd.*	*WII*	*+0.059*	----	----	*0*	---	*3*	
	18	*Hd.*	*WII*	*−0.026*	*−0.75*	*−0.76*	*0*	---	*2*	
	25	*Hd.*	*WII*	-----	*−0.04*	*−0.04*	*0*	---	*3*	
	28	*Hd.*	*WII*	*+0.034*	*+0.37*	*+0.35*	*0*	---	*2*	
June	*2*	*Fn.*	*WII*	-----	*+0.01*	*−0.02*	*0*	---	*3*	
	5	*Fn.*	*WII*	*−0.070*	*+0.18*	*+0.13*	*0*	---	*3*	
Nov.	3	Fn.	EI	−0.005		−0.18	I	2.1	3	
	4	R.	EI	+0.005		−0.53	II	1.6	2½	
	5	Hd.	EI	+0.007		+0.34	II	2.1	2	
	6	Fn.	EI	+0.002		−0.27	II	2.1	2	
	7	R.	EI	−0.005		−0.25	II	1.6	2½	
	11	R.	WI	+0.023		+0.72	II	1.6	2	
	12	Hd.	WI	−0.007		+0.10	II	---	2½	
	13	Fn.	WI	+0.025		+0.19	I	2.4	2	
	17	Fn.	WI	+0.021		+0.75	I	1.9	2	
	19	Hd.	WI	+0.003		+0.05	I	---	2	
Dec.	6	Hd.	EI	−0.002		−0.21	II	1.6	3	
	12	R.	EI	−0.006		−0.75	II	2.1	2	
	13	Hd.	EI	+0.014		−0.03	II	2.1	2	
	17	Hd.	WI	−0.011		−0.04	0	---	3	
	19	R.	WI	+0.020		+0.46	II	2.1	2	
1914										
Mar.	*23*	*Wy.*	*EI*	*−0.087*	*−1.49*	*−1.41*	*0*	---	*3*	
Apr.	*12*	*Fn.*	*EI*	*+0.091*	*+1.99*	*+1.94*	*0*	---	*4*	
	17	*Hd.*	*EI*	*+0.106*	*+0.09*	*+0.09*	*0*	---	*3*	
	27	*Hd.*	*EI*	*+0.046*	*−0.50*	*−0.45*	*0*	---	*3½*	
	30	*Hd.*	*WI*	-----	*+0.13*	*+0.15*	*0*	---	*3*	
May	*1*	*Fn.*	*WI*	*−0.035*	*−0.59*	*−0.57*	*0*	---	*3*	
	5	*Fn.*	*WI*	*+0.097*	----	----	*0*	---	*3½*	
	6	*Wy.*	*WI*	*−0.031*	*+0.25*	*+0.29*	*0*	---	*3*	
	8	*Fn.*	*WI*	*+0.003*	*−1.15*	*−1.15*	*0*	---	*3½*	
	10	*Hd.*	*WI*	*+0.058*	*+0.18*	*+0.17*	*0*	---	*3*	
	14	*Wy.*	*WI*	*+0.022*	*−0.03*	*−0.03*	*0*	---	*3*	
	15	*Fn.*	*WI*	*+0.058*	*+0.57*	*+0.59*	*0*	---	*3*	
	17	*Fn.*	*WI*	*+0.165*	----	----	*0*	---	*3½*	
	18	*Wy.*	*WI*	*+0.036*	*−0.60*	*−0.61*	*0*	---	*3*	
	19	*Hd.*	*WI*	*+0.041*	*−0.43*	*−0.43*	*0*	---	*3*	
	20	*Fn.*	*WI*	*+0.023*	*−0.26*	*−0.28*	*0*	---	*3½*	

				s	"	"				
1914										
May	*21*	*Wy.*	*WI*	-----	*−1.03*	*−1.06*	*0*	---	*3½*	
	22	*Hd.*	*EI*	*+0.016*	*−0.24*	*−0.26*	*0*	---	*2½*	
	25	*Wy.*	*EI*	*+0.037*	*−0.91*	*−0.93*	*0*	---	*3½*	
	26	*Hd.*	*EI*	-----	*−0.32*	*−0.35*	*0*	---	*3*	
Aug.	29	An.	WI	+0.019		+0.85	II	2.1	2	
Sept.	17	Fn.	EI	+0.015		−0.70	0	---	2	
Oct.	5	Wy.	WI	+0.009		0.00	II	2.6	2	
	9	Hd.	WI	+0.012		−0.15	II	2.6	2	
	10	An.	WI	+0.027		+0.39	II	3.1	2½	
	12	Hd.	WI	+0.008		0.00	II	2.6	2	
	23	Fn.	EI	+0.016		+0.63	I	1.9	2	
	28	An.	EI	-----		−0.58	II	3.1	3	
	30	Hd.	EI	−0.040		−0.42	II	2.6	2	
	31	An.	EI	+0.010		+0.53	II	3.6	2½	
Nov.	2	Fn.	WI	−0.027		+0.62	I	1.9	2	
	4	Hd.	WI	−0.019		+0.39	0	---	3½	
	5	Fn.	WI	+0.003		+0.90	I	---	2	
	6	Wy.	WI	+0.001		+0.19	II	2.1	2	
	7	Hd.	WI	+0.013		−0.36	I	2.9	2½	
	16	Hd.	EI	+0.014		----	I	2.9	3	
	20	Wy.	EI	+0.019		----	I	---	3	
	24	Hd.	EI	−0.009		+0.06	II	2.6	2	
	25	Wy.	EI	0.000		----	II	2.6	3	
	26	Wy.	EI	−0.032		----	I	---	3	
Dec.	16	An.	WI	−0.023		+0.66	II	2.1	2	
	17	Fn.	WI	+0.011		+0.36	II	2.6	2	
	18	Hd.	WI	+0.010		----	II	2.6	2	
	21	Fn.	WI	+0.007		----	I	---	3	
	23	Hd.	WI	+0.004		----	0	---	2½	
1915										
Mar.	*30*	*An.*	*EI*	*+0.053*	----	----	*0*	---	--	
Apr.	*7*	*Hd.*	*EI*	*−0.010*	*−0.18*	*−0.15*	*0*	---	*3*	
	13	*An.*	*WI*	*+0.001*	*+0.27*	*+0.31*	*0*	---	*4*	
	14	*Hd.*	*WI*	*+0.015*	*−0.16*	*−0.14*	*0*	---	*3½*	
	26	*Wy.*	*EI*	-----	*+1.19*	*+1.20*	*0*	---	*3½*	
	29	*Wy.*	*EI*	*+0.012*	*+0.02*	*+0.03*	*0*	---	*3½*	
	30	*Hd.*	*EI*	-----	*−0.57*	*−0.57*	*0*	---	*3*	
May	*5*	*Fn.*	*EI*	*+0.024*	*−0.61*	*−0.60*	*0*	---	*3½*	
	10	*Fn.*	*EI*	-----	*−0.70*	*−0.70*	*0*	---	*3½*	
	12	*Hd.*	*WI*	*+0.042*	*−0.36*	*−0.35*	*0*	---	*3*	
	14	*Wy.*	*WI*	*+0.016*	*−1.08*	*−1.06*	*0*	---	*3½*	
	17	*Wy.*	*EI*	-----	*+0.13*	*+0.13*	*0*	---	*3*	
	18	*Fn.*	*EI*	*+0.042*	*−0.34*	*−0.33*	*0*	---	*3*	
	24	*Fn.*	*WI*	*+0.006*	*−0.16*	*−0.18*	*0*	---	*3*	
	26	*Wy.*	*WI*	*+0.037*	*+0.20*	*+0.18*	*0*	---	*3½*	
Aug.	23	Wy.	WI	−0.013		----	II	2.1	2	
Sept.	7	Wy.	WI	+0.019		----	II	2.6	2	
	21	Wy.	EI	−0.004		----	II	1.6	3	
	24	Hd.	EI	+0.014		+0.01	II	2.6	3	
	27	Wy.	EI	−0.005		−0.51	I	---	3	
Oct.	6	Hd.	WI	−0.003		−0.13	0	---	2	
	9	Hd.	WI	−0.032		−0.10	II	2.1	3	
	11	Hd.	WI	−0.014		−0.10	II	1.6	2	
	25	Hd.	WI	−0.005		−0.14	II	2.6	2	
	28	Hd.	EI	+0.022		+0.37	II	2.6	2	
	29	Fn.	EI	+0.016		−0.69	I	2.9	3	
	30	Wy.	EI	+0.011		−0.06	II	2.6	3	
Nov.	1	Fn.	EI	−0.006		−0.21	I	2.4	3½	
	3	Hd.	EI	+0.004		−0.17	II	2.6	2	
	9	Hd.	WI	−0.003		−0.03	II	2.6	2	
	10	Fn.	WI	−0.032		+0.96	I	2.4	2½	
	13	Fn.	WI	−0.004		−0.42	0	---	3	
	15	Hd.	WI	−0.014		+0.13	II	2.1	2½	
	16	Fn.	WI	+0.008		−0.27	I	1.9	1½	
	17	Wy.	WI	−0.036		−0.11	II	2.1	2½	
	19	Fn.	EI	−0.014		−0.19	I	2.4	2½	
	22	Fn.	EI	−0.006		−0.35	I	2.9	2½	
	24	Hd.	EI	−0.005		−0.19	II	2.1	1	
	29	Hd.	EI	+0.019		+0.30	I	---	2	
	30	Fn.	EI	+0.027		+0.63	I	1.9	2	
Dec.	6	Fn.	WI	−0.029		−0.49	I	2.4	3	
	22	Hd.	WI	−0.024		----	II	2.6	2	
1916										
Jan.	3	Hd.	EI	+0.017		----	I	2.4	3	
June	*1*	*Hd.*	*EI*	*+0.012*	*−0.27*	*−0.31*	*0*	--	*3*	
Oct.	17	Fn.	WI	−0.011		+0.97	I	2.4	3	
	23	Wy.	WI	+0.024		−0.39	II	2.6	2½	

				s	"	"			
1916									
Oct.	24	Hd.	WI	+0.003		−0.47	II	2.1	3
	27	Hd.	EI	+0.033		−0.07	II	2.6	2
Nov.	2	Hd.	EI	−0.008		−0.19	I	---	3½
	7	Wy.	EI	+0.008		+0.55	I	2.9	3
	10	Fn.	EI	+0.028		+0.18	I	2.4	2
	20	Fn.	WI	+0.054		−0.54	I	2.9	2
	24	Fn.	WI	−0.002		+0.31	0	---	2½
	27	Wy.	WI	+0.035		−0.16	I	2.9	2
Dec.	1	Fn.	EI	+0.025		+0.35	0	---	3
	7	Fn.	EI	0.000		−0.43	I	2.9	2½
	8	Hd.	EI	+0.007		−0.31	II	2.6	2½
	12	Fn.	EI	−0.003		----	I	2.9	3
	14	Fn.	EI	−0.005		----	I	---	2½
	19	Hd.	WI	−0.004		+0.78	II	2.6	2
	26	Fn.	WI	+0.029		----	I	2.9	2
1917									
Jan.	*12*	*Fn.*	*EI*	*−0.026*	*−1.31*	*−1.29*	*0*	---	2½
	19	*Hd.*	*EI*	*+0.036*	*−0.74*	*−0.73*	*I*	---	*2*
Mar.	*6*	*Fn.*	*WI*	*+0.051*	*−0.02*	*+0.02*	*0*	---	3½
Apr.	*8*	*Hd.*	*WI*	*+0.002*	*−0.11*	*−0.05*	*0*	---	*3*
	15	*Fn.*	*WI*	-----	*−0.35*	*−0.34*	*0*	---	3½
	22	*Wy.*	*EI*	*0.000*	*−0.59*	*−0.56*	*0*	---	3½
	26	*Hd.*	*EI*	*−0.038*	*−0.98*	*−0.96*	*0*	---	3½
	29	*Hd.*	*EI*	*+0.086*	*−1.07*	*−1.06*	*0*	---	3½
May	*9*	*Fn.*	*WI*	*+0.067*	*−0.78*	*−0.78*	*0*	---	3½
	10	*Wy.*	*WI*	-----	*−0.09*	*−0.09*	*0*	---	3½
	14	*Hd.*	*WI*	*−0.001*	*−0.26*	*−0.26*	*0*	---	*3*
	17	*Hd.*	*WI*	*+0.027*	*−0.03*	*−0.05*	*0*	---	3½
Sept.	18	Wy.	EII	−0.012		−0.18	II	2.1	2
Oct.	15	Fn.	EII	+0.022		−0.18	I	2.4	3
	22	Hd.	EII	−0.009		−0.25	II	2.6	2
	25	Hd.	EII	−0.002		+0.45	II	2.6	2
	30	Wy.	EII	−0.036		----	II	---	3
Nov.	2	Fn.	EII	−0.006		−0.20	I	2.4	2
	6	Fn.	EII	0.000		----	I	2.4	3
	9	Fn.	WII	−0.018		----	I	2.4	2½
	12	Wy.	WII	−0.003		−0.24	I	3.4	2½
	20	Fn.	WII	−0.025		−0.24	I	3.4	2
Dec.	5	Hd.	WII	0.000		----	II	2.1	2
	6	Fn.	WII	−0.015		+0.14	I	2.4	1½
	10	Fn.	WII	−0.004		−0.12	I	2.4	1½
1918									
Jan.	*10*	*Fn.*	*EII*	*−0.030*	*−0.26*	*−0.25*	*0*	---	*3*
	19	*Wy.*	*WII*	*−0.006*	*+0.14*	*+0.16*	*I*	---	*3*
	21	*Fn.*	*WII*	*+0.008*	*−0.96*	*−0.93*	*0*	---	2½
Feb.	*15*	*Fn.*	*WII*	*−0.030*	*−2.12*	*−2.09*	*0*	---	3½
	18	*Fn.*	*EII*	*−0.002*	*−0.50*	*−0.47*	*0*	---	3½
	21	*Fn.*	*EII*	*+0.047*	*+0.19*	*+0.23*	*0*	---	3½
	27	*Hd.*	*EII*	*+0.091*	*−0.55*	*−0.53*	*0*	---	*3*
Mar.	*8*	*Wy.*	*EII*	*+0.103*	*+0.17*	*+0.25*	*0*	---	*4*
Apr.	*4*	*Fn.*	*EII*	*+0.049*	*−1.09*	*−1.04*	*0*	---	*3*
	15	*Wy.*	*EII*	*+0.017*	*−1.56*	*−1.53*	*0*	---	*4*
May	*5*	*Fn.*	*EII*	*+0.032*	*−0.51*	*−0.50*	*0*	---	3½
	7	*Fn.*	*EII*	*+0.029*	*0.00*	*+0.01*	*0*	---	3½
	8	*Fn.*	*EII*	*+0.073*	*−0.60*	*−0.59*	*0*	---	3½
	28	*Fn.*	*WII*	-----	*+0.63*	*+0.61*	*0*	---	3½
Mean		1914.74		+0.003		0.00			
		1914.82							
Corr				−0.081		−0.25			

β Cassiopeiæ

h	m	s	°	′	″
0	4	22.410	+58	39	11.53

1912									
Oct.	16	Fn.	WII	−0.124		−0.04	I	1.9	--
	27	R.	EII	−0.002		+0.14	II	2.1	2
	28	Fn.	EII	−0.094		+0.64	I	2.1	2
Nov.	2	R.	WII	−0.077		+0.11	II	2.6	1½
1914									
Aug.	31	Fn.	WI	−0.009		+0.52	I	1.9	2
Sept.	1	An.	WI	+0.015		+0.78	II	2.1	2
	5	Wy.	WI	−0.052		+0.61	II	2.1	2
	9	Fn.	EI	−0.005		−0.36	I	2.4	2
1914									
Sept.	10	An.	EI	−0.038		−0.25	II	3.6	1½
	15	An.	EI	+0.013		−0.11	II	2.1	2½
	19	Wy.	EI	+0.021		+0.03	II	2.1	2
Mean		1914.01		−0.032		+0.19			
Corr				−0.081		−0.32			

β Cassiopeiæ s. p.

h	m	s	°	′	″
0	4	------	+58	39	11.62

1911									
Dec.	18	R.	EII	------		−2.8	I	---	5
	27	Hd.	EII	------		−3.8	0	---	5
1912									
Jan.	7	Fn.	EII	------		+0.8	0	---	--
	9	Fn.	EII	------		[+4.0]	0	---	5
Dec.	15	Hd.	EII	------		−2.2	0	---	5
	19	R.	EII	------		−2.1	0	---	--
	22	R.	WII	------		−2.4	0	---	--
	30	Fn.	WII	------		−2.9	0	---	4½
1913									
Jan.	8	Hd.	WII	------		−1.1	I	---	4
Apr.	21	Hd.	EII	------		−5.3	0	---	5
	25	Fn.	EII	------		−0.5	0	---	4
May	1	Hd.	EII	------		−4.2	0	---	5
	3	R.	EII	------		+0.1	0	---	--
1914									
Jan.	5	Hd.	EI	------		+1.0	0	---	5
	27	R.	WI	------		−3.0	0	---	--
Apr.	10	Wy.	WI	------		−1.7	0	---	4½
	28	Hd.	EI	------		−1.0	0	---	5
May	2	Fn.	WI	------		−0.7	0	---	4½
	18	Fn.	WI	------		−0.6	0	---	3½
	21	Fn.	WI	------		−2.9	0	---	4
June	2	Fn.	EI	------		+1.0	0	---	--
Dec.	22	Fn.	WI	------		−0.3	0	---	5
Mean		1913.50		------		−1.65			
Corr				------		+1.15			

B. D. +16° 3

h	m	s	°	′	″
0	4	41.722	+17	2	10.68

1912									
Aug.	24	R.	WII				0	7.5	1
	27	R.	WII	41.728		10.32	0	7.0	2
Sept.	6	Hd.	EII	41.703		10.10	0	7.5	--
	9	Hd.	EII	41.654		10.53	0	7.2	2
1914									
Sept.	22	Wy.	EI	41.704		10.48	0	6.5	3
	25	Wy.	EI	41.697		10.08	0	7.0	3
	30	An.	WI	41.664		10.20	0	7.0	3
Oct.	1	Hd.	WI	41.675		10.58	0	7.0	3
	2	Wy.	WI	41.680		10.57	0	7.0	2½
Mean		1913.82	0	4	41.692	+17 2 10.39			
Corr					−0.081	−0.22			

22 Andromedæ

h	m	s	°	′	″
0	5	38.364	+45	34	17.18

1912									
Aug.	3	R.	EII	−0.089		+0.72	0	5.5	3
	10	R.	EII	−0.107		+0.27	0	5.5	1
	15	R.	WII	−0.054		+0.19	0	---	--
	20	R.	WII	−0.094		+0.49	0	5.5	1
1913									
Dec.	11	Fn.	EI	−0.128		−0.13	0	5.0	2
1914									
Aug.	20	Fn.	WI	−0.014		−0.66	0	5.5	2½
	22	An.	WI	−0.035		+0.89	I	5.4	2

			s	″			
1914							
Aug. 30	Wy.	WI	−0.073	+0.74	I	4.9	2½
Sept. 20	An.	EI	−0.099	+0.05	I	5.4	1½
21	Hd.	EI	−0.059	+0.32	I	4.9	3
Nov. 13	Fn.	WI	+0.023	----	0	5.5	3½
Dec. 18	Hd.	WI	−0.051	----	I	4.9	2
21	Fn.	WI	−0.090	----	0	---	3
1916							
Dec. 12	Fn.	EI	−0.100	----	0	5.0	3
1917							
Oct. 30	Wy.	EII	−0.087	----	0	---	3
Nov. 9	Fn.	WII	−0.087	----	0	5.0	2½
Dec. 5	Hd.	WII	−0.125	----	I	4.4	2
Mean	1914.89		−0.075	+0.29			
	1913.78						
Corr			−0.081	−0.28			

Oeltzen 46

			h	m	s	°	′	″			
1911											
Oct. 16	Fn.	WII	0	5	46.471	+56	39	53.00	0	7.2	2
18	Fn.	WII			46.286			53.09	0	6.8	2½
Nov. 7	R.	EII			46.375			53.93	0	6.5	2
10	Hd.	EII			46.384			53.15	0	6.5	2½
1915											
Aug. 12	Fn.	EI			46.361			52.98	0	7.0	2½
19	Fn.	WI			46.391			53.07	0	7.0	1½
23	Wy.	WI			46.349			53.85	0	6.5	2
Sept. 15	Hd.	EI			46.354			53.05	0	6.5	2
Mean	1913.74		0	5	46.371	+56	39	53.26			
Corr					−0.081			−0.31			

Weisse$_1$ 0 46

			h	m	s	°	′	″			
1911											
Sept. 11	Fn.	WII	0	6	6.326	−13	4	47.66	0	6.0	1½
20	R.	WII			6.343			47.24	0	6.0	2½
Nov. 11	R.	EII			6.356			48.07	0	5.5	2½
13	Fn.	EII			6.402			48.09	I	5.9	2
1915											
Aug. 25	Wy.	WI			6.390			47.97	0	7.0	3½
31	Wy.	WI			6.400			47.88	0	6.5	3
Sept. 16	Wy.	EI			6.403			47.67	0	6.5	3
21	Wy.	EI			6.384			46.58	0	6.0	3½
Mean	1913.74		0	6	6.376	−13	4	47.64			
Corr					−0.081			−0.12			

κ^2 Sculptoris

			h	m	s	°	′	″			
1912											
Sept. 10	R.	EII	0	7	0.393	−28	18	3.30	0	6.0	3½
12	R.	WII			0.355			4.50	0	5.5	2½
30	R.	EII			0.373			3.57	0	---	4
Oct. 7	R.	WII			0.398			3.54	0	5.5	3
1913											
Dec. 5	Fn.	EI			0.406			3.62	0	6.0	3½
9	R.	EI			0.419			4.18	0	6.0	4
15	Fn.	WI			0.380			4.55	0	6.0	3
18	Fn.	WI			0.429			3.70	0	6.0	3½
Mean	1913.34		0	7	0.394	−28	18	3.87			
Corr					−0.081			0.00			

Groombridge 7

			h	m	s	°	′	″			
1912											
Oct. 9	Hd.	WII	0	7	2.58	+65	37	33.31	0	7.5	2½
15	R.	WII			2.65			32.99	0	7.0	1½
26	Fn.	EII			2.54			32.98	0	7.0	2
29	R.	EII			2.60			32.99	0	7.0	4
1913											
Nov. 21	R.	WI			2.65			32.46	0	7.5	3
22	Hd.	WI			2.62			32.66	0	7.0	2
25	R.	EI			2.50			32.59	0	7.0	2
Dec. 3	Hd.	EI			2.54			32.80	0	7.5	2
Mean	1913.35		0	7	2.585	+65	37	32.85			
Corr					−0.081			−0.33			

θ Sculptoris

			h	m	s	°	′	″			
1911											
Oct. 24	Fn.	WII	0	7	9.762	−35	38	12.79	0	5.7	3½
25	Hd.	WII			9.726			14.29	0	5.5	3
Nov. 15	Fn.	EII			9.630			13.18	0	---	5
16	R.	EII			9.720			11.17	0	5.5	3½
1915											
Sept. 7	Wy.	WI			9.742			11.83	0	---	3
8	Hd.	WI			9.745			12.66	0	6.0	3
13	Hd.	EI			9.814			12.58	0	6.0	3½
14	Wy.	EI			9.756			12.69	0	6.5	3½
Mean	1913.77		0	7	9.737	−35	38	12.65			
Corr					−0.081			+0.15			

γ Pegasi

			h	m	s	°	′	″			
			0	8	35.990	+14	40	59.65			
1911					s	″		″			
May 25	*Hd.*	*EII*			*+0.097*	*−0.07*		*−0.11*	*0*	---	--
26	*T.*	*EII*			*+0.060*	*+0.15*		*+0.15*	*0*	---	--
31	*Fn.*	*WII*			-----	*+1.93*		*+1.84*	*0*	---	--
June 21	*Fn.*	*EII*			*−0.007*	*+0.35*		*+0.31*	*0*	---	--
Oct. 13	Hd.	WII			+0.045			+0.51	I	3.4	2
23	R.	WII			+0.085			+0.43	I	3.4	2½
26	Fn.	WII			−0.017			−0.29	I	2.7	2
Nov. 18	R.	EII			−0.005			----	0–I	---	--
25	Hd.	WII			+0.006			+0.09	I	2.9	2
Dec. 1	R.	WII			+0.040			+0.25	I	2.9	3
4	R.	WII			+0.022			----	0	3.0	--
5	R.	WII			+0.004			−0.54	II	2.6	1
19	R.	EII			−0.002			+0.37	II	2.6	1½
28	Hd.	EII			+0.018			−0.61	II	2.6	3
1912											
Jan. 9	*Fn.*	*EII*			*+0.039*	----		----	*0*	---	*4*
10	*Fn.*	*EII*			*+0.027*	*+0.23*		*+0.28*	*0*	---	--
Apr. 22	*Hd.*	*WII*			*−0.010*	*−0.53*		*−0.41*	*0*	---	*3½*
May 8	*Fn.*	*WII*			*+0.072*	*−1.41*		*−1.42*	*0*	---	*3½*
9	*Hd.*	*WII*			*+0.044*	*+0.12*		*+0.12*	*0*	---	*5*
13	*R.*	*WII*			-----	*−1.27*		*−1.36*	*0*	---	--
17	*Hd.*	*EII*			*+0.041*	*−0.50*		*−0.51*	*0*	---	*4*
27	*Hd.*	*WII*			*+0.034*	*+0.03*		*−0.08*	*0*	---	*3*
30	*Hd.*	*WII*			*+0.061*	*−0.46*		*−0.53*	*0*	---	*3*
31	*R.*	*WII*			*+0.042*	*+0.24*		*+0.04*	*0*	---	*5*
Sept. 17	R.	WII			+0.058			−0.35	II	2.6	1½
Oct. 4	R.	EII			+0.060			−0.37	--	---	1
10	R.	WII			+0.020			−0.20	I	2.1	2½
31	Hd.	EII			+0.029			+0.19	I	1.9	3
Nov. 5	Fn.	WII			+0.024			+0.49	I	3.8	2
6	R.	WII			+0.055			−0.35	I	3.4	2½
9	Fn.	WII			+0.015			+0.10	I	---	2½
10	R.	EII			+0.037			+0.17	I	3.4	3
16	Hd.	EII			+0.036			+0.06	II	2.6	-
18	Fn.	EII			+0.047			+0.15	I	---	1½
19	R.	EII			+0.033			+0.64	I	2.9	3
20	Fn.	EII			−0.013			+0.17	I	2.6	2
22	Fn.	EII			+0.022			−0.62	I	1.7	2½
25	Fn.	WII			+0.054			−0.20	I	2.6	2
26	Hd.	WII			+0.022			+0.30	II	2.6	2
29	Fn.	WII			+0.020			+0.09	I	2.5	2½
1913											
May 1	*Fn.*	*EII*			*+0.047*	*+0.04*		*+0.02*	*0*	---	*3*
2	*R.*	*EII*			*−0.017*	*−0.28*		*−0.29*	*0*	---	--
18	*Hd.*	*WII*			*−0.005*	*−0.12*		*−0.14*	*0*	---	*2*
28	*Hd.*	*WII*			*+0.073*	*+0.30*		*+0.25*	*0*	---	*3*

				s	"	"			
1913									
June	*2*	*Fn.*	*WII*	-----	*+0.14*	*+0.05*	*0*	---	*3*
Nov.	3	Fn.	EI	−0.006		−0.02	I	2.9	3
	4	R.	EI	+0.015		−0.38	II	2.6	3
	5	Hd.	EI	+0.005		+0.06	II	2.6	2
	6	Fn.	EI	+0.026		−0.29	I	2.4	2
	7	R.	EI	−0.010		−0.58	II	2.6	2½
	10	Fn.	WI	+0.015		+0.50	I	---	3½
	11	R.	WI	+0.040		−0.07	II	2.6	3
	12	Hd.	WI	+0.051		+0.07	II	3.1	3
	13	Fn.	WI	+0.015		−0.32	0	----	2½
	17	Fn.	WI	+0.023		+0.66	I	2.9	2
	19	Hd.	WI	+0.040		+0.45	0	---	3
	20	Fn.	WI	+0.043		+0.30	0	---	3½
Dec.	6	Hd.	EI	+0.007		+0.21	I	3.9	2
	12	R.	EI	−0.005		−1.01	I	2.9	3½
	13	Hd.	EI	+0.003		+0.28	II	2.6	2
	16	R.	WI	+0.028		−0.41	I	---	3
	17	Hd.	WI	+0.027		----	0	---	3
	19	R.	WI	+0.035		----	II	2.6	2
1914									
May	*1*	*Fn.*	*WI*	*+0.024*	*−0.05*	*−0.02*	*0*	---	*3*
	6	*Wy.*	*WI*	*+0.080*	*−0.11*	*−0.02*	*0*	---	*3½*
	10	*Hd.*	*WI*	*+0.113*	*−0.89*	*−0.91*	*0*	---	*3½*
	14	*Wy.*	*WI*	*+0.078*	*+1.02*	*+1.02*	*0*	---	*3*
	22	*Hd.*	*EI*	*+0.044*	*+0.42*	*+0.39*	*0*	---	*2½*
	26	*Hd.*	*EI*	-----	*−0.61*	*−0.77*	*0*	---	*3*
June	*2*	*Wy*	*EI*	*+0.019*	*+0.07*	*−0.02*	*0*	---	*3½*
Aug.	29	An.	WI	+0.084		+1.22	I	2.9	2½
Sept.	17	Fn.	EI	−0.001		−0.13	I	2.4	2
	28	Hd.	WI	+0.004		+0.54	I	2.9	2
	29	Wy.	WI	+0.031		+0.18	I	2.9	3
Oct.	5	Wy.	WI	+0.026		+0.24	II	3.1	2
	9	Hd.	WI	+0.025		+0.28	II	3.1	2
	10	An.	WI	−0.009		+0.51	II	3.6	2½
	12	Hd.	WI	+0.053		+0.16	I	3.4	2
	19	Hd.	EI	+0.020		+0.16	I	---	2
	21	An.	EI	+0.101		+0.38	II	3.6	2½
	22	Hd.	EI	+0.019		0.00	I	2.9	2½
	23	Fn.	EI	−0.017		+0.04	I	2.9	2
	28	An.	EI	-----		+0.27	II	3.6	2½
	30	Hd.	EI	+0.034		−0.46	II	3.1	2
	31	An.	EI	−0.013		+0.11	II	3.6	3
Nov.	2	Fn.	WI	+0.012		+1.63	I	2.9	2
	4	Hd.	WI	+0.058		+0.24	I	3.4	3
	6	Wy.	WI	+0.027		+0.16	II	2.6	2
	7	Hd.	WI	+0.002		+0.31	I	3.9	2
	10	Fn.	WI	+0.018		----	I	2.9	2
	16	Hd.	EI	+0.021		----	I	2.9	3½
	19	Hd.	EI	+0.017		----	II	2.6	2
	20	Wy.	EI	+0.017		----	I	---	3½
	21	Fn.	EI	+0.027		----	I	2.9	2½
	23	Fn.	EI	+0.039		−0.44	I	3.9	2
	24	Hd.	EI	+0.005		−0.14	I	2.9	2
	25	Wy.	EI	+0.006		----	I	2.9	3
	26	Wy.	EI	+0.041		----	I	---	3½
Dec.	17	Fn.	WI	+0.026		----	I	2.9	2
	18	Hd.	WI	+0.016		----	I	2.9	2½
	21	Fn.	WI	+0.019		+0.10	I	---	3½
	23	Hd.	WI	+0.021		----	I	---	2
1915									
Apr.	*29*	*Wy.*	*EI*	*+0.056*	*−0.95*	*−0.93*	*0*	---	*3½*
May	*14*	*Wy.*	*WI*	*+0.121*	----	----	*0*	---	*3½*
	17	*Wy.*	*EI*	-----	*+0.06*	*+0.06*	*0*	---	*3½*
	24	*Fn.*	*WI*	*+0.027*	*−0.87*	*−0.91*	*0*	---	*3½*
	26	*Wy.*	*WI*	*+0.027*	*−1.59*	*−1.63*	*0*	---	*3½*
Aug.	9	Fn.	EI	+0.022		+0.03	I	3.4	3
	10	An.	EI	+0.041		+0.25	II	---	2
	13	An.	EI	+0.028		+0.54	I	---	2½
	16	Fn.	EI	+0.039		+0.10	I	2.9	2
	17	An.	WI	+0.033		+0.63	I	3.4	3
	18	Wy.	WI	+0.002		+0.14	I	2.9	2½
Sept.	22	Wy.	EI	+0.051		+0.21	II	2.6	2
	24	Hd.	EI	+0.028		−0.11	I	2.9	3
	28	Hd.	EI	+0.033		−0.28	I	2.9	2½
Oct.	6	Hd.	WI	−0.003		+0.57	I	---	3
	9	Hd.	WI	+0.015		−0.11	I	2.9	3
	11	Hd.	WI	+0.031		−0.30	II	3.1	2
1915									
Oct.	30	Wy.	EI	+0.025		+0.30	I	3.4	3
Nov.	3	Hd.	EI	+0.037		−0.10	I	2.9	2
	9	Hd.	WI	+0.037		+0.42	I	2.9	3
	10	Fn.	WI	+0.017		+0.36	I	2.9	2½
	15	Hd.	WI	+0.022		−0.43	0	---	3
	16	Fn.	WI	−0.012		−0.75	I	2.9	2
	17	Wy.	WI	+0.029		−0.06	I	2.9	2½
	19	Fn.	EI	+0.046		−0.26	I	3.4	3
	22	Fn.	EI	+0.004		+0.18	I	3.4	2½
	30	Fn.	EI	+0.020		+0.18	I	2.9	2½
Dec.	6	Fn.	WI	−0.006		−0.67	I	2.9	3
1916									
June	*1*	*Hd.*	*EI*	*+0.034*	*−0.37*	*−0.47*	*0*	---	*3*
Oct.	24	Hd.	WI	+0.041		+0.05	II	3.1	2
	27	Hd.	EI	−0.030		−0.35	II	3.1	3
Nov.	2	Hd.	EI	+0.025		−0.29	I	3.4	3
	7	Wy.	EI	0.000		+0.53	I	2.9	2
	27	Wy.	WI	+0.019		−0.27	I	3.4	2
Dec.	7	Fn.	EI	+0.006		−0.08	I	3.4	2½
1917									
Jan.	*12*	*Fn.*	*EI*	*+0.021*	*−0.97*	*−0.94*	*0*	---	*2½*
Apr.	*8*	*Hd.*	*WI*	*+0.019*	*−0.32*	*−0.17*	*0*	---	*3*
May	*10*	*Wy.*	*WI*	*+0.106*	*−0.16*	*−0.16*	*0*	---	*3½*
	14	*Hd.*	*WI*	*+0.075*	*−0.67*	*−0.67*	*0*	---	*3*
Sept.	18	Wy.	EII	+0.010		+0.59	I	2.9	--
Oct.	15	Fn.	EII	+0.015		−0.36	I	3.4	3
	22	Hd.	EII	+0.032		+0.49	I	2.9	2
	25	Hd.	EII	+0.008		+0.56	I	2.9	2
Nov.	2	Fn.	EII	+0.017		+0.13	I	2.9	2
	12	Wy.	WII	+0.052		----	I	3.4	3
	20	Fn.	WII	+0.025		−0.52	I	3.4	2½
Dec.	6	Fn.	WII	+0.024		−0.76	I	3.4	1½
	10	Fn.	WII	+0.024		−0.22	I	2.9	2
1918									
Jan.	*10*	*Fn.*	*EII*	*−0.005*	*−0.22*	*−0.20*	*0*	---	*3*
	19	*Wy.*	*WII*	*+0.048*	*−0.19*	*−0.13*	*0*	---	*3*
	21	*Fn.*	*WII*	*+0.046*	*+0.16*	*+0.23*	*0*	---	*2½*
Feb.	*18*	*Fn.*	*EII*	*+0.038*	*−0.03*	*+0.04*	*0*	---	*3½*
Mean			1914.68	+0.023		+0.06			
			1914.70						
Corr				−0.081		−0.22			

318 B. Cephei [1]

				h	m	s	°	′	″			
1912												
Oct.	16	Fn.	WII	0	11	6.66	+76	27	2.15	0	---	1½
	27	R.	EII			6.78			3.18	0	6.0	1½
	29	R.	EII			6.59			3.55	0	7.0	4
Nov.	2	R.	WII			6.50			2.85	0	7.0	1½
1914												
Sept.	2	Wy.	WI			6.70			2.66	0	6.0	2½
	4	Fn.	WI			6.58			3.20	0	6.0	3
	9	Fn.	EI			6.66			2.28	0	6.0	2½
	14	Fn.	EI			6.78			2.74	0	6.5	2
Mean			1913.75	0	11	6.656	+76	27	2.83			
Corr						−0.081			−0.35			

318 B. Cephei s. P.

				h	m	s	°	′	″			
1912												
Mar.	18	Fn.	EII	0	11	6.70	+76	27	1.99	0	6.8	3½
Apr.	8	Fn.	WII			6.50			2.85	0	6.5	3
	11	Fn.	EII			6.69			2.09	0	---	4½
	23	Hd.	WII			6.41			1.94	0	6.5	3½
1915												
Apr.	6	Wy.	EI			6.69			1.52	0	---	3½
	7	An.	EI			----			1.92	0	6.0	4
	13	Fn.	WI			6.49			1.75	0	6.5	3
	14	An.	WI			----			2.48	0	7.0	3
Mean			1913.27	0	11	6.580	+76	27	2.07			
			1913.77									
Corr						−0.081			+0.52			

[1] Double; mean observed.

B. D.+3° 26

			h m s	° ′ ″			
1912							
Aug. 3	R.	EII	0 11 20.086	+3 45 4.32	0	7.5	3
6	R.	EII	20.049	4.43	0	---	1
20	R.	WII	20.070	4.43	0	7.5	1½
24	R.	WII	20.079	4.43	0	8.0	1
1914							
Aug. 20	Fn.	WI	20.039	3.74	0	7.5	2½
22	An.	WI	20.096	4.97	0	7.0	2
30	Wy.	WI	20.075	4.42	0	7.0	2½
Sept. 19	Wy.	EI	20.087	4.74	0	7.0	2
20	An.	EI	20.062	3.89	0	7.0	2½
Mean	1913.76		0 11 20.071	+3 45 4.37			
Corr			−0.081	−0.19			

Weisse$_2$ 0 253

			h m s	° ′ ″			
1911							
Sept. 6	R.	WII	0 12 14.871	+22 45 23.42	0	6.5	1
11	Fn.	WII	14.843	23.26	0	6.8	1½
Oct. 4	Fn.	EII	14.901	22.61	0	6.8	2½
6	Fn.	EII	14.932	23.20	0	---	4
1915							
Aug. 23	Wy.	WI	14.909	23.77	0	7.0	2½
25	Wy.	WI	14.895	23.50	0	6.5	3½
Sept. 13	Hd.	EI	14.876	23.15	0	6.5	2
14	Wy.	EI	14.885	23.20	0	7.0	2
Mean	1913.70		0 12 14.889	+22 45 23.26			
Corr			−0.081	−0.24			

θ Andromedæ

			h m s	° ′ ″			
1912							
Aug. 10	R.	EII	0 12 23.115	+38 10 54.96	I	4.4	1
15	R.	WII	23.140	55.19	0	---	--
27	R.	WII	23.203	55.16	I	4.4	1
Sept. 6	Hd.	EII	23.136	55.19	I	4.4	2
1913							
Dec. 9	R.	EI	23.118	54.76	I	4.4	2
11	Fn.	EI	23.178	55.90	0	5.0	2
18	Fn.	WI	23.125	55.61	0	5.0	2
19	R.	WI	23.167	55.25	I	4.4	1½
1915							
Aug. 31	Wy.	WI	23.110	-----	I	4.4	2½
Nov. 1	Fn.	EI	23.102	-----	0	5.0	3
1916							
Nov. 24	Fn.	WI	23.086	-----	0	4.5	2½
1917							
Oct. 30	Wy.	EII	23.129	-----	0	---	3
Nov. 6	Fn.	EII	23.100	-----	0	5.0	3
9	Fn.	WII	23.091	-----	0	---	2
12	Wy.	WII	23.083	-----	0	5.5	3
Dec. 5	Hd.	WII	23.116	-----	I	4.4	2
Mean	1915.26		0 12 23.125	+38 10 55.25			
	1913.30						
Corr			−0.081	−0.27			

Weisse$_1$ 0 176

			h m s	° ′ ″			
1911							
Oct. 16	Fn.	WII	0 13 17.931	+12 16 19.63	0	6.3	2
18	Fn.	WII	17.920	19.63	0	6.6	2½
Nov. 7	R.	EII	17.930	18.90	0	6.5	2
10	Hd.	EII	17.913	18.83	0	6.2	2
1914							
Nov. 11	An.	WI	17.905	18.92	0	6.5	2½
13	Fn.	WI	17.954	19.72	0	7.5	3½
24	Hd.	EI	17.922	19.44	0	6.5	3
26	Wy.	EI	17.943	18.95	0	---	3½
Mean	1913.35		0 13 17.927	+12 16 19.25			
Corr			−0.081	−0.21			

σ Andromedæ

			h m s	° ′ ″			
			0 13 37.338	+36 17 10.42			
1912							
Aug. 31	R.	WII	−0.028	+0.32	0	5.5	3
Sept. 9	Hd.	EII	−0.047	+0.77	I	3.9	--
10	R.	EII	−0.041	+1.00	I	4.4	3½
12	R.	WII	−0.004	+0.37	I	4.4	1
1914							
Sept. 5	Wy.	WI	−0.009	+0.77	I	4.4	1½
10	An.	EI	+0.003	+0.46	I	3.9	2
21	Hd.	EI	−0.015	+0.99	I	3.9	2½
22	Wy.	EI	−0.048	+1.32	I	4.9	2½
28	Hd.	WI	−0.038	+1.23	I	4.4	2½
Oct. 2	Wy.	WI	−0.031	----	I	4.4	2
5	Wy.	WI	+0.026	----	I	4.9	2
30	Hd.	EI	−0.023	----	I	3.9	2
Nov. 6	Wy.	WI	+0.034	----	I	3.9	2
16	Hd.	EI	−0.029	----	I	4.4	3
Dec. 21	Fn.	WI	−0.045	----	0	---	3
1915							
Aug. 31	Wy.	WI	−0.043	----	I	4.4	2½
Nov. 1	Fn.	EI	−0.029	----	0	5.0	3
22	Fn.	EI	−0.014	----	0	---	2½
1916							
Nov. 27	Wy.	WI	−0.019	----	I	4.9	2
1917							
Oct. 30	Wy.	EII	−0.054	----	0	---	3
Nov. 12	Wy.	WII	−0.035	----	0	5.5	3
Dec. 5	Hd.	WII	−0.030	----	I	3.9	2
Mean	1915.06		−0.024	+0.80			
	1913.81						
Corr			−0.081	−0.26			

Piazzi 0 38

			h m s	° ′ ″			
1911							
Sept. 18	Fn.	WII	0 13 56.111	+31 1 3.49	0	---	1½
20	R.	WII	56.093	3.39	0	6.0	2
Nov. 11	R.	EII	56.087	2.57	0	5.5	1½
15	Fn.	EII	56.108	2.46	0	---	2½
1914							
Nov. 4	Hd.	WI	56.087	3.49	0	6.5	3
5	Fn.	WI	56.098	2.92	0	6.5	2
18	Fn.	EI	56.111	3.23	0	6.5	2
23	Fn.	EI	56.098	3.87	0	6.0	2
Mean	1913.33		0 13 56.099	+31 1 3.18			
Corr			−0.081	−0.25			

Bradley 13

			h m s	° ′ ″			
1912							
Sept. 14	R.	WII	0 13 57.252	+43 17 28.94	0	---	1
17	R.	WII	57.281	29.41	0	6.5	2½
27	Hd.	EII	57.205	28.89	0	6.0	3
29	R.	EII	57.212	29.35	0	5.5	2
1913							
Nov. 21	R.	WI	57.231	29.51	0	5.5	3
22	Hd.	WI	57.264	29.01	0	6.5	2
25	R.	EI	57.196	29.32	0	6.0	2
Dec. 3	Hd.	EI	57.191	28.76	0	6.0	2
Mean	1913.31		0 13 57.229	+43 17 29.15			
Corr			−0.081	−0.28			

Weisse$_1$ 0 185

			h m s	° ′ ″			
1912							
Sept. 30	R.	EII	0 14 4.082	−8 32 57.00	0	---	3½
Oct. 1	R.	EII	4.112	58.53	0	6.5	3½
9	Hd.	WII	4.040	57.91	0	7.0	2½
10	R.	WII	4.062	57.67	0	7.0	2½

			h m s	° ′ ″			
1913							
Nov. 24	Fn.	WI	4.079	58.42	0	6.5	3½
Dec. 4	Fn.	EI	4.149	58.29	0	---	3
5	Fn.	EI	4.108	57.51	0	7.5	3½
15	Fn.	WI	4.106	58.60	0	6.5	2½
Mean	1913.35		0 14 4.092	−8 32 57.99			
Corr			−0.081	−0.15			

ι Ceti

			h m s	° ′ ″			
			0 14 50.554	−9 19 22.12			
			s	″	″			
1911							
Oct. 12	R.	WII	+0.078	−0.66	I	3.9	3
13	Hd.	WII	+0.061	+0.54	I	3.7	2
Nov. 16	R.	EII	+0.006	+0.67	I	3.9	2½
18	R.	EII	+0.048	----	I	---	--
Dec. 19	R.	EII	+0.047	+0.12	I	3.4	3
1912							
May 31	*R.*	*WII*	*−0.012*	*+0.94* *+0.51*	*0*	---	*5*
Oct. 4	R.	EII	+0.059	+0.44	I	3.4	1
15	R.	WII	+0.044	+0.04	I	3.4	2½
30	Fn.	EII	+0.058	+0.55	I	3.4	3
31	Hd.	EII	+0.019	+0.26	I	3.9	3
Nov. 5	Fn.	WII	+0.089	+0.43	0	---	2
6	R.	WII	+0.070	+0.33	0	---	3
9	Fn.	WII	+0.078	−0.17	I	---	3
10	R.	EII	+0.029	−0.28	I	3.4	4
16	Hd.	EII	+0.031	−0.07	I	2.9	--
18	Fn.	EII	+0.042	+0.07	I	3.5	2
19	R.	EII	+0.071	−0.04	I	---	4
25	Fn.	WII	+0.058	+0.40	I	3.5	2
26	Hd.	WII	+0.088	−0.22	I	2.9	--
29	Fn.	WII	+0.072	−0.01	I	2.6	4
1913							
Nov. 3	Fn.	EI	+0.080	+0.09	0	---	3½
4	R.	EI	+0.074	+0.38	I	2.9	3½
5	Hd.	EI	+0.006	+0.42	I	3.4	2
6	Fn.	EI	+0.044	−0.13	I	3.9	3
7	R.	EI	+0.087	−0.51	I	2.9	3
10	Fn.	WI	+0.063	+0.09	0	---	4
11	R.	WI	+0.019	+1.04	I	2.9	3
12	Hd.	WI	+0.038	−0.17	I	3.4	3
17	Fn.	WI	+0.084	−0.77	I	3.4	2½
19	Hd.	WI	+0.024	−0.36	0	---	3
Dec. 6	Hd.	EI	+0.059	+0.11	I	3.4	2
12	R.	EI	+0.062	−1.22	I	3.4	4
13	Hd.	EI	+0.043	−0.26	I	3.1	2
16	R.	WI	+0.062	[−2.07] [1]	0	---	4
1914							
Sept. 17	Fn.	EI	+0.052	−0.10	0	---	2
25	Wy.	EI	+0.097	+0.14	I	3.9	3
26	An.	EI	+0.050	−0.01	II	3.6	3
29	Wy.	WI	+0.070	−0.06	I	3.9	4
30	An.	WI	+0.054	−0.46	I	2.9	3
Oct. 1	Hd.	WI	+0.023	+0.17	I	3.4	3
3	Wy.	WI	+0.045	−0.29	I	4.4	3
5	Wy.	WI	-----	−0.67	I	3.4	2½
9	Hd.	WI	+0.066	−0.40	I	3.4	2
10	An.	WI	+0.063	−0.01	1	4.4	3½
12	Hd.	WI	+0.065	+0.29	I	---	3
19	Hd.	EI	+0.032	+0.48	I	2.9	2
21	An.	EI	+0.065	+0.38	I	4.4	3
22	Hd.	EI	+0.052	+0.27	I	2.9	3½
23	Fn.	EI	+0.046	+0.69	I	3.4	3
30	Hd.	EI	+0.032	−0.61	I	3.4	2
31	An.	EI	+0.080	−1.18	I	4.4	3
Nov. 2	Fn.	WI	+0.075	+0.42	I	3.9	2½
7	Hd.	WI	+0.039	----	0	---	3
20	Wy.	EI	+0.052	----	0	---	3½
25	Wy.	EI	+0.061	----	I	3.4	3½
1915							
May 17	*Wy*	*EI*	-----	*+0.04* *+0.05*	*0*	---	*3*
26	*Wy*	*WI*	-----	*−0.75* *−0.86*	*0*	-	*4*
Aug. 9	Fn.	EI	+0.038	−0.40	I	4.4	3½
12	Fn.	EI	+0.029	−0.69	0	- -	2½
1915			s	″	″			
Aug. 13	An.	EI	+0.039	+0.46	I	4.9	3
16	Fn.	EI	+0.065	−0.01	I	---	3
17	An.	WI	+0.046	−0.21	I	4.4	3
18	Wy.	WI	+0.010	−0.82	I	4.4	3½
31	Wy.	WI	+0.047	−0.93	I	3.4	3
Sept. 1	Hd.	WI	+0.048	−0.42	0	---	3½
7	Wy.	WI	+0.018	−0.32	I	3.9	2½
22	Wy.	EI	+0.103	−0.56	I	3.4	2
24	Hd.	EI	+0.080	----	I	2.9	2
27	Wy.	EI	+0.050	−0.83	I	3.9	3½
28	Hd.	EI	+0.076	−0.15	I	3.4	2½
Oct. 9	Hd.	WI	+0.063	−0.58	I	3.4	3
11	Hd.	WI	+0.083	−0.96	I	2.9	2
30	Wy.	EI	+0.064	−0.11	I	3.9	3½
Nov. 3	Hd.	EI	+0.035	+0.14	I	3.4	2
9	Hd.	WI	+0.060	−0.29	I	3.9	3
10	Fn.	WI	+0.088	+0.12	0	4.5	2½
16	Fn.	WI	+0.037	−0.54	I	3.9	2½
17	Wy	WI	+0.053	−0.25	0	---	4
19	Fn.	EI	+0.057	+0.29	I	3.9	3
22	Fn.	EI	+0.038	−0.06	0	---	3
26	Wy.	EI	+0.046	+0.02	I	3.9	3
30	Fn.	EI	+0.056	+1.03	I	3.9	3
Dec. 6	Fn.	WI	+0.076	−1.38	I	3.9	3
Mean	1914.42		+0.055	−0.10			
	1914.43						
Corr			−0.081	−0.15			

Lalande 347

			h m s	° ′ ″			
1912							
Oct. 2	R.	EII	0 15 29.165	−18 11 59.68	0	7.0	2½
5	R.	EII	29.185	59.76	0	6.5	2½
7	R.	WII	29.152	59.95	0	7.0	2
14	Fn.	WII	29.161	61.32	0	7.0	3½
1914							
Aug. 22	An	WI	29.062	59.60	0	6.0	2½
30	Wy.	WI	29.165	59.57	0	6.5	3
31	Fn.	WI	29.149	59.66	0	7.0	2½
Sept. 15	An.	EI	29.301	[62.90]	0	6.5	3
19	Wy.	EI	29.152	59.66	0	7.0	2½
20	An.	EI	29.127	60.10	0	7.0	3½
Mean	1913.92		0 15 29.162	−18 11 59.92			
	1913.83						
Corr			−0.081	−0.09			

ρ Andromedæ

			h m s	° ′ ″			
1915							
Nov. 1	Fn.	EI	0 16 22.636	+37 28 ----	0	---	3
1916							
Nov. 7	Wy.	EI	22.609	----	I	4.9	2½
24	Fn.	WI	22.663	----	0	5.0	2½
27	Wy.	WI	22.649	----	0	6.0	2
1917							
Oct. 15	Fn.	EII	22.652	----	0	5.5	3
30	Wy.	EII	22.679	----	0	---	3
Nov. 6	Fn.	EII	22.655	----	0	5.0	3
9	Fn.	WII	22.665	----	0	5.0	2
12	Wy.	WII	22.660	----	0	6.0	3
20	Fn.	WII	22.622	----	0	6.0	2½
Dec. 5	Hd.	WII	22.692	----	I	---	2
10	Fn.	WII	22.625	----	0	5.5	1½
Mean	1917.45		0 16 22.651	+37 28 ----			
Corr			−0.081	----			

ι Sculptoris

			h m s	° ′ ″			
1911							
Sept. 11	Fn.	WII	0 16 60.062	−29 28 45.64	0	5.6	2½
30	R.	EII	60.094	44.46	0	5.5	2½
Oct. 11	Hd.	WII	59.998	44.75	0	6.0	4
Nov. 19	Fn.	EII	59.971	44.65	0	5.6	3½

[1] Clouds; very poor seeing.

			h m s	° ′ ″			
1914							
Nov. 6	Wy.	WI	60.080	46.24	0	6.0	3
7	Hd.	WI	60.027	46.29	0	---	3½
17	Wy.	EI	60.142	43.77	0	5.5	3½
18	Fn.	EI	60.002	45.64	0	---	3½
Mean	1913.32		0 17 0.047	−29 28 45.18			
Corr			−0.081	+0.02			

Bradley 23

			h m s	° ′ ″			
1912							
Aug. 3	R.	EII	0 20 13.889	+52 32 54.52	0	6.0	3
5	Fn.	EII	13.940	53.98	0	---	--
15	R.	WII	13.968	54.20	0	---	--
20	R.	WII	13.961	54.17	0	6.0	1
1913							
Nov. 7	R.	EI	13.856	53.89	0	6.0	3
12	Hd.	WI	13.943	54.11	0	5.5	3½
17	Fn.	WI	13.956	53.90	0	5.5	2
25	R.	EI	13.857	53.53	0	5.5	3
Mean	1913.24		0 20 13.921	+52 32 54.04			
Corr			−0.081	−0.30			

44 Piscium

			h m s	° ′ ″			
			0 20 47.311	+1 26 28.54			
1912							
Aug. 6	R.	EII	+0.037	+0.41	0	7.0	1
10	R.	EII	+0.042	+0.49	0	5.5	1
24	R.	WII	+0.034	+0.17	0	6.5	2½
27	R.	WII	+0.070	+0.17	0	6.0	2
1913							
Nov. 5	Hd.	EI	+0.021	+0.84	0	5.5	2
6	Fn.	EI	+0.002	+0.80	0	6.0	3
20	Fn.	WI	+0.038	+0.29	0	6.0	3½
22	Hd.	WI	+0.025	+0.58	0	6.0	3
Mean	1913.25		+0.034	+0.47			
Corr			−0.081	−0.18			

α Phœnicis

			h m s	° ′ ″			
			0 21 -----	−42 47 43.10			
1911							
Nov. 25	Hd.	WII	-----	−1.9	I	---	4
1912							
Sept. 10	R.	EII	-----	−1.8	--	---	--
Oct. 1	R.	EII	-----	−1.3	--	---	--
4	R.	EII	-----	+2.4	--	---	--
27	R.	EII	-----	−0.9	I	---	--
29	R.	EII	-----	−2.8	I	---	5
30	Fn.	EII	-----	0.0	--	---	4½
Nov. 10	R.	EII	-----	−0.3	--	---	--
26	Hd.	WII	-----	−2.9	--	---	4
29	Fn.	WII	-----	+2.6	0	---	5
Dec. 19	Hd.	EII	-----	−1.7	--	---	5
24	Hd.	WII	-----	+0.1	--	---	5
1913							
Jan. 9	Hd.	WII	-----	+1.5	0	---	4
Dec. 18	Fn.	WI	-----	−1.5	0	---	4½
1914							
Aug. 20	Fn.	WI	-----	−2.9	0	---	4
31	Fn.	WI	-----	−0.1	0	---	4
Sept. 4	Fn.	WI	-----	+0.8	0	---	4½
21	Hd.	EI	-----	−0.2	I	---	4
22	Wy.	EI	-----	−0.5	0	---	4
23	An.	EI	-----	+0.3	0	---	5
25	Wy.	EI	-----	−0.8	0	---	5
28	Hd.	WI	-----	+0.1	I	---	4
29	Wy.	WI	-----	+0.3	0	---	4½
30	An.	WI	-----	−1.9	0	---	4
Oct. 1	Hd.	WI	-----	−1.5	I	---	4
2	Wy.	WI	-----	−1.9	0	---	4
5	Wy.	WI	-----	−2.1	0	---	4
9	Hd.	WI	-----	−2.0	0	---	4
1914			s	″			
Oct. 10	An.	WI	-----	−0.3	0	---	4½
12	Hd.	WI	-----	+0.1	0	---	3½
19	Hd.	EI	-----	−2.9	I	---	4
22	Hd.	EI	-----	+3.1	I	---	5
23	Fn.	EI	-----	+1.9	I	---	4
30	Hd.	EI	-----	−1.9	I	---	5
31	An.	EI	-----	−0.4	0	---	5
Nov. 2	Fn.	WI	-----	−0.5	0	---	4
4	Hd.	WI	-----	+0.4	0	---	5
5	Fn.	WI	-----	+0.2	0	---	4½
6	Wy.	WI	-----	−0.6	I	---	4
1915							
Jan. 10	Wy.	WI	-----	−1.8	0	---	3½
Aug. 9	Fn.	EI	-----	+0.1	0	---	4½
10	An.	EI	-----	+0.1	0	---	4
12	Fn.	EI	-----	+0.7	0	---	4
13	An.	EI	-----	−0.2	0	---	4
16	Fn.	EI	-----	−1.8	0	---	4½
17	An.	WI	-----	+0.7	0	---	4
18	Wy.	WI	-----	−2.0	0	---	4½
19	Fn.	WI	-----	−0.5	0	---	3½
23	Wy.	WI	-----	+0.7	0	---	3½
25	Wy.	WI	-----	−2.3	0	---	4
Sept. 8	Hd.	WI	-----	−2.0	I	---	3
9	Wy.	WI	-----	−3.6	0	---	4½
14	Wy.	EI	-----	−0.8	0	---	4
21	Wy.	EI	-----	+2.7	I	---	4
Oct. 30	Wy.	EI	-----	+0.3	I	---	4½
Nov. 9	Hd.	WI	-----	−0.1	0	---	5
16	Fn.	WI	-----	−1.4	0	---	4½
17	Wy.	WI	-----	−1.6	0	---	4
19	Fn.	EI	-----	+1.2	0	---	4½
24	Hd.	EI	-----	+0.3	0	---	4
26	Wy.	EI	-----	+0.8	0	---	4½
Dec. 6	Fn.	WI	-----	+0.2	0	---	4
1916							
Nov. 10	Fn.	EI	-----	+1.4	0	---	4½
16	Wy.	WI	-----	−0.8	I	---	4
20	Fn.	WI	-----	−0.2	0	---	4
24	Fn.	WI	-----	−0.6	0	---	4
27	Wy.	WI	-----	−1.8	I	---	4
Dec. 7	Fn.	EI	-----	−1.9	0	---	4
26	Fn.	WI	-----	−0.1	0	---	4
1917							
Oct. 22	Hd.	EII	-----	−2.7	0	---	4
25	Hd.	EII	-----	−0.7	0	---	4
Dec. 6	Fn.	WII	-----	−1.4	0	---	3½
10	Fn.	WII	-----	−0.6	0	---	4½
Mean	1915.07		-----	−0.57			
Corr			-----	+0.52			

Lalande 611

			h m s	° ′ ″			
1911							
Sept. 13	R.	WII	0 23 26.568	−12 9 23.21	0	6.5	1½
18	Fn.	WII	26.623	23.38	0	---	2
30	R.	EII	26.574	22.32	0	7.0	2
Oct. 4	Fn.	EII	26.623	23.87	0	7.0	3
Nov. 11	An.	WI	26.636	22.78	0	7.0	3½
17	Wy.	EI	26.554	22.87	0	6.5	3
19	Hd.	EI	26.555	23.45	0	6.5	2
Dec. 2	An.	WI	------	23.77	0	---	3
16	An.	WI	26.606	23.41	0	7.5	3
Mean	1913.31		0 23 26.592	−12 9 23.23			
	1913.49						
Corr			−0.081	−0.13			

η Sculptoris

			h m s	° ′ ″			
1912							
Sept. 17	R.	WII	0 23 28.024	−33 30 16.14	0	---	3½
27	Hd.	EII	28.147	14.82	0	6.0	5
30	R.	EII	28.109	15.12	0	---	3½
Oct. 7	R.	WII	27.960	14.07	0	---	3

			h	m	s	°	′	″		
1913										
Nov. 3	Fn.	EI			28.117			15.35	0	5.5 4
4	R.	EI			28.139			14.09	0	--- 4
11	R.	WI			28.139			14.27	0	--- 5
21	R.	WI			27.982			14.62	0	--- 4
Mean	1913.30		0	23	28.077	−33	30	14.81		
Corr					−0.081			+0.10		

Bradley 33

			h	m	s	°	′	″		
1911										
Sept. 20	R.	WII	0	23	32.057	+15	56	50.57	0	6.0 2
Oct. 11	Hd.	WII			32.055			51.16	0	6.0 2
Nov. 10	Hd.	EII			32.043			50.44	0	6.0 2
11	R.	EII			32.050			50.43	0	6.5 2½
1914										
Nov. 9	Hd.	WI			32.060			50.24	0	6.0 2½
10	Fn.	WI			32.066			51.37	0	6.0 2½
18	Fn.	EI			32.008			51.63	0	7.0 2½
21	Fn.	EI			------			50.94	0	6.0 2½
23	Fn.	EI			32.050			51.92	0	6.0 2
Mean	1913.34		0	23	32.049	+15	56	50.97		
	1913.51									
Corr					−0.081			−0.22		

Weisse$_1$ 0 340

			h	m	s	°	′	″		
1912										
Sept. 6	Hd.	EII	0	23	40.875	+9	41	48.39	0	6.0 2
9	Hd.	EII			40.844			49.12	0	--- -
12	R.	WII			40.817			49.01	0	5.5 1
14	R.	WII			40.810			48.94	0	--- 1
1913										
Nov. 24	Fn.	WI			40.850			48.65	0	6.5 2½
Dec. 3	Hd.	EI			40.841			49.03	0	7.0 2
4	Fn.	EI			40.844			48.56	0	--- 3
15	Fn.	WI			40.818			48.90	0	6.5 2
Mean	1913.31		0	23	40.837	+9	41	48.82		
Corr					−0.081			−0.21		

Lalande 626

			h	m	s	°	′	″		
1911										
Sept. 6	R.	WII	0	23	50.293	−20	49	48.86	0	6.5 1
11	Fn.	WII			50.353			48.37	0	7.0 2½
Nov. 16	R.	EII			50.440			51.38	0	7.5 2
18	R.	EII			50.382			49.31	0	--- 3½
1914										
Nov. 24	Hd.	EI			50.368			49.32	0	-- 3
Dec. 14	Fn.	WI			50.415			49.61	0	6.5 3½
17	Fn.	WI			50.458			49.92	0	7.0 2½
18	Hd.	WI			50.395			49.76	0	7.0 2½
30	An.	EI			50.317			50.78	0	7.0 3½
Mean	1913.55		0	23	50.380	−20	49	49.70		
Corr					−0.081			−0.07		

B. D.+63° 53

			h	m	s	°	′	″		
1911										
Oct. 12	R.	WII	0	25	8.98	+64	15	6.48	0	7.5 1½
13	Hd.	WII			9.05			6.19	0	7.0 2
Nov. 13	Fn.	EII			9.06			6.22	0	7.0 2
15	Fn.	EII			8.96			6.13	0	7.4 2½
1915										
Aug. 31	Wy.	WI			9.02			6.07	0	7.0 2½
Sept. 1	Hd.	WI			9.08			6.02	0	--- 3½
16	Wy.	EI			9.17			6.14	0	7.0 2
21	Wy.	EI			9.14			6.69	0	7.0 3
Mean	1913.76		0	25	9.058	+64	15	6.24		
Corr					−0.081			−0.33		

Bradley 35

			h	m	s	°	′	″		
1912										
Aug. 3	R.	EII	0	25	22.216	+29	15	20.02	0	5.5 3
6	R.	EII			22.226			19.99	0	6.0 1
20	R.	WII			22.249			20.17	0	5.5 1
24	R.	WII			22.287			20.13	0	6.0 2½
1913										
Dec. 6	Hd	EI			22.240			19.71	0	6.0 2
9	R.	EI			22.195			19.06	I	4.4 2
18	Fn.	WI			22.230			20.10	0	5.5 2½
19	R.	WI			22.285			19.95	I	4.4 1½
Mean	1913.28		0	25	22.241	+29	15	19.89		
Corr					−0.081			−0.25		

12 Ceti

			h	m	s	°	′	″		
			0	25	26.765	−4	27	16.09		
1911										
Oct. 25	Hd.	WII			+0.003			−0.19	0	5.8 2
26	Fn.	WII			+0.019			−0.80	0	5.8 2
Nov. 19	Fn.	EII			−0.006			−0.07	0	6.0 3
21	Fn.	EII			−0.012			−0.79	0	6.0 2
1915										
Aug. 23	Wy.	WI			+0.015			−0.29	0	6.0 2½
25	Wy.	WI			+0.058			−0.10	0	6.5 3½
Sept. 14	Wy.	EI			−0.015			−0.14	0	6.0 2
15	Hd.	EI			+0.039			−0.43	0	6.0 2
Mean	1913.76				+0.013			−0.35		
Corr					−0.081			−0.16		

49 G. Ceti

			h	m	s	°	′	″		
1912										
Oct. 2	R.	EII	0	25	52.755	−24	17	7.69	0	5.5 2½
5	R.	EII			52.806			7.79	0	5.5 2½
14	Fn.	WII			52.775			7.48	0	5.5 3½
15	R.	WII			52.789			7.33	0	5.5 2
1913										
Dec. 12	R.	EI			52.849			9.33	0	6.0 4
13	Hd.	EI			52.912			8.21	0	6.0 3
20	Hd.	WI			52.828			8.68	0	--- 3
22	Fn.	WI			52.833			7.56	0	--- 4
Mean	1913.37		0	25	52.818	−24	17	8.01		
Corr					−0.081			−0.04		

κ Cassiopeiæ

			h	m	s	°	′	″		
1912										
Sept. 27	Hd.	EII	0	27	52.38	+62	26	6.58	I	3.9 2
29	R.	EII			52.48			6.73	I	3.9 2
Oct. 7	R.	WII			52.49			7.01	I	3.9 1½
15	R.	WII			52.45			7.17	I	3.9 1
1913										
Nov. 6	Fn.	EI			52.45			6.85	I	3.9 2
7	R.	EI			52.41			6.53	I	3.4 2
12	Hd.	WI			52.55			8.20	I	3.9 3
20	Fn.	WI			52.32			7.31	0	4.5 3
Mean	1913.31		0	27	52.441	+62	26	7.05		
Corr					−0.081			−0.32		

Weisse$_2$ 0 645

			h	m	s	°	′	″		
1911										
Nov. 22	Hd.	EII	0	27	54.104	+38	20	51.19	0	7.2 1½
25	Hd.	WII			54.080			51.07	0	7.0 2
Dec. 1	R.	WII			54.118			51.86	0	--- 2
11	Hd.	EII			54.089			51.28	0	7.0 3
1914										
Nov. 13	Fn.	WI			54.087			51.72	0	7.5 3½
17	Wy.	EI			54.056			52.26	0	6.5 2½
18	Fn.	EI			54.082			-----	0	7.5 2
23	Fn.	EI			54.074			51.74	0	7.0 2
Dec. 16	An.	WI			54.040			51.66	0	7.0 5
Mean	1913.57		0	27	54.081	+38	20	51.60		
	1913.41									
Corr					−0.081			−0.27		

Lacaille 121

			h m s	° ′ ″			
1912							
Sept. 6	Hd.	EII	0 28 10.515	−25 51 19.08	0	8.0	3
10	R.	EII	10.430	18.82	0	---	4
12	R.	WII	10.449	18.94	0	7.0	2
17	R.	WII	10.440	19.18	0	8.0	3½
1913							
Nov. 4	R.	EI	10.488	18.39	0	7.0	3½
5	Hd.	EI	10.470	18.51	0	7.0	3
11	R.	WI	10.390	18.64	0	---	5
17	Fn.	WI	10.410	19.47	0	7.0	3
Mean	1913.28		0 28 10.449	−25 51 18.88			
Corr			−0.081	−0.02			

77 G. Sculptoris

			h m s	° ′ ″			
1911							
Sept. 6	R.	WII	0 29 14.013	−30 3 15.74	0	6.5	1
11	Fn.	WII	14.079	15.90	0	5.7	3
30	R.	EII	14.073	14.84	0	5.5	3½
Oct. 6	Fn.	EII	14.078	15.20	0	---	3½
1914							
Nov. 24	Hd.	EI	14.010	14.90	0	---	3
26	Wy.	EI	14.027	16.67	0	---	4
Dec. 17	Fn.	WI	14.174	15.00	0	6.0	3
18	Hd.	WI	14.126	15.46	0	6.5	3
30	An.	EI	14.051	15.40	0	6.5	4
Mean	1913.51		0 29 14.070	−30 3 15.46			
Corr			−0.081	+0.03			

13 Ceti[1]

			h m s	° ′ ″			
			0 30 36.995	−4 5 17.33			
1912							
Aug. 3	R.	EII	+0.007	+0.17	0	6.0	4
6	R.	EII	+0.030	+0.29	0	6.5	1
20	R.	WII	+0.026	−0.32	0	6.0	2
24	R.	WII	+0.050	−0.32	0	6.5	2½
1913							
Nov. 24	Fn.	WI	+0.048	−0.24	0	5.0	2½
25	R.	EI	+0.067	−0.25	I	4.9	2
Dec. 3	Hd.	EI	+0.051	+0.06	0	6.5	2
15	Fn.	WI	+0.050	−0.95	0	5.5	2½
Mean	1913.27		+0.041	−0.20			
Corr			−0.081	−0.16			

ζ Cassiopeiæ

			h m s	° ′ ″			
			0 31 57.106	+53 24 6.16			
1912							
Oct. 30	Fn.	EII	−0.073	+1.02	I	4.6	2½
31	Hd.	EII	−0.099	+0.23	I	3.4	--
Nov. 2	R.	WII	−0.084	+0.57	I	3.9	2
5	Fn.	WII	−0.096	+0.10	0	---	2
10	R.	EII	−0.116	+0.41	I	3.9	3½
1913							
Dec. 6	Hd.	EI	−0.120	+0.28	I	3.4	2
9	R.	EI	−0.140	−0.45	I	2.9	1½
19	R.	WI	−0.111	+0.81	I	3.8	2
20	Hd.	WI	−0.073	+0.17	I	---	2
Mean	1913.34		−0.101	+0.35			
Corr			−0.081	−0.30			

π Andromedæ

			h m s	° ′ ″			
			0 32 4.248	+33 13 26.52			
1911							
Sept. 13	R.	WII	−0.039	−0.16	I	3.4	1
18	Fn.	WII	+0.026	−0.02	I	4.1	2
Nov. 11	R.	EII	−0.041	−0.67	0	---	2
13	Fn.	EII	+0.061	−0.25	I	3.9	2
1914			s	″			
Sept. 29	Wy.	WI	−0.044	−0.64	I	3.9	3
Oct. 5	Wy.	WI	−0.028	−0.11	I	3.9	2
Nov. 6	Wy.	WI	+0.026	----	I	3.4	2
11	An.	WI	−0.021	−0.17	I	---	2½
13	Fn.	WI	−0.003	+1.05	0	5.0	3½
17	Wy.	EI	−0.037	+0.33	I	3.4	2½
18	Fn.	EI	+0.005	−0.67	0	---	2
Dec. 18	Hd.	WI	−0.062	----	I	3.8	2
1915							
Oct. 6	Hd.	WI	−0.018	----	0	---	3
Nov. 9	Hd.	WI	−0.023	----	I	4.4	2
16	Fn.	WI	−0.030	----	I	4.4	2
22	Fn.	EI	−0.008	----	0	---	2
Dec. 6	Fn.	WI	−0.021	----	0	4.5	3
10	Wy.	WI	+0.019	----	I	3.9	2
21	Fn.	WI	−0.031	----	0	4.5	2
1916							
Nov. 7	Wy.	EI	−0.038	----	I	3.9	2½
27	Wy.	WI	−0.023	----	0	5.5	2
1917							
Oct. 30	Wy.	EII	−0.005	----	0	---	3
Nov. 12	Wy.	WII	−0.005	----	0	5.0	3
20	Fn.	WII	−0.055	----	0	5.0	2
Dec. 10	Fn.	WII	−0.035	----	D	4.5	1½
Mean	1915.30		−0.017	−0.13			
	1913.61						
Corr			−0.081	−0.26			

Bradley 54

			h m s	° ′ ″			
1912							
Nov. 6	R.	WII	0 32 5.900	+14 44 11.11	0	---	2½
9	Fn.	WII	5.902	12.40	0	6.2	2
11	R.	EII	5.838	11.96	0	6.5	3½
12	R.	EII	5.912	11.35	0	6.5	3
16	Hd.	EII	5.901	11.86	0	6.0	2
1913							
Dec. 11	Fn.	EI	5.916	11.30	0	6.0	2
12	R.	EI	5.854	10.49	0	6.0	3½
18	Fn.	WI	5.900	12.90	0	6.0	2½
29	Fn.	WI	5.895	11.28	0	6.0	2
Mean	1913.35	0	32 5.891	+14 44 11.63			
Corr			−0.081	−0.22			

82 B. Ceti[1]

			h m s	° ′ ″			
1911							
Sept. 20	R.	WII	0 32 43.582	−25 15 43.89	D	---	3½
Oct. 11	Hd.	WII	43.619	43.89	0	5.8	3½
Nov. 15	Fn.	EII	43.667	45.24	0	6.0	4
16	R.	EII	43.610	45.48	D	6.5	2½
1915							
Sept. 7	Wy.	WI	44.013	44.84	0	6.5	2½
8	Hd.	WI	43.995	44.65	0	6.0	3
13	Hd.	EI	44.003	44.42	0	6.0	3
14	Wy.	EI	44.040	44.59	D	6.5	3
Mean	1913.75	0	32 43.816	−25 15 44.62			
Corr			−0.081	−0.03			

Piazzi 0 131

			h m s	° ′ ″			
1912							
Oct. 14	Fn.	WII	0 32 52.463	+2 38 29.78	0	6.9	2½
15	R.	WII	52.434	29.91	0	6.0	1½
27	R.	EII	52.457	29.65	0	6.0	2
29	R.	EII	52.454	29.55	0	---	4
1913							
Nov. 6	Fn.	EI	52.445	29.81	0	6.0	2½
7	R.	EI	52.463	29.12	0	6.0	2
12	Hd.	WI	52.432	29.23	0	6.5	3
17	Fn.	WI	52.457	29.76	0	6.5	2½
Mean	1913.34	0	32 52.451	+2 38 29.60			
Corr			−0.081	−0.19			

[1] Double; mean observed.

319 B. Cephei

				h m s	° ′ ″			
1911				0 32	+81 59			
Oct. 12	R.	WII	0 32	56.00	+81 59	50.03	0	7.0 1½
13	Hd.	WII		55.85		49.90	0	6.2 2
Nov. 18	R.	EII		56.01		49.38	0	--- --
19	Fn.	EII		55.79		50.17	0	6.6 3
1914								
Nov. 23	Fn.	EI		55.76		50.02	0	6.5 2½
24	Hd.	EI		55.52		50.43	0	--- 2
Dec. 21	Fn.	WI		55.67		49.76	0	6.5 3½
22	Wy.	WI		55.78		50.35	0	7.0 3½
Mean	1913.38		0 32	55.798	+81 59	50.00		
Corr				−0.081		−0.38		

319 B. Cephei s. p.

				h m s	° ′ ″			
1912				0 32	+81 59			
Mar. 13	Fn.	EII	0 32	55.90	+81 59	48.66	0	6.8 3½
16	Fn.	EII		56.18		47.96	0	6.9 3½
Apr. 9	Hd.	WII		55.98		48.15	0	6.5 4
20	Fn.	WII		55.32		49.87	0	--- 3½
1915								
Apr. 19	Fn.	WI		55.71		48.61	0	7.5 3
May 5	Hd.	EI		56.08		48.99	0	7.5 3
6	Fn.	EI		55.81		48.92	0	6.5 3½
14	Fn.	WI		55.39		49.45	0	7.0 3
Mean	1913.79		0 32	55.796	+81 59	48.83		
Corr				−0.081		+0.46		

ε Andromedæ

				h m s	° ′ ″			
				0 33	47.725	+28 49	22.63	
1911								
Oct. 16	Fn.	WII		−0.035		+0.59	0	4.8 2
18	Fn.	WII		−0.032		−0.08	I	4.4 2½
Nov. 21	Fn.	EII		+0.011		+0.38	0	4.8 2
22	Hd.	EII		+0.012		+0.14	I	3.9 1½
1914								
Nov. 26	Wy.	EI		+0.013		−0.19	0	--- 3½
28	Wy.	EI		+0.028		+0.19	0	--- 2½
Dec. 16	An.	WI		−0.003		+0.32	I	4.9 2
17	Fn.	WI		−0.034		+0.68	I	4.4 2
18	Hd.	WI		−0.033		----	I	4.4 2
30	An.	EI		+0.002		+0.23	0	--- 3
1915								
Dec. 6	Fn.	WI		−0.024		----	0	5.0 3
21	Fn.	WI		+0.012		----	0	4.5 2
1917								
Oct. 30	Wy.	EII		+0.011		----	0	--- 3
Nov. 20	Fn.	WII		−0.008		----	0	5.0 2
Mean	1914.62			−0.006		+0.25		
	1913.57							
Corr				−0.081		−0.25		

Groombridge 113

				h m s	° ′ ″			
1912			0	34	11.066	+48 51	35.58	0	--- 3
Aug. 29	R.	WII			11.070		36.14	0	--- 3
31	R.	WII			11.074		36.03	0	6.0
Sept. 6	Hd.	EII			11.069		36.35	0	5.5 3½
10	R.	EII							
1913									
Dec. 13	Hd.	EI			11.069		36.11	0	6.0 2
1914									
Aug. 20	Fn.	WI			11.082		36.08	0	5.5 2
22	An.	WI			11.074		37.26	I	5.4 1½
31	Fn.	WI			11.139		36.38	0	6.0 2
Sept. 17	Fn.	EI			11.152		36.72	0	6.0 1½
21	Hd.	EI			11.120		36.22	I	4.9 3
Mean	1913.80		0	34	11.092	+48 51	36.29		
Corr					−0.081		−0.29		

δ Andromedæ

				h m s	° ′ ″			
				0 34	30.793	+30 22	6.14	
1912								
Sept. 12	R.	WII		+0.012		+0.50	II	--- 1
14	R.	WII		+0.023		+0.12	I	3.9 1
27	Hd.	EII		−0.029		+0.23	I	2.9 2
29	R.	EII		−0.018		+0.55	II	2.6 2
1914								
Sept. 1	An.	WI		−0.012		+1.04	II	3.1 1
4	Fn.	WI		+0.034		+0.63	I	3.4 2½
9	Fn.	EI		−0.016		+0.48	I	3.4 2½
10	An.	EI		−0.021		+0.03	II	4.1 1½
14	Fn.	EI		+0.037		−0.24	I	3.4 2½
28	Hd.	WI		−0.009		+0.54	I	2.9 2
Nov. 6	Wy.	WI		+0.015		+0.25	I	2.9 2
10	Fn.	WI		−0.030		----	I	3.4 2
Dec. 18	Hd.	WI		−0.025		----	I	3.4 2
1915								
Aug. 23	Wy.	WI		−0.002		----	I	2.9 2
Oct. 6	Hd.	WI		−0.004		----	I	--- 2
Nov. 9	Hd.	WI		−0.019		----	I	3.4 2
16	Fn.	WI		+0.012		----	I	3.4 2
22	Fn.	EI		+0.012		----	0	--- 2
26	Wy.	EI		+0.036		----	I	3.4 2½
Dec. 10	Wy.	WI		+0.008		----	I	3.4 2
15	Fn.	WI		−0.012		----	I	3.9 2½
1916								
Nov. 7	Wy.	EI		−0.019		----	I	3.4 2½
Dec. 26	Fn.	WI		+0.043		----	I	3.9 2½
1917								
Oct. 30	Wy.	EII		+0.007		----	0	--- 3
Nov. 9	Fn.	WII		+0.003		----	I	4.4 2
Mean	1915.20			+0.001		+0.38		
	1913.99							
Corr				−0.081		−0.25		

Bradley 58

				h m s	° ′ ″			
1911			0	34	40.673	+20 45	53.39	0	6.0 2
Oct. 26	Fn.	WII			40.677		53.59	0	6.0 1
Nov. 3	Hd.	EII			40.722		53.93	0	6.0 2
7	R.	EII			40.651		52.99	0	5.0 4
30	R.	WII							
1915									
Sept. 3	Hd.	WI			40.542		52.67	0	--- 2
9	Wy.	WI			40.525		52.45	0	6.0 2½
15	Hd.	EI			40.570		52.21	0	6.0 2
16	Wy.	EI			40.564		52.13	0	5.8 2
Mean	1913.78		0	34	40.616	+20 45	52.92		
Corr					−0.081		−0.23		

α Cassiopeiæ

				h m s	° ′ ″			
				0 35	23.605	+56 2	37.82	
				s		″	″	
1912								
Sept. 17	R.	WII		+0.038		+0.29	I	2.4 2
Oct. 2	R.	EII		−0.002		+0.57	II	2.1 2
5	R.	EII		+0.051		+1.15	II	2.1 2
7	R.	WII		−0.065		+0.56	II	3.6 1½
1913								
Nov. 4	R.	EI		−0.060		+0.21	II	1.6 2½
5	Hd.	EI		−0.017		+0.04	II	2.1 2
11	R.	WI		+0.109		+1.68	II	2.1 2½
20	Fn.	WI		+0.062		+0.91	I	2.4 2½
1916								
May 31	*Fn.*	*EI*		*−0.005*	*+0.32*	*+0.36*	*0*	--- 3½
June 1	*Hd.*	*EI*		*+0.037*	*+0.26*	*+0.34*	*0*	--- 3½
5	*Wy.*	*EI*		*+0.010*	*−1.03*	*−0.97*	*0*	--- 3½
7	*Hd.*	*EI*		*−0.001*	*−0.04*	*−0.03*	*0*	--- 3
Nov. 10	Fn.	EI		−0.025		+0.50	I	2.4 2½
27	Wy.	WI		+0.048		+0.72	I	3.4 2

				s	″	″			
1917									
Mar.	*6*	*Fn.*	*WI*	*+0.070*	*+0.18*	*+0.04*	*0*	---	*3½*
Apr.	*8*	*Hd.*	*WI*	*−0.072*	*+1.35*	*+1.44*	*0*	---	*3½*
	22	*Wy.*	*EI*	*+0.003*	*+0.64*	*+0.60*	*0*	---	*3½*
	26	*Hd.*	*EI*	*+0.085*	*+0.39*	*+0.31*	*0*	---	*3½*
	29	*Hd.*	*EI*	*−0.001*	*−0.11*	*−0.16*	*0*	---	*3*
May	*9*	*Fn.*	*WI*	*+0.056*	*+0.35*	*+0.31*	*0*	---	*3½*
	14	*Hd.*	*WI*	*+0.074*	*+1.09*	*+1.08*	*0*	---	*3*
Oct.	15	Fn.	EII	+0.012		+0.44	I	2.9	3
	25	Hd.	EII	+0.032		+0.19	II	2.6	2
Nov.	2	Fn.	EII	+0.004		+1.44	I	2.9	2
	12	Wy.	WII	−0.032		+0.35	I	2.9	2½
	20	Fn.	WII	−0.031		+1.95	I	3.4	2
Dec.	6	Fn.	WII	−0.031		+0.13	I	2.9	1½
	10	Fn.	WII	−0.009		+0.23	I	2.9	1½
1918									
Feb.	*18*	*Fn.*	*EII*	*+0.031*	*+0.34*	*+0.32*	*0*	---	*3½*
	21	*Fn.*	*EII*	*+0.084*	*+0.70*	*+0.67*	*0*	---	*3½*
	27	*Hd.*	*EII*	*+0.122*	*+0.40*	*+0.35*	*0*	---	*3½*
Mar.	*7*	*Fn.*	*EII*	*+0.103*	*+1.30*	*+1.18*	*0*	---	*3½*
	25	*Fn.*	*WII*	*+0.014*	*+0.44*	*+0.38*	*0*	---	*3½*
May	*5*	*Fn.*	*EII*	*+0.011*	*+0.45*	*+0.40*	*0*	---	*3½*
	7	*Fn.*	*EII*	*+0.103*	*+0.88*	*+0.82*	*0*	---	*3½*
	8	*Fn.*	*EII*	*−0.035*	*+0.88*	*+0.86*	*0*	---	*3½*
Mean		1915.60		+0.005		+0.67			
Corr				−0.081		−0.30			

α Cassiopeiæ s. p.

				h	m	s	°	′	″			
				0	35	-----	+56	2	37.84			
1912												
Jan.	1	R.	EII			-----			+1.5	0	---	--
	4	R.	EII			-----			−2.6	0	---	--
Dec.	30	Fn.	WII			-----			+2.5	0	---	4½
1913												
Apr.	17	R.	WII			-----			−1.1	0	---	--
	20	R.	WII			-----			+0.8	0	---	--
May	8	Hd.	EII			-----			+4.6	0	---	5
1914												
Apr.	27	Wy.	EI			-----			−1.6	0	---	4½
	28	Hd.	EI			-----			+0.7	0	---	4½
June	2	Fn.	EI			-----			+2.5	0	---	4½
1915												
May	15	Wy.	WI			-----			+2.4	0	---	4
June	4	An.	WI			-----			−3.4	0	---	4
	8	Hd.	EI			-----			−3.9	0	---	4
1916												
June	5	Hd.	EI			-----			−6.1	0	---	4
1917												
Apr.	9	Hd.	WI			-----			+0.2	0	---	5
	10	Fn.	WI			-----			−4.5	0	---	5
May	1	Fn.	EI			-----			+8.1	0	---	4½
	3	Hd.	EI			-----			−2.3	0	---	4
	14	Wy.	WI			-----			+0.2	0	---	5
1918												
May	8	Fn.	EII			-----			−1.9	0	---	4½
Mean		1915.14				-----			−0.21			
Corr						-----			+1.61			

Piazzi 0 144

				h	m	s	°	′	″			
1912												
Nov.	16	Hd.	EII	0	35	57.726	−17	0	36.12	0	6.2	--
	18	Fn.	EII			57.735			36.60	0	6.5	2
	25	Fn.	WII			57.820			37.61	0	6.6	3
	26	Hd.	WII			57.792			37.48	0	6.5	2
1914												
Sept.	22	Wy.	EI			57.765			36.34	0	6.5	2½
	23	An.	EI			57.770			36.26	0	7.0	4
	29	Wy.	WI			57.783			37.42	0	6.5	3½
	30	An.	WI			57.786			36.04	0	7.0	3½
Oct.	1	Hd.	WI			57.762			36.28	0	6.5	3
Mean		1913.92		0	35	57.771	−17	0	36.68			
Corr						−0.081			−0.10			

Piazzi 0 146

				h	m	s	°	′	″			
1911												
Sept.	6	R.	WII	0	36	7.483	−4	50	44.99	0	---	2
	11	Fn.	WII			7.445			45.14	0	6.3	2
	30	R.	EII			7.498			43.37	0	5.5	1
Oct.	4	Fn.	EII			7.492			45.55	0	5.6	3
1914												
Nov.	13	Fn.	WI			7.540			45.34	0	---	3½
	18	Fn.	EI			7.469			44.68	0	--	2½
	19	Hd.	EI			7.469			44.60	0	6.0	2
Dec.	2	An.	WI			-----			44.70	0	7.0	2½
	18	Hd.	WI			7.519			45.01	0	6.0	2
Mean		1913.31		0	36	7.489	−4	50	44.82			
		1913.49										
Corr						−0.081			−0.16			

B. D. +38° 90

				h	m	s	°	′	″			
1916												
Oct.	26	Wy.	EI	0	36	-----	+38	57	53.43	0	6.0	2½
Nov.	7	Wy.	EI			-----			52.92	0	5.5	2½
	16	Wy.	WI			-----			52.18	0	5.5	2
	20	Fn.	WI			-----			53.33	0	5.5	2
Mean		1916.86		0	36	-----	+38	57	52.96			
Corr						-----			−0.27			

Weisse$_2$ 0 951

				h	m	s	°	′	″			
1912												
Sept.	12	R.	WII	0	39	1.553	+32	49	3.34	0	7.0	1½
	14	R.	WII			1.618			----	0	7.5	1
Oct.	27	R.	EII			1.586			2.57	0	7.0	1½
	29	R.	EII			1.586			3.37	0	7.0	3
1913												
Dec.	13	Hd.	EI			1.560			3.17	0	7.0	2
	15	Fn.	WI			1.546			2.50	0	7.0	2
	18	Fn.	WI			1.596			3.52	0	7.0	2½
1914												
Jan.	5	R.	EI			1.556			2.30	0	6.5	3
	6	Fn.	EI			1.593			----	0	7.0	2
Mean		1913.44		0	39	1.577	+32	49	2.97			
		1913.46										
Corr						−0.081			−0.26			

β Ceti

				h	m	s	°	′	″			
				0	39	4.425	−18	28	49.22			
						s	″		″			
1911												
May	*22*	*Hd.*	*EII*			*+0.069*	*+0.06*		*−0.07*	*0*	---	--
June	*8*	*Hd.*	*WII*			*−0.050*	*−0.30*		*−0.45*	*0*	---	--
	9	*T.*	*EII*			-----	*+1.66*		*+1.38*	*0*	---	--
	19	*Hd.*	*EII*			*+0.049*	*+1.01*		*+0.68*	*0*	---	--
	21	*Fn.*	*EII*			*+0.046*	*−0.02*		*−0.35*	*0*	---	--
Oct.	13	Hd.	WII			+0.074			----	II	2.1	2
	16	Fn.	WII			+0.099			+0.07	I	1.8	2½
	18	Fn.	WII			+0.103			+0.27	I	2.5	2½
	23	R.	WII			+0.034			+0.56	II	2.6	3
	24	Fn.	WII			+0.097			+1.54	I	2.0	3
	25	Hd.	WII			+0.060			−1.02	II	2.6	2
Nov.	10	Hd.	EII			+0.089			----	II	2.1	--
	11	R.	EII			+0.093			----	I	---	2½
	13	Fn.	EII			+0.037			----	I	---	3
	15	Fn.	EII			+0.017			−1.49	I	2.9	3½
	16	R.	EII			+0.062			+0.44	II	2.6	2½
	18	R.	EII			+0.114			----	I	2.4	4
Dec.	1	R.	WII			+0.084			−0.66	II	2.6	4
	11	Hd.	EII			+0.065			−0.54	I	2.4	4
1912												
Jan.	9	Fn.	EII			+0.030			----	I	---	4½
	10	Fn.	EII			+0.071			+0.24	I	---	
May	*2*	*Fn.*	*EII*			*+0.063*	*+1.21*		*+1.42*	*0*	---	*4*
	8	*Fn.*	*WII*			*+0.125*	*−0.75*		*−0.72*	*0*	---	*4*
	9	*Hd.*	*WII*			*+0.009*	*−1.01*		*−0.89*	*0*	---	*4*
	10	*R.*	*WII*			-----	*−0.50*		*−0.68*	*0*	---	*5*
	13	*R.*	*WII*			-----	*−0.38*		*−0.44*	*0*	---	*5*
	16	*R.*	*EII*			-----	*+0.97*		*+0.91*	*0*	--	--

				s	″	″				
1912										
May	*17*	*Hd.*	*EII*	*+0.062*	*+0.55*	*+0.55*	*0*	---	*4*	
	19	*Fn.*	*EII*	*+0.144*	*+0.29*	*+0.23*	*0*	---	*4*	
	30	*Hd.*	*WII*	*+0.041*	*+0.63*	*+0.51*	*0*	---		
	31	*R.*	*WII*	*+0.037*	*−0.51*	*−1.02*	*0*	---		
Aug.	3	R.	EII	+0.078		−0.68	I	2.9	5	
	20	R.	WII	+0.041		−0.24	II	2.6	--	
	24	R.	WII	−0.003		−0.40	I	---	3½	
	27	R.	WII	+0.083		−0.36	II	2.6	1½	
Oct.	16	Fn.	WII	+0.042		----	I	1.9	3	
Nov.	1	Fn.	WII	+0.141		----	0	---	4½	
	2	R.	WII	+0.098		----	II	2.6	2	
	5	Fn.	WII	+0.070		−0.83	I	2.9	2½	
	6	R.	WII	+0.092		----	I	---	3	
	9	Fn.	WII	+0.088		----	I	2.3	3½	
	10	R.	EII	+0.074		----	II	2.6	4	
	12	R.	EII	+0.019		0.00	II	2.6	3	
	19	R.	EII	-----		−0.63	I	---	5	
	20	Fn.	EII	+0.067		−0.88	I	---	4½	
	22	Fn.	EII	+0.045		−2.01	I	---	3½	
	26	Hd.	WII	+0.091		−0.49	II	2.6	2½	
	29	Fn.	WII	+0.104		−1.16	I	2.6	4	
1913										
Apr.	*29*	*R.*	*EII*	*+0.138*	----	----	*0*	---	--	
	30	*Hd.*	*EII*	*+0.123*	*+0.13*	*+0.28*	*0*	---	*3*	
May	*1*	*Fn.*	*EII*	*+0.054*	*−0.16*	*−0.13*	*0*	---	*3½*	
	2	*R.*	*EII*	*+0.011*	*−0.77*	*−0.62*	*0*	---	--	
	18	*Hd.*	*WII*	*+0.085*	*−1.26*	*−1.05*	*0*	---	*4*	
	25	*Hd.*	*WII*	-----	*+0.41*	*+0.33*	*0*	---	*3*	
	28	*Hd.*	*WII*	*+0.037*	*+0.16*	*+0.04*	*0*	---	*3*	
	30	*R.*	*WII*	*+0.117*	*−0.47*	*−0.53*	*0*	---	--	
June	*2*	*Fn.*	*WII*	-----	*−0.17*	*−0.54*	*0*	---	*3½*	
Nov.	4	R.	EI	+0.092		----	II	2.6	2½	
	6	Fn.	EI	+0.087		−0.44	I	1.9	3	
	7	R.	EI	+0.107		−0.03	II	1.6	2½	
	11	R.	WI	+0.076		----	II	2.1	2½	
	17	Fn.	WI	+0.018		−0.38	I	1.9	3	
Dec.	6	Hd.	EI	+0.101		+0.11	II	2.6	2	
	9	R.	EI	+0.111		−0.52	II	2.6	2	
	11	Fn.	EI	+0.095		−0.18	I	2.4	3	
	12	R.	EI	+0.106		−1.57	I	2.9	3½	
	16	R.	WI	+0.057		−0.81	I	---	4	
	20	Hd.	WI	+0.060		----	0	---	2½	
	22	Fn.	WI	+0.053		----	I	2.4	3½	
	29	Fn.	WI	+0.090		----	I	2.4	2	
1914										
May	*10*	*Hd.*	*WI*	*+0.035*	*+1.82*	*+1.88*	*0*	---	*3½*	
	13	*Hd.*	*WI*	-----	*−1.58*	*−1.34*	*0*	---	*3½*	
	14	*Wy.*	*WI*	*+0.031*	----	----	*0*	---	*3*	
	19	*Hd.*	*WI*	*+0.078*	*+0.20*	*+0.26*	*0*	---	*3*	
	22	*Hd.*	*EI*	*+0.055*	*+1.23*	*+1.35*	*0*	---	*3*	
	26	*Hd.*	*EI*	-----	*−0.82*	*−0.52*	*0*	---	*3*	
	31	*Hd.*	*EI*	-----	*+0.88*	*+0.70*	*0*	---	*3*	
June	*1*	*Fn.*	*EI*	*+0.078*	*−0.84*	*−0.96*	*0*	---	*3½*	
	2	*Wy.*	*EI*	*+0.043*	*+0.64*	*+0.22*	*0*	---	*3½*	
Oct.	2	Wy.	WI	+0.084		+0.44	I	2.9	2½	
	19	Hd.	EI	+0.080		−0.26	II	2.6	3	
Nov.	9	Hd.	WI	+0.055		−1.07	II	2.1	3	
	10	Fn.	WI	+0.081		−1.63	I	1.9	3½	
	11	An.	WI	+0.106		−0.64	II	2.1	3	
	20	Wy.	EI	+0.048		----	I	---	4	
	23	Fn.	EI	+0.082		−0.70	I	2.4	3	
	24	Hd.	EI	+0.086		----	I	---	3	
	25	Wy.	EI	+0.084		----	I	---	4	
	28	Wy.	EI	+0.049		----	0	---	3½	
Dec.	16	An.	WI	+0.170		----	II	2.6	2½	
	17	Fn.	WI	+0.131		−0.79	I	2.9	2½	
	18	Hd.	WI	+0.113		−0.59	II	3.1	2	
	21	Fn.	WI	+0.098		----	I	2.9	3½	
	30	An.	EI	+0.005		−1.32	I	---	3½	
1915										
Apr.	*29*	*Wy.*	*EI*	*+0.106*	*−0.50*	*−0.39*	*0*	---	*4*	
	30	*Hd.*	*EI*	-----	*+0.27*	*+0.38*	*0*	---	*3½*	
May	*17*	*Wy.*	*EI*	-----	*+0.63*	*+0.82*	*0*	---	*4*	
	24	*Fn.*	*WI*	*+0.099*	*−0.02*	*+0.07*	*0*	---	*3½*	
	26	*Wy.*	*WI*	*+0.104*	*+1.27*	*+1.52*	*0*	---	*4*	
June	*4*	*Hd.*	*WI*	-----	*−0.21*	*−0.61*	*0*	---	*3*	
	6	*Fn.*	*EI*	*+0.057*	*+1.72*	*+1.39*	*0*	---	*3½*	
	8	*An.*	*EI*	*+0.024*	*−0.85*	*−0.92*	*0*	---	*3½*	

				s	″	″				
1915										
June	*11*	*An.*	*WI*	*+0.038*	----	----	*0*	---	*3½*	
Sept.	29	Fn.	EI	+0.097		−0.99	0	---	3	
Oct.	6	Hd.	WI	+0.105		----	0	---	3	
	11	Hd.	WI	+0.107		−1.22	II	2.6	2	
	12	Fn.	WI	+0.062		−0.55	I	2.4	3½	
	27	Wy.	WI	+0.083		−0.62	I	---	3½	
	30	Wy.	EI	+0.064		−0.18	I	2.9	3	
Nov.	1	Fn.	EI	+0.085		−0.80	I	2.4	3½	
	3	Hd.	EI	+0.090		−0.89	II	2.6	3	
	9	Hd.	WI	+0.058		−0.16	II	2.6	3	
	10	Fn.	WI	+0.086		−0.46	I	2.9	2½	
	16	Fn.	WI	+0.092		−1.41	I	2.4	3	
	17	Wy.	WI	+0.070		−1.44	I	3.4	3½	
	22	Fn.	EI	−0.009		+0.19	0	---	3	
	26	Wy.	EI	+0.064		+0.13	I	3.4	3	
	30	Fn.	EI	+0.034		+0.20	I	2.4	3	
Dec.	3	Fn.	EI	+0.083		−0.47	I	---	3	
	6	Fn.	WI	+0.068		−1.15	I	2.4	3½	
	10	Wy.	WI	+0.101		+0.25	I	2.9	3	
	15	Fn.	WI	+0.094		−0.41	I	2.9	3	
	21	Fn.	WI	+0.065		−1.09	I	2.4	3	
1916										
Jan.	3	Hd.	EI	+0.064		----	I	2.9	3½	
June	*1*	*Hd.*	*EI*	*+0.066*	*−0.08*	*−0.51*	*0*	---	*3½*	
	5	*Wy.*	*EI*	-----	*+0.09*	*−0.18*	*0*	---	*4*	
Oct.	26	Wy.	EI	+0.108		−0.42	I	2.9	4	
Nov.	2	Hd.	EI	+0.123		−0.39	I	---	3½	
Dec.	7	Fn.	EI	+0.056		−0.81	I	2.9	3	
	19	Hd.	WI	+0.108		−0.72	II	2.6	2½	
1917										
May	*9*	*Fn.*	*WI*	*+0.135*	*0.00*	*+0.22*	*0*	---	*3½*	
	10	*Wy.*	*WI*	*+0.106*	----	----	*0*	---	*3½*	
	14	*Hd.*	*WI*	*+0.100*	*−1.03*	*−0.96*	*0*	---	*3½*	
Oct.	25	Hd.	EII	+0.090		−0.73	II	3.1	3	
Nov.	20	Fn.	WII	+0.121		−1.17	I	3.4	3	
Dec.	10	Fn.	WII	+0.114		−0.98	I	2.9	2½	
	20	Hd.	EII	+0.086		−0.64	II	2.6	3	
1918										
Jan.	*19*	*Wy.*	*WII*	*+0.124*	*−0.46*	*−0.30*	*I*	---	*3½*	
	21	*Fn.*	*WII*	*+0.115*	*−1.93*	*−1.75*	*0*	---	*3*	
Mean			1914.29	+0.078		−0.55				
			1914.54							
Corr				−0.081		−0.09				

21 Cassiopeiæ

h m s ° ′ ″
0 39 41.166 +74 29 46.53

1912										
Aug.	29	R.	WII	+0.01		−0.49	0	---	--	
	31	R.	WII	+0.06		+0.75	0	---	2	
Sept.	6	Hd.	EII	−0.05		+0.20	0	6.5	3	
	10	R.	EII	+0.02		+0.26	0	5.5	4	
1914										
Aug.	20	Fn.	WI	+0.15		−0.27	0	6.0	2½	
	22	An.	WI	+0.04		−0.37	I	4.4	1½	
	31	Fn.	WI	+0.17		−0.10	0	---	2	
Sept.	19	Wy.	EI	+0.07		+0.06	0	6.0	2	
	20	An.	EI	+0.10		----	I	5.4	2½	
	21	Hd.	EI	+0.22		+0.02	0	6.0	3	
Mean			1913.88	+0.079		+0.01				
			1913.79							
Corr				−0.081		−0.35				

21 Cassiopeiæ s. p.

h m s ° ′ ″
0 39 41.167 +74 29 46.53

1912										
Apr.	20	Fn.	WII	−0.16		−0.05	0	---	4	
	23	Hd.	WII	−0.02		−0.01	0	6.0	3½	
May	3	Hd.	EII	+0.03		+0.51	0	6.0	3	
	24	Hd.	EII	−0.03		+0.30	0	6.0	4	
1915										
Apr.	6	Wy.	EI	−0.08		−0.54	0	7.0	3½	
	15	Hd.	WI	+0.11		−0.83	0	6.5	4	

1915			s	"			
Apr. 17	An.	WI	----	−0. 56	0	---	--
19	Fn.	WI	+0. 22	−0. 92	0	---	3
Mean------	1913. 60		+0. 010	−0. 26			
	1913. 81						
Corr----------			−0. 081	+0. 53			

o Cassiopeiæ

			h m s	° ′ ″			
			0 39 42. 311	+47 47 31. 11			
1911							
Sept. 13	R.	WII	−0. 012	+0. 09	I	3. 9	1
18	Fn.	WII	+0. 017	+0. 39	I	4. 4	2½
Nov. 3	Hd.	EII	−0. 051	−0. 20	0	5. 0	1
7	R.	EII	+0. 050	+0. 73	I	4. 4	1½
1915							
Sept. 7	Wy.	WI	−0. 037	+0. 72	I	4. 9	2
8	Hd.	WI	−0. 027	−0. 17	I	4. 4	2
13	Hd.	EI	−0. 020	+0. 30	I	3. 9	2
14	Wy.	EI	−0. 025	+0. 09	I	4. 9	2
Mean------	1913. 73		−0. 013	+0. 24			
Corr----------			−0. 081	−0. 29			

Lalande 1210

1912			h m s	° ′ ″			
Oct. 10	R.	WII	0 41 27. 187	+59 4 59. 65	0	---	4
14	Fn.	WII	27. 127	58. 06	0	6. 4	--
31	Hd.	EII	27. 192	58. 00	0	7. 0	3
Nov. 10	R.	EII	27. 220	57. 98	0	6. 5	3
11	R.	EII	27. 148	58. 87	0	7. 0	3
1913							
Dec. 22	Fn.	WI	27. 136	58. 85	0	6. 5	2½
29	Fn.	WI	27. 200	57. 63	0	6. 5	2
1914							
Jan. 5	R.	EI	27. 223	57. 41	0	6. 0	2½
6	Fn.	EI	27. 138	56. 62	0	6. 0	2
8	R.	EI	27. 200	57. 83	0	---	5
10	Hd.	EI	27. 138	57. 65	0	6. 5	3
Mean------	1913. 47		0 41 27. 174	+59 4 58. 05			
Corr----------			−0. 081	−0. 32			

ζ Andromedæ

			h m s	° ′ ″			
			0 42 33. 900	+23 46 39. 52			
1911							
Oct. 12	R.	WII	+0. 038	+0. 05	I	4. 4	1½
13	Hd.	WII	+0. 009	+0. 10	I	3. 9	2
Nov. 10	Hd.	EII	−0. 001	−0. 22	I	3. 4	--
11	R.	EII	+0. 001	−0. 53	0	---	3
1914							
Nov. 23	Fn.	EI	+0. 041	0. 00	0	4. 5	2
24	Hd.	EI	+0. 028	−0. 16	I	---	3
Dec. 2	An.	WI	-----	+0. 65	I	4. 9	2
16	An.	WI	+0. 024	+0. 32	I	4. 4	2
17	Fn.	WI	+0. 014	+1. 16	I	3. 9	2
Mean------	1913. 38		+0. 019	+0. 15			
	1913. 55						
Corr----------			−0. 081	−0. 24			

Bradley 80

1912			h m s	° ′ ″			
Oct. 15	R.	WII	0 42 44. 282	+6 14 59. 22	0	6. 0	2
16	Fn.	WII	44. 284	58. 65	0	6. 4	2½
29	R.	EII	44. 282	58. 71	0	5. 5	3
30	Fn.	EII	44. 253	59. 72	0	6. 0	2½

1913			h m s	° ′ ″			
Nov. 3	Fn.	EI	44. 318	58. 51	0	6. 5	3
4	R.	EI	44. 277	58. 76	0	5. 5	2½
10	Fn.	WI	44. 265	59. 61	0	6. 0	3
11	R.	WI	44. 343	59. 65	0	6. 0	2
Mean------	1913. 33		0 42 44. 288	+6 14 59. 10			
Corr----------			−0. 081	−0. 19			

Lalande 1275

1911			h m s	° ′ ″			
Sept. 6	R.	WII	0 42 56. 212	+25 47 59. 69	0	---	1
11	Fn.	WII	56. 228	59. 97	0	7. 2	--
Oct. 6	Fn.	EII	56. 178	60. 09	0	7. 0	3
Nov. 13	Fn.	EII	56. 229	59. 00	0	7. 8	3
1915							
Sept. 9	Wy.	WI	56. 255	60. 01	0	7. 0	3
16	Wy.	EI	56. 255	60. 11	0	6. 5	2½
21	Wy.	EI	56. 291	60. 91	0	7. 0	2½
Oct. 6	Hd.	WI	56. 253	60. 55	0	---	3
9	Hd.	WI	56. 228	59. 96	0	7. 0	2½
Mean------	1913. 96		0 42 56. 237	+25 48 0. 03			
Corr----------			−0. 081	−0. 24			

Lacaille 218

1912			h m s	° ′ ″			
Nov. 9	Fn.	WII	0 43 33. 979	−22 12 48. 56	0	6. 2	4
16	Hd.	EII	33. 991	49. 03	0	6. 2	3
18	Fn.	EII	33. 858	48. 04	0	6. 1	2
25	Fn.	WII	34. 026	49. 76	0	6. 0	3
1913							
Nov. 5	Hd.	EI	33. 982	47. 73	0	6. 0	2
6	Fn.	EI	34. 010	48. 83	0	5. 5	3
17	Fn.	WI	33. 914	49. 15	0	6. 0	3
21	R.	WI	33. 881	48. 29	0	6. 0	3
Mean------	1913. 37		0 43 33. 955	−22 12 48. 67			
Corr----------			−0. 081	−0. 06			

η Cassiopeiæ [1]

			h m s	° ′ ″			
			0 43 39. 391	+57 20 19. 50			
1912							
Nov. 1	Fn.	WII	+0. 229	−2. 71	0	---	3
2	R.	WII	+0. 186	−1. 79	I	2. 9	1½
12	R.	EII	+0. 206	−2. 53	I	3. 4	2
19	R.	EII	+0. 204	−1. 80	I	4. 4	4
1913							
Dec. 12	R.	EI	+0. 173	−2. 34	I	2. 9	3
13	Hd.	EI	+0. 189	−2. 70	I	3. 4	2
19	R.	WI	+0. 192	−2. 11	I	2. 9	1
20	Hd.	WI	+0. 209	−1. 95	I	---	2
Mean------	1913. 41		+0. 198	−2. 24			
Corr----------			−0. 081	−0. 31			

δ Piscium

			h m s	° ′ ″			
			0 44 0. 722	+7 5 43. 40			
1911							
Nov. 21	Fn.	EII	+0. 015	−0. 42	0	4. 9	2
22	Hd.	EII	+0. 059	−0. 14	I	4. 1	1½
25	Hd.	WII	+0. 042	−0. 09	I	3. 9	2
30	R.	WII	+0. 033	−1. 00	0	5. 0	4
1915							
Oct. 25	Hd.	WI	+0. 040	+0. 16	I	4. 4	2
27	Wy.	WI	+0. 021	−0. 38	0	5. 0	3
28	Hd.	EI	+0. 061	−0. 26	I	3. 9	2
29	Fn.	EI	+0. 080	−0. 55	0	5. 0	3
Mean------	1913. 86		+0. 044	−0. 34			
Corr----------			−0. 081	−0. 20			

[1] Double; following component observed

Bradley 86

			h	m	s	°	′	″			
1912											
Nov. 20	Fn.	EII	0	44	14.805	+16	27	16.72	0	5.6	3½
21	R.	EII			14.896			17.13	0	---	2½
26	Hd.	WII			14.833			16.98	0	5.8	3
29	Fn.	WII			14.819			17.90	0	5.5	2½
1913											
Nov. 7	R.	EI			14.841			16.59	0	---	2
12	Hd.	WI			14.851			17.36	0	---	3
20	Fn.	WI			14.864			16.83	0	---	2½
25	R.	EI			14.844			16.47	0	---	2
Mean	1913.39		0	44	14.844	+16	27	17.00			
Corr					−0.081			−0.22			

ν Andromedæ

			h	m	s	°	′	″			
1914											
Dec. 30	An.	EI	0	44	50.789	+40	35	-----	0	---	4
1915											
Nov. 16	Fn.	WI			50.788			-----	0	4.5	1½
22	Fn.	EI			50.755			-----	0	---	2½
26	Wy.	EI			50.758			-----	I	4.4	2½
Dec. 6	Fn.	WI			50.786			-----	0	5.0	3
10	Wy.	WI			50.783			-----	I	4.4	2
21	Fn.	WI			50.807			-----	0	4.5	2
1916											
Nov. 27	Wy.	WI			50.753			-----	0	5.5	2½
1917											
Nov. 9	Fn.	WII			50.752			-----	0	---	2
12	Wy.	WII			50.747			-----	0	5.0	3
Mean	1916.32		0	44	50.772	+40	35	-----			
Corr					−0.081			-----			

Piazzi 0 198

			h	m	s	°	′	″			
1911											
Oct. 18	Fn.	WII	0	44	54.460	−14	2	58.09	0	---	2½
23	R.	WII			54.397			58.13	0	5.5	3
Nov. 3	Hd.	EII			54.440			57.60	0	5.8	--
7	R.	EII			54.443			57.77	0	5.5	2½
1915											
Sept. 7	Wy.	WI			54.464			58.16	0	6.0	2½
8	Hd.	WI			54.445			58.41	0	6.0	2½
13	Hd.	EI			54.483			58.21	0	6.0	2½
14	Wy.	EI			54.460			58.21	0	6.0	3
Mean	1913.76		0	44	54.449	−14	2	58.07			
Corr					−0.081			−0.12			

Piazzi 0 196

			h	m	s	°	′	″			
1911											
Oct. 25	Hd.	WII	0	45	16.475	+44	30	43.48	0	6.5	2
26	Fn.	WII			16.444			42.76	0	6.5	2
Nov. 15	Fn.	EII			16.449			42.48	0	6.6	2½
16	R.	EII			16.465			42.84	0	7.0	1
1915											
Oct. 30	Wy.	EI			16.519			43.08	0	6.5	2½
Nov. 1	Fn.	EI			16.503			42.72	0	7.0	3½
9	Hd.	WI			16.467			43.07	0	6.0	2
10	Fn.	WI			16.439			42.85	0	7.0	2
Mean	1913.85		0	45	16.470	+44	30	42.91			
Corr					−0.081			−0.28			

Weisse$_1$ 0 732

			h	m	s	°	′	″			
1912											
Sept. 12	R.	WII	0	45	18.388	−0	42	51.83	0	6.5	1½
Oct. 2	R.	EII			18.437			51.42	0	7.0	1½
5	R.	EII			18.441			51.00	0	---	3
7	R.	WII			18.426			51.59	0	6.0	2½
1913											
Dec. 9	R.	EI			18.424			51.57	0	6.5	2
11	Fn.	EI			18.415			51.27	0	6.5	2½
15	Fn.	WI			18.423			52.08	0	7.0	2
18	Fn.	WI			18.467			51.56	0	7.0	3½
Mean	1913.35		0	45	18.428	−0	42	51.54			
Corr					−0.081			−0.18			

Bradley 89

			h	m	s	°	′	″			
1911											
Sept. 13	R.	WII	0	45	37.138	−11	7	44.24	I	4.4	1
18	Fn.	WII			37.207			44.16	0	5.3	2½
Nov. 18	R.	EII			37.205			45.07	0	---	3½
19	Fn.	EII			37.114			44.00	0	5.4	3
1914											
Nov. 24	Hd.	EI			37.125			45.19	0	---	3
26	Wy.	EI			37.076			45.04	0	6.0	3½
Dec. 2	An.	EI			-----			45.30	0	---	--
16	An.	WI			37.144			44.99	0	6.0	2½
17	Fn.	WI			37.160			45.27	0	6.0	2½
Mean	1913.36		0	45	37.146	−11	7	44.81			
	1913.53										
Corr					−0.081			−0.14			

20 Ceti

			h	m	s	°	′	″			
			0	48	24.424	−1	37	57.63			
1911											
Sept. 6	R.	WII			+0.059			−0.61	I	4.4	1
11	Fn.	WII			+0.093			−0.95	0	5.0	2
Oct. 4	Fn.	EII			+0.159			−1.17	I	4.5	3
6	Fn.	EII			+0.090			−0.77	0	5.3	3½
1915											
Aug. 31	Wy.	WI			+0.091			−0.45	0	---	3
Sept. 1	Hd.	WI			+0.140			−1.59	0	---	3½
3	Hd.	WI			+0.059			−1.13	0	---	2
15	Hd.	EI			+0.122			−0.42	I	4.4	2
22	Wy.	EI			+0.105			−1.12	I	4.4	3
Mean	1913.93				+0.102			−0.91			
Corr					−0.081			−0.17			

Weisse$_2$ 0 1172

			h	m	s	°	′	″			
1912											
Oct. 14	Fn.	WII	0	48	31.420	+36	55	49.67	0	6.6	--
15	R.	WII			31.421			49.78	0	6.0	1
27	R.	EII			31.402			49.27	0	6.0	1½
29	R.	EII			31.392			50.38	0	6.0	3
1913											
Nov. 5	Hd.	EI			31.452			50.18	0	6.0	2
6	Fn.	EI			31.367			49.34	0	6.0	1½
10	Fn.	WI			31.459			50.30	0	6.5	2
17	Fn.	WI			31.399			50.53	0	6.0	1½
Mean	1913.33		0	48	31.414	+36	55	49.93			
Corr					−0.081			−0.26			

γ Cassiopeiæ

			h	m	s	°	′	″			
			0	51	16.064	+60	13	46.46			
1912											
Aug. 29	R.	WII			0.00			−0.19	I–0	---	3
31	R.	WII			−0.03			----	0	---	2
Sept. 10	R.	EII			+0.02			+0.91	II	2.6	3
12	R.	WII			+0.02			----	II	2.6	1
14	R.	WII			0.00			+0.26	I	---	1
Oct. 1	R.	EII			−0.03			+1.10	II	2.1	2½

[1] Double; following component observed.

			s	″			
1913							
Dec. 12	R.	EI	−0.09	+0.18	II	2.6	3
13	Hd.	EI	−0.03	+0.40	II	2.1	2
15	Fn.	WI	−0.01	+0.27	I	1.9	2
18	Fn.	WI	+0.04	+0.53	I	1.9	3
Mean	1913.20		−0.011	+0.43			
	1913.33						
Corr			−0.081	−0.32			

γ Cassiopeiæ s. p.

			h m	s	°	′	″			
			0 51	.....	+60	13	46.45			
1913										
Jan. 13	Hd.	WII		.....			+1.5	0	...	4½
1914										
Jan. 16	R.	EI		.....			+0.1	0	...	5
Mar. 3	Fn.	WI		.....			+1.6	0	...	5
1915										
Apr. 7	An.	EI		.....			−3.0	I	...	4½
8	Hd.	EI		.....			−1.4	I	...	4½
10	An.	EI		.....			−0.8	0	...	4½
14	An.	WI		.....			−1.2	I	...	3½
15	Hd.	WI		.....			−2.5	I	...	4
17	An.	WI		.....			−0.6	I	...	5
June 12	An.	WI		.....			+0.8	0	...	4
1916										
Feb. 3	Fn.	EI		.....			−1.8	0	...	4½
7	Fn.	EI		.....			−1.0	0	...	4½
Mean	1915.05			.....			−0.69			
Corr				.....			+0.99			

Weisse$_1$ 0 839

			h m	s	°	′	″			
1912										
Sept. 19	R.	WII	0 51	25.751	+13	27	52.86	0	6.5	2½
Oct. 2	R.	EII		25.731			52.79	0	6.0	1
4	R.	EII		25.740			52.40	0	6.5	1
7	R.	WII		25.753			52.47	0	6.0	2
1913										
Nov. 3	Fn.	EI		25.759			52.48	0	6.5	3
4	R.	EI		25.730			53.02	0	6.0	3
11	R.	WI		25.743			52.76	0	...	2
12	Hd.	WI		25.718			52.35	0	6.5	3½
Mean	1913.30		0 51	25.741	+13	27	52.64			
Corr				−0.081			−0.22			

Lacaille 256

			h m	s	°	′	″			
1911										
Sept. 20	R.	WII	0 51	33.750	−28	15	46.23	0	6.5	3½
Oct. 11	Hd.	WII		33.668			46.78	0	6.5	3½
Nov. 3	Hd.	EII		33.722			47.34	0	6.2	3
7	R.	EII		33.717			48.33	0	6.0	3
1914										
Nov. 23	Fn.	EI		33.784			48.33	0	6.5	3½
24	Hd.	EI		33.729			47.35	0	...	...
Dec. 16	An.	WI		33.821			48.06	0	6.0	3
17	Fn.	WI		33.814			48.27	0	7.5	2½
30	An.	EI		33.764			45.96	0	7.0	4
Mean	1913.55		0 51	33.752	−28	15	47.41			
Corr				−0.081			0.00			

μ Andromedæ

			h m	s	°	′	″			
			0 51	45.275	+38	0	40.97			
1912										
Oct. 16	Fn.	WII		−0.043			+0.23	I	3.1	1½
28	Fn.	EII		+0.006			+0.05	0	...	2½
30	Fn.	EII		+0.024			+0.98	I	3.5	2½
31	Hd.	EII		−0.012			+0.55	I	3.9	2
Nov. 1	Fn.	WII		−0.007			−0.38	0	...	3

			s	″			
1913							
Dec. 9	R.	EI	−0.042	−0.29	I	3.4	1½
11	Fn.	EI	−0.016	−0.30	I	3.9	2
20	Hd.	WI	+0.031	+0.42	I	...	2
22	Fn.	WI	+0.028	+1.16	I	3.9	2½
1914							
Sept. 15	An.	EI	+0.015	+0.98	II	4.1	2
Nov. 26	Wy.	EI	+0.023	+0.81	I	...	3
28	Wy.	EI	+0.057	+0.11	0	...	2½
Dec. 18	Hd.	WI	−0.013	....	I	3.4	2
1915							
Oct. 6	Hd.	WI	−0.028	....	0	...	2
Nov. 26	Wy.	EI	−0.003	....	I	3.9	2½
Dec. 15	Fn.	WI	+0.020	....	I	4.4	2½
1916							
Nov. 27	Wy.	WI	+0.008	....	I	3.4	2
1917							
Dec. 10	Fn.	WII	−0.033	....	0	4.0	2½
Mean	1914.55		+0.001	+0.36			
	1913.70						
Corr			−0.081	−0.27			

Weisse$_1$ 0 870

			h m	s	°	′	″			
1911										
Oct. 18	Fn.	WII	0 53	2.229	+1	17	55.53	0	7.2	3
23	R.	WII		2.256			55.28	0	7.5	2
Nov. 15	Fn.	EII		2.225			54.32	0	7.8	3½
16	R.	EII		2.187			55.85	0	7.0	1½
1915										
Oct. 25	Hd.	WI		2.234			55.43	0	7.0	2½
27	Wy.	WI		2.227			55.34	0	7.5	3
28	Hd.	EI		2.225			55.30	0	7.0	2
29	Fn.	EI		2.270			54.84	0	7.0	3
Mean	1913.83		0 53	2.232	+1	17	55.24			
Corr				−0.081			−0.18			

B. D.+38° 148

			h m	s	°	′	″			
1916										
Nov. 10	Fn.	EI	0 53	.....	+38	59	23.08	0	6.5	2
16	Wy.	WI		.....			22.90	0	7.0	2
20	Fn.	WI		.....			22.53	0	7.0	2
Dec. 7	Fn.	EI		.....			22.83	0	...	2
12	Fn.	EI		.....			23.11	0	7.0	2½
Mean	1916.90		0 53	.....	+38	59	22.89			
Corr				.....			−0.27			

B. D.+20° 131

			h m	s	°	′	″			
1912										
Oct. 5	R.	EII	0 53	31.124	+20	55	6.00	0	6.0	1½
14	Fn.	WII		31.127			5.52	0	6.7	..
15	R.	WII		31.175			5.70	0	6.5	1
27	R.	EII		31.137			5.37	0	6.5	1½
1913										
Dec. 5	Fn.	EI		31.136			4.68	0	...	3
6	Hd.	EI		31.128			6.20	0	6.5	3
19	R.	WI		31.158			5.84	0	6.0	2
29	Fn.	WI		31.156			5.22	0	6.5	1½
Mean	1913.37		0 53	31.143	+20	55	5.57			
Corr				−0.081			−0.23			

Weisse$_1$ 0 890

			h m	s	°	′	″			
1911										
Oct. 25	Hd.	WII	0 54	12.280	−6	22	0.70	0	6.5	2
26	Fn.	WII		12.283			1.18	0	7.5	2
Nov. 10	Hd.	EII		12.306			0.50	0	6.5	3
11	R.	EII		12.268			0.99	0	7.5	2½
1915										
Sept. 16	Wy.	EI		12.302			0.74	0	7.0	3
22	Wy.	EI		.. ..			1.07	0	...	3
24	Hd.	EI		12.291			1.07	0	6.5	3

				h m s	° ′ ″			
1915								
Oct. 9	Hd.	WI		12.298		1.45	0 7.0	3
11	Hd.	WI		12.326		1.51	D 6.5	2½
Mean	1913.79		0 54	12.294	−6 22	1.02		
	1914.01							
Corr				−0.081		−0.16		

α Sculptoris

			h m s	° ′ ″			
			0 54 16.130	−29 50 38.03			
1912							
Nov. 18	Fn.	EII	+0.153		+0.01	0 5.5	3½
19	R.	EII	+0.226		+1.21	0 ...	5
20	Fn.	EII	+0.172		−0.47	0 4.8	4
26	Hd.	WII	+0.128		+1.19	0 ...	4
29	Fn.	WII	+0.138		−0.15	0 5.0	4
1913							
Nov. 6	Fn.	EI	+0.132		+0.31	0 5.0	3
7	R.	EI	+0.182		+0.62	I 4.4	3½
17	Fn.	WI	+0.159		+0.19	0 5.0	3
22	Hd.	WI	+0.081		−0.12	0 5.5	4
Mean	1913.33		+0.152		+0.31		
Corr			−0.081		+0.03		

B. D. +68° 64

			h m s	° ′ ″			
1911							
Sept. 6	R.	WII	0 55 34.10	+68 52	26.02	0 6.5	1
11	Fn.	WII	34.09		26.43	0 6.7	2
30	R.	EII	34.13		25.82	0 7.0	1½
Oct. 4	Fn.	EII	34.03		26.25	0 7.0	2
1914							
Nov. 6	Wy.	WI	34.19		25.23	0 6.5	2
7	Hd.	WI	34.06		25.98	0 ...	3
19	Hd.	EI	34.09		25.80	0 7.0	2
21	Fn.	EI	34.06		25.79	0 7.0	2
Mean	1913.30		0 55 34.094	+68 52	25.92		
Corr			−0.081		−0.34		

43 H. Cephei

			h m s	° ′ ″				
			0 56 16.52	+85 46 29.26				
			s	″	″			
1912								
Jan. 10	Fn.	EII	....		+0.67	0 ...	..	R.
10	Fn.	EII	[−0.05]		+0.41	0 ...	..	
16	*Hd.*	*WII*	*−0.16*	*+0.39*	*+0.39*	*0* ...	*3*	
19	*Hd.*	*WII*	*−0.17*	*+1.42*	*+1.39*	*0* ...	*3*	
20	*Hd.*	*WII*	*−0.48*	*+0.04*	*+0.01*	*0* ...	*2*	
23	*R.*	*EII*	*+0.26*	*−0.39*	*−0.39*	*0* ...	..	
24	*Hd.*	*EII*	*−0.15*	*+0.08*	*+0.01*	*0* ...	*3*	
27	*Fn.*	*EII*	*+0.32*	*−0.73*	*−0.77*	*I* ...	*3*	
Feb. 4	*Fn.*	*WII*	*+0.15*	....	....	*0* ...	*4½*	
6	*Fn.*	*EII*	*−0.45*	....	....	*0* ...	*4*	
1913								
Jan. 4	Fn.	WII	....		+0.34	0 ...	3½	R.
4	Fn.	WII	+0.37		−1.53	0 ...	3½	
9	Hd.	WII	....		+0.39	I ...	2	R.
9	Hd.	WII	+0.78		−1.05	I 3.9	2	
13	Hd.	WII	....		−0.30	0 ...	2	R.
13	Hd.	WII	+0.27		−0.91	I 3.9	2	
14	Fn.	WII	....		+0.47	0 ...	1½	R.
14	Fn.	WII	+0.24		−0.26	0 5.0	2	
15	Hd.	WII	....		+0.29	0 ...	3½	R.
15	Hd.	WII	−0.18		−0.35	0 5.5	3½	
18	*R.*	*EII*	*−0.04*	*+0.35*	*+0.42*	*0* ...	*3½*	
19	*Hd.*	*EII*	....	*−0.56*	*−0.63*	*0* ...	*3*	*R.*
19	*Hd.*	*EII*	*+0.51*	*−0.08*	*−0.15*	*0* ...	*3*	
21	*Fn.*	*EII*	....	*−0.26*	*−0.43*	*0* ...	*2*	*R.*
21	*Fn.*	*EII*	*+0.20*	*+0.44*	*+0.27*	*0* ...	*2*	
Dec. 30	Wy.	WI	+0.42		+0.66	0 ...	3	
1914								
Jan. 5	R.	EI	+0.40		−0.06	I 3.9	2	
6	Fn.	EI	....		+0.56	0 ...	2½	R.
6	Fn.	EI	−0.16		+0.16	0 4.5	2½	
1914								
Jan. 8	R.	EI	+0.18		−0.20	0 5.5	3	
12	R.	EI	+0.42		−0.74	0 ...	3	
14	Hd.	EI	....		−0.44	0 ...	3	R.
14	Hd.	EI	−0.08		+0.33	I 4.4	2	
15	R.	EI	....		+0.46	I ...	3	R.
15	R.	EI	+0.51		+0.12	I 4.4	3	
22	*Hd.*	*WI*	*+0.24*	*−0.09*	*−0.12*	*0* ...	*2*	
26	*R.*	*WI*	*−0.41*	....	....	*0* ...	..	
Dec. 22	Wy.	WI	....		+0.51	0 ...	3½	R.
22	Wy.	WI	−0.30		+0.09	I 4.9	3	
31	Fn.	EI	+0.72		−0.77	0 ...	2	
1915								
Jan. 2	An.	EI	[−0.24]		+1.11	I ...	2½	
4	Hd.	EI	....		+0.67	0 ...	3	R.
4	Hd.	EI	+0.75		+0.27	I 4.4	2	
5	Wy.	EI	....		+0.06	0 ...	3	R.
5	Wy.	EI	+0.12		+0.46	I 4.4	3	
7	Hd.	EI	+1.08		−0.22	I 3.9	3	
8	Wy.	EI	....		+0.88	0 ...	3	R.
8	Wy.	EI	+0.28		+0.33	I 3.9	2½	
9	An.	EI	....		+0.82	0 ...	3½	R.
9	An.	EI	[+0.28]		+0.01	I 3.4	3	
13	An.	WI	....		+0.66	0 ...	3	R.
13	An.	WI	[+0.09]		+0.45	I 4.9	2½	
15	*Fn.*	*WI*	....	*+0.37*	*+0.52*	*0* ...	*2½*	*R.*
15	*Fn.*	*WI*	*+0.27*	*−0.26*	*−0.11*	*0* ...	*2½*	
Dec. 21	Fn.	WI	....		+0.59	0 ...	2½	R.
21	Fn.	WI	+0.06		+0.05	0 4.5	2½	
23	Wy.	WI	+0.06		−0.28	0 ...	4	
27	Wy.	WI	−0.26		+0.09	0 5.5	4	
1916								
Jan. 3	Hd.	EI	+0.74		+0.31	I 4.4	3	
4	Fn.	EI	....		−0.21	0 ...	3	R.
4	Fn.	EI	+0.32		−0.01	0 ...	3	
8	Hd.	EI	+0.11		+0.17	I 4.4	3	
14	Wy.	EI	+0.52		−0.71	0 ...	3	
18	*Hd.*	*EI*	*+0.27*	*+0.45*	*+0.45*	*0* ...	*3*	
19	*Wy.*	*EI*	*+0.02*	*+0.57*	*+0.62*	*0* ...	*3*	
24	*Hd.*	*EI*	*−0.17*	*+0.03*	*0.00*	*0* ...	*1½*	
Feb. 3	*Wy.*	*EI*	*−0.89*	*+0.84*	*+0.62*	*0* ...	*3½*	
Nov. 7	Wy.	EI	−0.08		+0.90	I 4.4	3	
16	Wy.	WI	+0.54		−0.22	I 4.4	2½	
Dec. 7	Fn.	EI	+0.14		+1.30	0 ...	3	
12	Fn.	EI	−0.04		+0.63	0 5.0	3	
14	Fn.	EI	+0.20		+0.56	0 ...	2½	
19	Hd.	WI	+0.46		+0.66	0 ...	3	
26	Fn.	WI	−0.02		−0.23	0 5.0	3	
28	Fn.	WI	−0.35		....	0 5.0	3½	
1917								
Jan. 18	*Fn.*	*EI*	*+0.43*	*−0.77*	*−0.77*	*0* ...	*4½*	
Dec. 6	Fn.	WII	−0.05		−0.13	0 4.5	2	
20	Hd.	EII	+0.18		−0.08	I 3.9	3	
27	Fn.	EII	−0.26		−0.10	0 ...	2½	
Mean	1915.41		+0.22		+0.03			
	1915.25							
Corr			−0.08		−0.39			

43 H. Cephei s. p.

			h m s	° ′ ″				
			0 56 16.45	+85 46 29.26				
			s	″	″			
1912								
Jan. 9	Fn.	EII	....		−1.53	0 ...	..	R.
9	Fn.	EII	−0.61		−0.49	0 ...	..	
12	Fn.	WII	+0.04		....	0 ...	..	
15	Hd.	WII	+0.24		−1.50	0 ...	4	
19	Hd.	WII	−0.06		−0.20	0 ...	2	
21	R.	WII	....		−1.15	0 ...	5	
22	R.	EII	....		−1.26	0 ...	5	R.
22	R.	EII	−0.28		−0.90	0 ...	5	
24	Hd.	EII	−0.08		−1.39	I 3.9	2	
Feb. 2	Fn.	WII	....		−0.19	0 ...	..	R.
2	Fn.	WII	−0.07		−0.98	0 ...	2½	
6	Fn.	EII	....		−0.88	0 ...	2½	R.
6	Fn.	EII	+0.19		−0.41	0 ...	2½	
1913								
Jan. 1	Hd.	WII	....		−0.29	0 ...	3½	R.

				s	"	"				
1913										
Jan.	1	Hd.	WII	+0.04		−0.40	I	3.9	3	
	3	R.	WII	----		−0.19	I	---	2½	R.
	3	R.	WII	+0.40		−0.81	I	4.4	2½	
	8	Hd.	WII	+0.08		+0.27	I	3.9	2	
	12	Fn.	WII	----		−0.16	0	---	3	R.
	12	Fn.	WII	−0.47		−0.61	0	5.0	2	
	13	Hd.	WII	----		−0.72	0	---	3	R.
	13	Hd.	WII	−0.08		−0.38	I	4.4	3	
	14	R.	WII	----		−0.55	I	---	1½	R.
	14	R.	WII	+0.20		−0.10	I	4.4	1½	
	18	R.	EII	----		−0.51	I	---	2	R.
	18	R.	EII	−0.09		−1.24	I	4.4	2	
	19	Fn.	EII	----		−0.42	0	---	3½	R.
	19	Fn.	EII	−0.51		−0.80	0	---	3½	
	21	R.	EII	----		−0.33	I	---	2	R.
	21	R.	EII	+0.03		−0.72	I	4.4	2	
1914										
Jan.	5	Hd.	EI	----		+0.36	0	---	3	R.
	5	Hd.	EI	+0.61		+0.07	I	4.4	2	
	8	Hd.	EI	+0.07		−0.13	0	---	2	
	16	R.	EI	+0.36		−0.82	0	---	5	
	17	Wy.	WI	−0.32		−0.52	0	5.0	3	
	21	Fn.	WI	−0.03		−0.28	0	---	3	
	26	Wy.	WI	−0.40		−0.43	0	---	--	
Dec.	22	Fn.	WI	----		−1.04	0	---	3½	R.
	22	Fn.	WI	+0.02		−1.63	I	4.9	3	
	25	Fn.	WI	−0.03		----	0	---	3½	
	27	Wy.	WI	----		−1.40	0	---	3½	R.
	27	Wy.	WI	+0.09		−0.74	0	5.5	3½	
1915										
Jan.	4	An.	EI	----		−0.23	0	---	3	R.
	4	An.	EI	[+1.49]		−1.83	0	---	2	
	7	An.	EI	----		−0.46	0	---	3	R.
	7	An.	EI	[+1.01]		−0.52	I	4.9	3	
	8	Hd.	EI	----		−0.77	0	---	2½	R.
	8	Hd.	EI	+0.62		−0.73	0	---	2½	
	9	Wy.	EI	----		−0.55	0	---	3	R.
	9	Wy.	EI	+0.53		−0.60	0	5.0	2½	
	13	Fn.	WI	----		−1.01	0	---	3	R.
	13	Fn.	WI	−0.02		+0.31	0	5.0	2½	
	14	An.	WI	----		−1.42	I	---	3	R.
	14	An.	WI	[−0.26]		−0.65	I	4.4	3	
Dec.	22	Fn.	WI	----		−0.67	0	---	2½	R.
	22	Fn.	WI	+0.20		−1.39	0	4.5	3	
	23	Hd.	WI	0.00		−0.73	I	---	4	
1916										
Jan.	3	Wy.	EI	+0.20		−1.22	I	4.4	3	
	7	Wy.	EI	+0.52		−0.92	I	3.9	3	
	8	Fn.	EI	+0.22		−1.23	0	5.0	3	
	14	Hd.	EI	+0.28		−1.42	I	4.4	2	
	20	Wy.	EI	−0.19		−1.14	0	---	3½	
	25	Hd.	EI	−0.04		----	0	---	3	
Apr.	15	Hd.–Fn.	EI	----		−0.73	0	---	2	R.
	18	Hd.–Fn.	EI	----		−0.45	I	4.4	3	
	19	Hd.–Fn.	WI	----		−0.72	0	---	3	
	20	Hd.–Fn.	WI	----		−0.16	0	---	3½	R.
June	1	Fn.	EI	−0.48		[+1.47][1]	0	5.0	3	
	2	Hd.	EI	+0.11		−0.58	0	---	2	
	5	Hd.	EI	−0.31		−0.77	0	---	3	
	12	*Wy.*	*EI*	*+0.16*	*−0.58*	*−0.64*	*0*	---	*3*	
	13	*Fn.*	*EI*	*+0.06*	*−1.01*	*−1.08*	*0*	---	*2½*	
Nov.	*6*	*Wy.*	*EI*	*+0.66*	*−0.37*	*−0.18*	*0*	---	*3½*	
Dec.	*6*	*Fn.*	*EI*	*+0.01*	*−1.43*	*−1.49*	*0*	---	*3*	
	7	*Hd.*	*EI*	*+0.89*	*−0.94*	*−0.88*	*0*	---	*2*	
	13	*Fn.*	*EI*	*+0.23*	*−0.31*	*−0.24*	*0*	---	*3*	
	17	*Fn.*	*EI*	*+0.05*	----	----	*0*	---	*3*	
	25	Fn.	WI	−0.12		−1.97	0	5.0	2½	
1917										
Jan.	18	Fn.	EI	−0.19		−0.55	0	5.0	3	
Nov.	*26*	*Wy.*	*WII*	----	*−0.45*	*−0.24*	*0*	---	*3½*	
Dec.	*20*	*Wy.*	*EII*	*+0.53*	*−0.51*	*−0.48*	*0*	---	*3½*	
	23	Fn.	EII	+0.48		−1.33	0	---	3	
	26	Fn.	EII	+0.48		−1.35	0	---	3	
Mean			1914.44	+0.04		−0.78				
			1914.47							
Corr				−0.08		+0.44				

[1] Bisection time uncertain.

Lalande 1787

				h	m	s	°	′	″			
1911												
Sept.	20	R.	WII	0	57	10.778	−16	44	53.15	0	6.0	2½
Oct.	11	Hd.	WII			10.721			51.95	0	6.5	3
Nov.	3	Hd.	EII			10.769			52.58	0	6.5	2½
	7	R.	EII			10.741			52.05	0	6.0	2½
1914												
Nov.	4	Hd.	WI			10.785			52.30	0	6.5	3
	5	Fn.	WI			10.810			52.05	0	---	3
	23	Fn.	EI			10.749			52.50	0	7.0	3
	26	Wy.	EI			10.774			53.48	0	5.0	3
Dec.	30	An.	EI			10.699			53.40	0	7.5	3½
Mean			1913.52	0	57	10.758	−16	44	52.61			
Corr						−0.081			−0.10			

σ Sculptoris

				h	m	s	°	′	″			
1912												
Sept.	10	R.	EII	0	58	8.707	−32	2	11.79	0	---	5
	12	R.	WII			8.660			11.75	0	6.5	2½
	30	R.	EII			8.718			10.69	0	---	3
Oct.	7	R.	WII			8.538			11.65	0	6.0	2½
1913												
Dec.	11	Fn.	EI			8.721			11.59	0	6.5	3½
	12	R.	EI			8.758			13.41	0	---	5
	15	Fn.	WI			8.626			11.97	0	6.0	3
	19	R.	WI			8.702			10.19	0	6.0	2½
Mean			1913.34	0	58	8.679	−32	2	11.63			
Corr						−0.081			+0.07			

ε Piscium

				h	m	s	°	′	″			
				0	58	16.235	+7	24	20.87			
1911												
Oct.	12	R.	WII			+0.034			+0.72	I	4.4	1½
	13	Hd.	WII			+0.027			+0.39	I	3.9	2
Nov.	15	Fn.	EII			+0.017			−1.33	--	---	3½
	16	R.	EII			+0.018			+0.54	I	4.4	1½
1914												
Oct.	21	An.	EI			+0.038			+0.04	I	4.9	2½
	30	Hd.	EI			+0.029			+0.23	I	3.9	2½
Nov.	2	Fn.	WI			+0.027			+0.91	0	5.0	2
	3	An.	WI			+0.006			+0.37	I	4.9	3
Mean			1913.33			+0.024			+0.23			
Corr						−0.081			−0.20			

B. D. +51° 220

				h	m	s	°	′	″			
1912												
Oct.	1	R.	EII	0	58	44.580	+52	1	13.76	0	5.5	2
	2	R.	EII			44.619			14.40	0	5.5	1½
	10	R.	WII			44.622			13.76	0	6.5	3
	14	Fn.	WII			44.628			14.05	0	6.3	--
1913												
Dec.	5	Fn.	EI			44.558			13.84	0	5.5	2½
	6	Hd.	EI			44.624			-----	0	---	--
	9	R.	EI			44.622			12.66	0	5.5	2
	16	R.	WI			44.632			14.52	0	---	3
	18	Fn.	WI			44.645			14.76	0	6.0	2½
Mean			1913.42	0	58	44.614	+52	1	13.97			
			1913.36									
Corr						−0.081			−0.29			

Lalande 1854

				h	m	s	°	′	″			
1912												
Oct.	4	R.	EII	0	59	32.335	+29	10	43.13	0	6.0	1
	5	R.	EII			32.364			44.25	0	6.0	3
	15	R.	WII			32.358			43.68	0	5.5	1½
	16	Fn.	WII			32.276			42.40	0	6.4	2½

			h	m	s	°	′	″			
1913											
Nov. 6	Fn.	EI			32.332			42.77	0	6.5	1½
7	R.	EI			32.341			42.75	0	5.5	2
10	Fn.	WI			32.353			43.02	0	6.5	2½
17	Fn.	WI			32.328			43.14	0	6.5	2
Mean	1913.32		0	59	32.336	+29	10	43.14			
Corr					−0.081			−0.25			

Lalande 1947

			h	m	s	°	′	″			
1911											
Oct. 16	Fn.	WII	1	1	46.269	−24	28	23.94	0	6.5	2½
18	Fn.	WII			46.257			23.52	0	6.3	3½
Nov. 10	Hd.	EII			46.269			24.51	0	6.5	4
13	Fn.	EII			46.242			[27.20][1]	0	---	--
1915											
Sept. 9	Wy.	WI			46.233			24.70	0	6.5	3½
16	Wy.	EI			46.251			24.17	0	6.5	3
22	Wy.	EI			46.274			24.62	0	6.0	3
Oct. 9	Hd.	WI			46.287			24.39	0	6.0	3½
Mean	1913.78		1	1	46.260	−24	28	24.26			
	1914.05										
Corr					−0.081			−0.04			

μ Cassiopeiæ

			h	m	s	°	′	″			
			1	2	17.922	+54	28	39.54			
1911											
Oct. 23	R.	WII			+0.048			+0.72	0	5.5	1½
25	Hd.	WII			+0.135			+0.10	0	5.2	2
Nov. 3	Hd.	EII			+0.069			−0.67	0	5.5	2½
7	R.	EII			+0.152			−0.14	I	4.4	1½
1915											
Oct. 25	Hd.	WI			+0.096			−0.09	I	4.9	2
27	Wy.	WI			+0.130			−0.46	0	5.5	3
28	Hd.	EI			+0.135			−0.57	I	4.9	2½
29	Fn.	EI			+0.142			−0.93	0	5.5	2½
Mean	1913.83				+0.113			−0.26			
Corr					−0.081			−0.30			

B. D.+38° 194

			h	m	s	°	′	″			
1916											
Nov. 3	Fn.	EI	1	2	----	+38	46	19.11	0	---	2
20	Fn.	WI			----			18.82	0	8.0	2
24	Fn.	WI			----			19.28	0	7.5	2½
Dec. 7	Fn.	EI			----			18.79	0	8.0	2
Mean	1916.89				----	+38	46	19.00			
Corr			1	2	----			−0.27			

Bradley 131

			h	m	s	°	′	″			
1912											
Oct. 27	R.	EII	1	3	2.342	+31	31	55.27	0	6.5	2
28	Fn.	EII			2.362			54.91	0	6.6	2½
Nov. 6	R.	WII			2.329			55.05	0	---	2½
9	Fn.	WII			2.355			56.02	0	6.8	1½
1913											
Nov. 22	Hd.	WI			2.389			55.53	0	6.0	3
24	Fn.	WI			2.400			55.24	0	6.5	2
Dec. 3	Hd.	EI			2.329			55.59	0	---	2
4	Hd.	EI			2.318			55.00	0	7.0	3
Mean	1913.37		1	3	2.353	+31	31	55.33			
Corr					−0.081			−0.25			

Bradley 132

			h	m	s	°	′	″			
1911											
Oct. 26	Fn.	WII	1	3	7.390	+20	15	38.32	0	6.3	2
Nov. 21	Fn.	EII			7.361			38.71	0	5.6	2
22	Hd.	EII			7.374			38.94	0	5.8	1
25	Hd.	WII			7.381			38.42	0	5.8	2
1915											
Sept. 24	Hd.	EI			7.394			38.20	0	6.0	3
27	Wy.	EI			7.422			38.02	0	6.5	3
Oct. 11	Hd.	WI			7.372			38.50	0	6.0	2
12	Fn.	WI			7.429			38.43	0	6.0	2½
Mean	1913.82		1	3	7.390	+20	15	38.44			
Corr					−0.081			−0.23			

Bradley 135

			h	m	s	°	′	″			
1912											
Aug. 31	R.	WII	1	3	14.727	−10	16	0.70	0	6.0	3
Sept. 10	R.	EII			14.745			0.04	0	---	4
12	R.	WII			14.730			0.63	0	5.5	1
30	R.	EII			14.778			0.77	0	6.0	3
1913											
Dec. 5	Fn.	EI			14.775			0.60	0	6.0	3
9	R.	EI			14.746			1.28	0	5.5	2½
15	Fn.	WI			14.760			1.24	0	6.0	2½
18	Fn.	WI			14.734			1.23	0	6.0	3½
Mean	1913.32		1	3	14.749	−10	16	0.81			
Corr					−0.081			−0.14			

Weisse$_1$ 0 1075

			h	m	s	°	′	″			
1911											
Sept. 20	R.	WII	1	3	39.411	+9	25	39.81	0	6.5	1½
30	R.	EII			39.512			39.73	0	6.5	2
Oct. 4	Fn.	EII			39.468			38.69	0	6.7	2
11	Hd.	WII			39.428			40.02	0	6.5	2
1915											
Sept. 28	Hd.	EI			39.433			39.86	0	6.5	2½
Oct. 30	Wy.	EI			39.411			39.98	0	6.5	3
Nov. 9	Hd.	WI			39.439			40.12	0	6.5	2½
10	Fn.	WI			39.445			40.15	0	7.5	2½
17	Wy.	WI			39.431			39.54	0	7.0	2½
Mean	1914.02		1	3	39.442	+9	25	39.77			
Corr					−0.081			−0.21			

η Ceti

			h	m	s	°	′	″			
			1	4	3.788	−10	39	33.04			
1912											
Oct. 30	Fn.	EII			+0.072			+0.36	I	4.1	3
31	Hd.	EII			+0.028			−0.25	0	---	3
Nov. 5	Fn.	WII			+0.107			−0.11	0	---	2½
10	R.	EII			+0.080			−0.11	I	3.9	4½
25	Fn.	WII			+0.067			−0.49	I	3.3	3½
1913											
Dec. 11	Fn.	EI			+0.041			−0.59	I	3.9	3
12	R.	EI			+0.048			−1.11	I	2.9	3
19	R.	WI			+0.069			−0.36	I	2.9	2
20	Hd.	WI			+0.070			−0.67	I	---	2
Mean	1913.34				+0.065			−0.37			
Corr					−0.081			−0.14			

44 H. Cephei

			h	m	s	°	′	″			
1912											
Sept. 17	R.	WII	1	4	27.79	+79	11	43.01	0	6.0	3
Oct. 1	R.	EII			27.66			42.73	0	6.0	3
4	R.	EII			27.73			43.25	0	5.5	1
9	R.	WII			27.65			42.86	0	---	3
1913											
Nov. 3	Fn.	EI			27.71			42.33	0	6.0	3
4	R.	EI			27.72			42.30	0	5.5	3½
19	Hd.	WI			27.72			42.03	0	6.0	3
21	R.	WI			27.63			42.55	0	5.5	2
Mean	1913.30		1	4	27.701	+79	11	42.63			
Corr					−0.081			−0.37			

[1] Micrometer readings doubtful.

44 H. Cephei s. p.

				h	m	s	°	′	″				
1912													
Apr.	9	Hd.	WII	1	4	27.66	+79	11	41.42	0	5.5	4	
	10	R.	WII			27.73			42.27	0	6.5	4	
	19	Hd.	EII			27.42			42.58	0	6.0	3	
	27	R.	EII			27.69			42.45	0	6.0	3	½
1915													
May	19	Fn.	EI			27.66			42.21	0	6.0	2	½
	21	Wy.	WI			27.66			42.35	0	---	4	
	31	Wy.	WI			27.95			42.77	0	6.5	3	
June	7	Fn.	EI			27.59			42.61	0	6.5	3	
Mean		1913.85		1	4	27.670	+79	11	42.33				
Corr						−0.081			+0.49				

β Andromedæ

				h	m	s	°	′	″				
				1	4	41.381	+35	8	36.37				
						s	″		″				
1911													
May	*22*	*Hd.*	*EII*			*+0.082*	*+0.22*		*+0.22*	0	---	--	
	24	*Fn.*	*EII*			*+0.068*	*+0.29*		*+0.29*	0	---	--	
	28	*Fn.*	*WII*			-----	*+0.06*		*+0.05*	*0*	---	--	
	31	*Fn.*	*WII*			*+0.084*	*+0.39*		*+0.39*	*0*	---	--	
June	*1*	*Hd.*	*WII*			*+0.093*	----		----	*0*	---	--	
	8	*Hd.*	*WII*			*−0.040*	*+0.27*		*+0.26*	*0*	---	--	
	14	*Fn.*	*EII*			*+0.014*	*+0.57*		*+0.56*	*0*	---	--	
	16	*T.*	*EII*			-----	*0.00*		*−0.01*	*0*	---	--	
	19	*Hd.*	*EII*			*+0.020*	*+1.05*		*+0.99*	*0*	---	--	
	21	*Fn*	*EII*			*+0.039*	*+0.39*		*+0.37*	*0*	---	--	
July	*5*	*Fn.*	*EII*			*−0.032*	*−0.18*		*−0.19*	*0*	---	--	
	12	*Fn.*	*WII*			-----	*+0.69*		*+0.69*	*0*	---	--	
	18	*R.*	*EII*			*+0.069*	*−0.22*		*−0.23*	*I*	---	*2*	
Nov.	16	R.	EII			+0.052			----	II	2.6	1	
	18	R.	EII			+0.068			----	II	2.6	--	
	19	Fn.	EII			+0.039			+0.08	I	1.8	2	
	30	R.	WII			+0.056			−0.72	II	2.1	2	½
Dec.	1	R.	WII			+0.073			+0.28	I	---	2	
	2	R.	WII			−0.022			----	II	2.6	2	½
	19	Hd.	EII			+0.045			+0.79	II	2.1	2	
1912													
Jan.	9	Fn.	EII			+0.052			----	--	---	--	
	10	Fn.	EII			+0.050			----	--	---	--	
Apr.	*24*	*Fn.*	*EII*			*+0.056*	*−0.15*		*−0.14*	*0*	---	*3*	½
May	*2*	*Hd.*	*EII*			*+0.024*	*+0.21*		*+0.22*	*0*	---	--	
	9	*Hd.*	*WII*			*+0.038*	*−0.33*		*−0.32*	*0*	---	*3*	
	16	*R.*	*EII*			-----	*+0.38*		*+0.38*	*0*	---	--	
	17	*Hd.*	*EII*			*−0.012*	*+0.26*		*+0.26*	*0*	---	*3*	
	21	*R.*	*WII*			-----	*−0.72*		*−0.72*	*0*	---	*5*	
	26	*Hd.*	*EII*			*+0.056*	*−0.42*		*−0.43*	*0*	---	*3*	½
	27	*Hd.*	*WII*			*+0.054*	*−0.89*		*−0.90*	*0*	---	--	
	30	*Hd.*	*WII*			*+0.088*	*−0.70*		*−0.70*	*0*	---	*3*	½
	31	*R.*	*WII*			*+0.094*	*−0.74*		*−0.76*	*0*	---	--	
Aug.	27	R.	WII			+0.021			+0.20	II	2.6	2	
Sept.	19	R.	WII			+0.052			+0.35	II	2.1	2	½
Oct.	2	R.	EII			−0.009			+0.48	II	2.1	1	
	5	R.	EII			+0.024			----	II	2.1	1	½
	7	R.	WII			+0.007			+0.48	II	2.1	2	
	10	R.	WII			+0.045			+0.51	II	2.6	2	
	14	Fn.	WII			−0.003			−0.08	I	1.8	2	
	29	R.	EII			+0.039			+0.53	II	2.1	3	
Nov.	1	Fn.	WII			+0.023			−0.49	0	---	3	½
	4	R.	WII			+0.046			−0.15	I	---	3	½
	11	R.	EII			−0.008			+0.49	II	2.6	3	½
	12	R.	EII			+0.072			+0.70	II	2.6	2	
	18	Fn.	EII			+0.053			+0.69	II	1.7	1	½
	19	R.	EII			−0.001			+0.60	II	2.1	3	½
	20	Fn.	EII			+0.045			+0.45	II	2.1	2	½
	22	Fn.	EII			+0.032			+0.09	I	2.4	2	½
	23	Hd.	EII			+0.035			+0.02	0	---	2	
	30	Hd.	WII			+0.026			−0.01	II	2.1	2	
Dec.	14	R.	EII			+0.038			+0.69	II	2.1	2	½
1913													
Apr.	*16*	*R.*	*WII*			*+0.033*	*−0.59*		*−0.58*	*0*	---	*3*	
	17	*Fn.*	*WII*			*−0.080*	*−0.19*		*−0.18*	*0*	---	*3*	
	30	*Hd.*	*EII*			*+0.034*	*+0.23*		*+0.22*	*0*	---	--	
May	*1*	*Fn.*	*EII*			*+0.022*	----		----	*0*	---	--	
	2	*R.*	*EII*			*+0.037*	----		----	*0*	---	--	

				s	″	″				
1913										
May	*14*	*Hd.*	*WII*	*−0.040*	----	----	*0*	---	*3*	
	18	*Hd.*	*WII*	*−0.005*	*−0.16*	*−0.14*	*0*	---	*3*	
	25	*Hd.*	*WII*	-----	*−0.11*	*−0.10*	*0*	---	*3*	
	28	*Hd.*	*WII*	*+0.057*	*+0.77*	*+0.77*	*0*	--	*3*	
	30	*R.*	*WII*	*+0.051*	*−0.30*	*−0.30*	*0*	---	--	
June	*1*	*Hd.*	*WII*	*+0.050*	*−0.35*	*−0.35*	*0*	---	*2*	
	2	*Fn.*	*WII*	-----	*−0.16*	*−0.17*	*0*	---	*3*	
	4	*Hd.*	*WII*	*+0.106*	*−0.47*	*−0.48*	*0*	---	*3*	½
	5	*Fn.*	*WII*	*+0.057*	*+1.02*	*+1.01*	*0*	---	*3*	½
	9	*R.*	*WII*	*+0.053*	*+0.04*	*+0.03*	*0*	---	*3*	
	11	*Hd.*	*EII*	-----	*+0.66*	*+0.65*	*0*	---	*2*	
	12	*Fn.*	*EII*	*+0.137*	*+0.63*	*+0.62*	*0*	---	*3*	½
	15	*Hd.*	*EII*	-----	*+0.40*	*+0.38*	*0*	---	*3*	
Nov.	7	R.	EI	+0.006		−0.74	II	1.6	2	
	10	Fn.	WI	+0.057		+0.64	I	2.4	2	½
	11	R.	WI	+0.034		----	I	---	2	
	13	Fn.	WI	+0.055		−0.14	I	2.4	2	
	20	Fn.	WI	+0.017		+0.26	I	1.9	2	½
Dec.	6	Hd.	EI	+0.010		+0.05	I	---	2	
	16	R.	WI	+0.020		+0.53	I	---	3	
	22	Fn.	WI	+0.085		+1.10	I	2.4	2	½
	29	Fn.	WI	+0.039		+0.33	I	2.4	1	½
1914										
Jan.	5	R.	EI	+0.033		−0.76	II	2.1	2	½
	6	Fn.	EI	+0.052		−0.12	II	2.6	2	
	8	R.	EI	+0.018		−0.60	II	2.1	2	
	10	Hd.	EI	+0.014		+0.46	0	---	3	
Apr.	*12*	*Fn.*	*EI*	*+0.057*	*−0.08*	*−0.06*	*0*	---	*3*	½
	17	*Hd.*	*EI*	*+0.062*	*−0.57*	*−0.56*	*0*	---	*3*	
	27	*Hd.*	*EI*	*+0.072*	*−0.11*	*−0.09*	*0*	---	*3*	½
May	*1*	*Fn.*	*WI*	*−0.071*	*−0.40*	*−0.39*	*0*	---	*3*	½
	8	*Fn.*	*WI*	*+0.028*	*−0.19*	*−0.17*	*0*	---	*3*	½
	10	*Hd.*	*WI*	*+0.001*	*+0.43*	*+0.44*	*0*	---	*3*	½
	13	*Hd.*	*WI*	-----	*−0.05*	*−0.04*	*0*	---	*2*	½
	14	*Wy.*	*WI*	*+0.069*	*+0.52*	*+0.54*	*0*	---	*3*	½
	15	*Fn.*	*WI*	*+0.030*	*−0.08*	*−0.07*	*0*	---	*3*	½
	17	*Fn.*	*WI*	*−0.001*	*−0.11*	*−0.11*	*0*	---	*3*	½
	18	*Wy.*	*WI*	*+0.022*	*+0.25*	*+0.25*	*0*	---	*3*	
	19	*Hd.*	*WI*	-----	*+0.26*	*+0.26*	*0*	---	*3*	
	20	*Fn.*	*WI*	*+0.039*	*−0.15*	*−0.15*	*0*	---	*3*	½
	21	*Wy.*	*WI*	-----	*+0.51*	*+0.51*	*0*	---	*4*	
	22	*Hd.*	*EI*	*+0.013*	*−0.04*	*−0.03*	*0*	---	*3*	
	26	*Hd.*	*EI*	-----	*−0.91*	*−0.91*	*0*	---	*3*	
	31	*Hd.*	*EI*	-----	*−0.13*	*−0.13*	*0*	---	*3*	
June	*1*	*Fn.*	*EI*	*+0.067*	*+0.23*	*+0.24*	*0*	---	*3*	½
	2	*Wy.*	*EI*	*−0.014*	*−0.12*	*−0.14*	*0*	---	*3*	
	4	*Fn.*	*EI*	*−0.002*	*−0.08*	*−0.07*	*0*	---	*3*	½
	5	*Wy.*	*EI*	*+0.070*	*−0.36*	*−0.35*	*0*	---	*4*	
	7	*Fn.*	*EI*	*+0.070*	*−0.01*	*−0.02*	*0*	---	*3*	
	11	*Hd.*	*EI*	-----	*+0.06*	*+0.05*	*0*	---	*3*	
	12	*Wy.*	*EI*	*+0.022*	*−0.19*	*−0.20*	*0*	---	*3*	
	14	*Fn.*	*EI*	*−0.027*	*+0.03*	*+0.02*	*0*	---	*3*	
	15	*Hd.*	*EI*	*+0.072*	*+0.61*	*+0.61*	*0*	---	*3*	
	16	*Wy.*	*EI*	*−0.013*	*−0.15*	*−0.16*	*I*	---	*3*	½
	17	*Fn.*	*EI*	-----	*+0.19*	*+0.17*	*0*	---	*3*	
	19	*Wy.*	*WI*	*−0.042*	*−0.05*	*−0.04*	*I*	---	*3*	½
	30	*Wy.*	*WI*	-----	*+0.68*	*+0.67*	*0*	---	*3*	
Sept.	19	Wy.	EI	+0.009		−0.03	II	2.1	2	
Oct.	21	An.	EI	−0.009		+0.36	II	3.6	2	
	23	Fn.	EI	+0.014		−0.74	I	1.9	2	
	28	An.	EI	−0.015		+0.19	II	3.9	2	½
	30	Hd.	EI	+0.038		−0.39	II	2.9	2	
	31	An.	EI	−0.008		+0.59	II	2.6	2	½
Nov.	2	Fn.	WI	+0.033		+0.29	I	1.9	2	
	3	An.	WI	+0.062		+0.96	II	3.1	3	
	4	Hd.	WI	+0.043		----	II	2.6	2	½
	5	Fn.	WI	+0.054		+1.86	I	1.9	2	
	6	Wy.	WI	+0.045		+0.73	II	1.6	2	
	7	Hd.	WI	+0.019		+0.86	I	2.9	3	
	9	Hd.	WI	+0.048		+0.21	II	2.1	2	
	10	Fn.	WI	−0.015		----	I	1.9	2	
	11	An.	WI	+0.005		+0.72	II	2.1	2	
	13	Fn.	WI	+0.027		----	I	2.4	3	½
	18	Fn.	EI	+0.014		----	I	2.9	1	½
	19	Hd.	EI	+0.051		----	II	2.1	2	
	20	Wy.	EI	+0.103		----	I	3.4	3	½
	21	Fn.	EI	+0.014		----	I	1.9	2	
	23	Fn.	EI	+0.021		----	I	1.9	2	

				s	″	″			
1914									
Nov.	25	Wy.	EI	+0.045		----	II	2.1	3
	26	Wy.	EI	+0.046		----	I	3.4	3
	28	Wy.	EI	+0.042		----	I	...	2½
Dec.	16	An.	WI	+0.069		----	II	3.6	2
	21	Fn.	WI	+0.023		----	I	2.9	3
	22	Wy.	WI	+0.028		+1.09	I	2.9	3
	23	Hd.	WI	+0.042		+0.62	II	2.6	2
	30	An.	EI	+0.066		----	II	2.6	3
1915									
Jan.	4	Hd.	EI	+0.057		−0.44	II	2.1	2
	10	Wy.	WI	+0.005		+1.06	II	1.6	2
Mar.	*31*	*An.*	*EI*	*+0.130*	----	----	*0*	...	*3½*
Apr.	*14*	*Hd.*	*WI*	*−0.027*	*−0.39*	*−0.37*	*0*	...	*3*
	20	*An.*	*WI*	*−0.018*	*+0.08*	*+0.10*	*0*	...	*3½*
	29	*Wy.*	*EI*	*+0.102*	*+0.19*	*+0.20*	*0*	...	*4*
	30	*Hd.*	*EI*	-----	*+0.19*	*+0.19*	*0*	...	*3½*
May	*5*	*Fn.*	*EI*	*−0.011*	----	----	*0*	...	*4*
	8	*Wy.*	*EI*	*+0.084*	----	----	*0*	...	*4*
	12	*Hd.*	*WI*	*+0.058*	*+0.20*	*+0.20*	*0*	...	*3*
	13	*Fn.*	*WI*	*+0.076*	*−0.30*	*−0.29*	*0*	...	*3½*
	17	*Wy.*	*EI*	-----	*+0.58*	*+0.59*	*0*	...	*3½*
	18	*Fn.*	*EI*	*+0.050*	*−0.29*	*−0.28*	*0*	...	*3*
	24	*Fn.*	*WI*	*+0.112*	*−0.08*	*−0.07*	*0*	...	*3½*
	26	*Wy.*	*WI*	-----	*−0.39*	*−0.37*	*0*	...	*3½*
June	*4*	*Hd.*	*WI*	-----	*+0.34*	*+0.33*	*0*	...	*3*
	6	*Fn.*	*EI*	*−0.083*	*+0.03*	*+0.02*	*0*	...	*4*
	7	*Hd.*	*EI*	*−0.003*	*−0.01*	*−0.01*	*0*	...	*2½*
	8	*An.*	*EI*	*+0.070*	*+0.14*	*+0.14*	*I*	...	*3*
	9	*Fn.*	*EI*	*+0.007*	*+0.51*	*+0.50*	*0*	...	*3½*
	15	*Wy.*	*WI*	-----	*+0.76*	*+0.76*	*0*	...	*3½*
Oct.	6	Hd.	WI	+0.001		----	0	...	3
Nov.	3	Hd.	EI	+0.056		+0.33	II	2.1	2
	6	Hd.	EI	+0.058		+0.41	I	...	2½
	22	Fn.	EI	+0.024		+0.07	I	...	2
	24	Hd.	EI	+0.053		+0.09	II	1.6	2
	26	Wy.	EI	+0.024		----	II	2.1	2½
	30	Fn.	EI	+0.047		+0.89	I	2.4	2
Dec.	3	Fn.	EI	+0.023		+0.36	I	...	2
	6	Fn.	WI	+0.030		+0.73	I	2.4	2½
	7	Wy.	WI	+0.005		+0.19	I	2.9	2
	9	Hd.	WI	−0.001		----	II	2.6	2
	10	Wy.	WI	+0.019		+0.81	II	2.1	2
	15	Fn.	WI	−0.010		----	I	2.4	2
1916									
Jan.	*24*	*Hd.*	*EI*	*+0.052*	----	----	*I*	...	*1*
June	*1*	*Hd.*	*EI*	*+0.056*	*+0.02*	*+0.01*	*0*	...	*3*
	5	*Wy.*	*EI*	*+0.025*	*−0.23*	*−0.23*	*0*	...	*3½*
	7	*Hd.*	*EI*	*−0.023*	----	----	*0*	...	*3*
	11	*Wy.*	*EI*	*+0.026*	*−0.28*	*−0.29*	*0*	...	*3½*
	12	*Fn.*	*EI*	*+0.034*	*+0.05*	*+0.04*	*0*	...	*3*
	19	*Hd.*	*WI*	*+0.027*	*+0.15*	*+0.15*	*0*	...	*2*
	21	*Fn.*	*WI*	*−0.031*	*−0.24*	*−0.24*	*0*	...	*3*
	22	*Hd.*	*WI*	*+0.015*	*+0.64*	*+0.64*	*I*	...	*3*
July	*20*	*Wy.*	*EI*	*+0.052*	----	----	*I*	...	*3½*
Aug.	17	Wy.	EI	+0.039		−0.43	II	1.6	2
Oct.	26	Wy.	EI	+0.013		+0.53	II	2.6	3
Nov.	7	Wy.	EI	+0.018		+0.52	II	2.1	2½
	10	Fn.	EI	+0.026		+0.49	I	2.4	2½
	27	Wy.	WI	+0.011		+0.25	II	2.6	2
Dec.	14	Fn.	EI	+0.020		−0.35	0	...	2
	19	Hd.	WI	+0.008		+0.61	I	...	2
	26	Fn.	WI	+0.004		----	I	2.4	2
	28	Fn.	WI	+0.018		----	I	1.9	3
1917									
Jan.	9	Fn.	EI	+0.031		−0.83	I	2.4	2½
	18	*Fn.*	*EI*	*+0.060*	*−0.10*	*−0.10*	*I*	...	*3½*
Mar.	*6*	*Fn.*	*WI*	*+0.083*	*+0.69*	*+0.71*	*0*	...	*3½*
	12	*Hd.*	*EI*	*+0.060*	*−0.58*	*−0.58*	*0*	...	*3½*
	15	*Wy.*	*EI*	*−0.033*	*+0.35*	*+0.36*	*0*	...	*3½*
	16	*Hd.*	*EI*	*−0.097*	*+0.31*	*+0.33*	*0*	...	*4*
	20	*Hd.*	*EI*	*+0.068*	*+0.72*	*+0.72*	*0*	...	*3½*
	22	*Fn.*	*EI*	*+0.040*	*−0.95*	*−0.95*	*0*	...	*3½*
Apr.	*22*	*Wy.*	*EI*	*−0.042*	*+0.13*	*+0.14*	*0*	...	*3½*
	26	*Hd.*	*EI*	*+0.032*	----	----	*0*	...	*3½*
May	*9*	*Fn.*	*WI*	*+0.078*	*+0.58*	*+0.58*	*0*	...	*3½*
	14	*Hd.*	*WI*	*+0.052*	*−0.10*	*−0.10*	*0*	...	*3*
	17	*Hd.*	*WI*	*−0.010*	*+0.34*	*+0.34*	*0*	...	*3½*
Oct.	15	Fn.	EII	+0.007		−0.51	I	2.4	3
1917									
Oct.	22	Hd.	EII	+0.040		−0.37	II	2.6	2
	25	Hd.	EII	+0.024		+0.24	II	2.6	2
Nov.	2	Fn.	EII	0.000		−0.01	I	2.4	2
	12	Wy.	WII	+0.006		+0.73	I	3.4	2½
	16	Fn.	WII	+0.024		----	I	1.9	2
	20	Fn.	WII	+0.034		−0.23	I	2.9	2½
	26	Hd.	WII	-----		+0.20	II	2.6	2
Dec.	6	Fn.	WII	+0.006		−0.57	I	2.4	1½
	10	Fn.	WII	+0.001		−0.54	I	2.4	1½
	20	Hd.	EII	+0.052		−0.07	II	2.6	2
	27	Fn.	EII	+0.051		−0.14	I	2.4	2
1918									
Jan.	*19*	*Wy.*	*WII*	*+0.023*	*+0.11*	*+0.12*	*II*	...	*2½*
Feb.	*11*	*Wy.*	*WII*	*−0.013*	*+0.60*	*+0.61*	*0*	...	*3*
	15	*Fn.*	*WII*	*−0.101*	*−0.67*	*−0.65*	*0*	...	*4*
	18	*Fn.*	*EII*	*+0.076*	*+0.16*	*+0.17*	*0*	...	*3½*
	21	*Fn.*	*EII*	*+0.059*	*−0.15*	*−0.14*	*0*	...	*3½*
	27	*Hd.*	*EII*	*+0.053*	*−0.10*	*−0.09*	*0*	...	*3*
Mar.	*7*	*Fn.*	*EII*	*+0.056*	*−0.47*	*−0.44*	*0*	...	*3½*
	25	*Fn.*	*WII*	*+0.086*	*−1.73*	*−1.72*	*0*	...	*3½*
Apr.	*5*	*Fn.*	*EII*	*+0.026*	*−0.87*	*−0.82*	*0*	...	*3½*
May	*1*	*Fn.*	*EII*	*+0.046*	*+0.82*	*+0.83*	*0*	...	*3½*
	5	*Fn.*	*EII*	*+0.021*	----	----	*0*	...	*3½*
	8	*Fn.*	*EII*	*+0.038*	*−0.64*	*−0.64*	*0*	...	*3½*
	14	*Fn.*	*WII*	*+0.127*	*−0.32*	*−0.30*	*0*	...	*3½*
June	*27*	*Hd.*	*WII*	-----	*+0.57*	*+0.56*	*0*	...	*3*
July	*7*	*Wy.*	*EII*	-----	*−0.42*	*−0.42*	*0*	...	*3½*
	10	*Wy.*	*EII*	*−0.024*	*−0.19*	*−0.19*	*I*	...	*3*
Mean			1914.78	+0.030		+0.23			
			1914.86						
Corr				−0.081		−0.26			

Bradley 139

				h	m	s	°	′	″			
1911												
Oct.	12	R.	WII	1	5	49.00	+64	32	27.01	0	5.5	1½
	13	Hd.	WII			48.97			26.92	0	6.0	--
Nov.	16	R.	EII			49.01			25.88	0	...	--
	18	R.	EII			49.09			25.12	0	...	--
1914												
Nov.	24	Hd.	EI			48.99			25.95	0	6.5	2½
	26	Wy.	EI			49.12			25.81	0	6.5	3½
Dec.	17	Fn.	WI			49.07			26.54	0	5.7	2
	18	Hd.	WI			48.99			25.57	0	6.0	2½
	30	An.	EI			49.08			26.43	0	7.0	3½
Mean			1913.56	1	5	49.036	+64	32	26.14			
Corr						−0.081			−0.33			

Oeltzen 1188

				h	m	s	°	′	″			
1912												
Nov.	12	R.	EII	1	5	57.423	+45	42	19.97	0	7.5	2
	16	Hd.	EII			57.439			20.59	0	6.5	2
	26	Hd.	WII			57.348			20.68	0	6.5	3
	29	Fn.	WII			57.381			20.36	0	6.7	2½
1913												
Nov.	5	Hd.	EI			57.395			19.72	0	6.5	2
	6	Fn.	EI			57.375			19.40	0	6.5	2
	11	R.	WI			57.349			21.04	0	...	2
	17	Fn.	WI			57.399			20.87	0	6.5	2
Mean			1913.38	1	5	57.389	+45	42	20.33			
Corr						−0.081			−0.28			

τ Piscium

				h	m	s	°	′	″			
				1	6	42.040	+29	36	43.27			
1911												
Oct.	16	Fn.	WII			−0.030			+0.12	I	4.5	2
	18	Fn.	WII			−0.008			+0.45	I	4.3	3
Nov.	11	R.	EII			0.000			−0.15	0	...	2
	13	Fn.	EII			+0.063			+0.25	0	...	--

			s	″			
1914							
Nov. 10	Fn.	WI	−0.008	−0.65	I	4.9	2½
13	Fn.	WI	−0.012	−0.39	0	5.0	3½
19	Hd.	EI	+0.028	−0.45	I	3.9	2
21	Fn.	EI	+0.018	+0.26	0	5.0	2
23	Fn.	EI	−0.005	----	0	5.0	2
28	Wy.	EI	+0.036	−0.12	0	---	2½
Dec. 21	Fn.	WI	−0.008	----	0	4.5	3
1915							
Nov. 16	Fn.	WI	−0.036	----	0	5.0	1½
26	Wy.	EI	+0.041	----	I	4.9	3
Dec. 6	Fn	WI	+0.012	----	0	5.0	2½
9	Hd.	WI	−0.018	----	I	4.4	2
15	Fn.	WI	−0.030	----	0	5.0	2
1916							
Dec. 12	Fn.	EI	+0.032	----	0	5.0	3
26	Fn.	WI	+0.010	----	0	5.0	2
28	Fn.	WI	+0.004	----	0	5.0	3
Mean------	1914.85		+0.005	−0.08			
	1913.53						
Corr----------			−0.081	−0.25			

Bradley 156

			h	m	s	°	′	″			
1912											
Aug. 29	R.	WII	1	8	15.945	−7	15	38.49	0	6.0	3½
31	R.	WII			15.929			38.81	0	---	4
Sept. 10	R.	EII			15.905			38.29	0	---	4
30	R.	EII			15.913			-----	0	---	--
Oct. 5	R.	EII			15.947			37.59	0	7.0	3
1913											
Nov. 22	Hd.	WI			15.851			38.05	0	6.5	2½
24	Fn.	WI			15.907			38.31	0	6.5	2½
Dec. 4	Fn.	EI			15.936			38.11	0	---	3
5	Fn.	EI			15.916			38.17	0	7.0	3½
Mean------	1913.24		1	8	15.917	−7	15	38.23			
	1913.30										
Corr----------					−0.081			−0.15			

ζ Piscium

			h	m	s	°	′	″			
			1	9	1.707	+7	5	58.58			
1911											
Oct. 23	R.	WII			−0.036			+1.03	0	5.5	2½
25	Hd.	WII			+0.018			+0.42	0	5.6	2
Nov. 2	Fn.	EII			+0.021			+0.21	0	5.2	2
3	Hd.	EII			−0.021			+0.29	0	5.5	2
1914											
Nov. 18	Fn.	EI			−0.005			+0.47	0	6.0	2
23	Fn.	EI			+0.003			+0.15	0	5.0	2
Dec. 16	An.	WI			+0.014			+0.27	I	4.4	2
17	Fn.	WI			+0.041			−0.07	0	4.5	2
Mean------	1913.38				+0.004			+0.35			
Corr----------					−0.081			−0.20			

B. D.+38° 220

			h	m	s	°	′	″			
1916											
Oct. 26	Wy.	EI	1	9	-----	+38	58	24.53	0	7.5	2½
Nov. 3	Fn.	EI			-----			24.64	0	8.0	2
27	Wy.	WI			-----			24.95	0	7.5	2
Dec. 19	Hd.	WI			-----			25.11	0	---	2
Mean------	1916.88		1	9	-----	+38	58	24.81			
Corr----------					-----			−0.27			

Bradley 165

			h	m	s	°	′	″			
1912											
Oct. 10	R.	WII	1	10	13.441	−1	27	18.15	0	.5	2½
15	R.	WII			13.442			17.63	0	6.0	1
28	Fn.	EII			13.473			18.06	0	6.3	3½
29	R.	EII			13.489			18.12	0	6.0	5
1913											
Nov. 7	R.	EI			13.477			16.47	0	5.5	2½
19	Hd.	WI			13.439			18.24	0	6.0	3
20	Fn.	WI			13.468			18.24	0	6.0	3
Dec. 3	Hd.	EI			13.510			17.89	0	---	3
Mean------	1913.34		1	10	13.467	−1	27	17.85			
Corr----------					−0.081			−0.18			

Weisse$_2$ I 162

			h	m	s	°	′	″			
1912											
Sept. 19	R.	WII	1	12	8.734	+39	0	21.55	0	6.5	2
Oct. 2	R.	EII			8.648			21.16	0	7.0	1
4	R.	EII			8.669			21.97	0	6.5	1
7	R.	WII			8.647			21.61	0	6.5	1½
1913											
Nov. 5	Hd.	EI			8.650			21.33	0	7.0	2
6	Fn.	EI			8.614			21.18	0	6.5	1½
10	Fn.	WI			8.672			21.90	0	7.0	2½
11	R.	WI			8.668			22.05	0	7.0	2
1916											
Nov. 7	Wy	EI			-----			20.91	0	7.0	2½
10	Fn.	EI			-----			20.78	0	7.0	2½
20	Fn.	WI			-----			20.75	0	7.0	2
24	Fn.	WI			-----			19.93	0	7.0	2½
Dec. 7	Fn.	EI			-----			20.83	0	---	2
Mean------	1913.30		1	12	8.663	+39	0	21.23			
	1914.68										
Corr----------					−0.081			−0.27			

Groombridge 282

			h	m	s	°	′	″			
1911											
Oct. 16	Fn.	WII	1	12	27.244	+44	9	27.17	0	6.8	2
18	Fn.	WII			27.232			27.43	0	6.9	2½
Nov. 13	Fn.	EII			27.330			27.48	0	7.0	--
16	R.	EII			27.263			26.82	0	---	--
1914											
Oct. 28	An.	EI			27.262			27.35	0	7.0	3
30	Hd.	EI			27.248			27.02	0	6.5	3
31	An.	EI			27.232			27.14	0	7.0	2½
Nov. 5	Fn.	WI			27.238			27.70	0	7.0	2
6	Wy.	WI			27.274			26.97	0	6.5	2
Mean------	1913.50		1	12	27.258	+44	9	27.23			
Corr----------					−0.081			−0.28			

f Piscium

			h	m	s	°	′	″			
			1	13	9.330	+3	8	26.54			
1911											
Oct. 12	R.	WII			−0.001			+0.44	0	5.5	1½
13	Hd.	WII			+0.024			+0.24	0	5.7	--
Nov. 18	R.	EII			+0.056			+0.10	0	5.5	3
19	Fn.	EII			−0.002			−0.06	0	5.2	2½
1914											
Nov. 7	Hd.	WI			+0.041			−0.10	0	---	3
9	Hd.	WI			+0.013			−0.01	I	4.9	2
19	Hd.	EI			−0.003			+0.23	I	4.9	3
21	Fn.	EI			+0.035			+0.29	0	5.0	2
Mean------	1913.35				+0.020			+0.14			
Corr----------					−0.081			−0.19			

φ Cassiopeiæ

			h	m	s	°	′	″			
1912											
Nov. 4	R.	WII	1	14	24.631	+57	45	31.00	0	---	4
5	Fn.	WII			24.649			32.32	0	5.3	2
11	R.	EII			24.695			31.97	0	5.0	3½
16	Hd.	EII			24.763			31.88	I	4.4	--
19	R.	EII			24.646			32.15	0	---	4
1913											
Dec. 9	R.	EI			24.662			30.88	I	3.9	2

				h	m	s	°	′	″			
1913												
Dec. 11	Fn.	EI				24.648			31.36	0	5.0	2
15	Fn.	WI				24.724			31.45	0	5.0	2
16	R.	WI				24.670			32.18	0	---	3
Mean	1913.35			1	14	24.676	+57	45	31.69			
Corr						−0.081			−0.31			

ν Piscium

				h	m	s	°	′	″			
				1	14	30.991	+26	47	28.46			
1912												
Aug. 29	R.	WII				+0.032			−0.37	I	4.4	1
31	R.	WII				+0.020			+0.14	0	5.5	2½
Sept. 10	R.	EII				−0.043			+0.27	I	4.4	2
Oct. 5	R.	EII				+0.024			+0.45	I	4.4	3
1913												
Nov. 22	Hd.	WI				+0.025			0.00	I	4.9	2
24	Fn.	WI				+0.098			−0.33	0	5.0	2
Dec. 4	Fn.	EI				−0.001			−0.21	0	5.5	3
5	Fn.	EI				−0.001			−0.18	0	5.0	3½
Mean	1913.30					+0.019			−0.03			
Corr						−0.081			−0.24			

Lalande 2406[1]

				h	m	s	°	′	″			
1911												
Oct. 25	Hd.	WII		1	15	11.383	−25	25	16.32	0	8.5	2
Nov. 22	Hd.	EII				11.312			16.65	0	8.5	2
25	Hd.	WII				11.375			16.54	0	8.5	3
Dec. 19	Hd.	EII				11.365			16.18	0	8.5	3
1914												
Nov. 17	Wy.	EI				11.393			16.71	0	8.0	3½
1915												
Jan. 4	Hd.	EI				11.328			16.88	0	9.0	3
8	Wy.	EI				11.310			16.69	0	---	3
9	An.	EI				11.320			16.40	0	---	3½
10	Wy.	WI				11.390			16.86	0	9.0	3½
13	An.	WI				11.369			17.04	0	9.0	3½
14	Hd.	WI				11.305			17.16	0	9.0	3
Mean	1913.88			1	15	11.350	−25	25	16.68			
Corr						−0.081			−0.03			

Lalande 2416

				h	m	s	°	′	″			
1912												
Oct. 15	R.	WII		1	15	32.327	−16	17	2.66	0	---	2
16	Fn.	WII				32.328			4.19	0	---	3
Nov. 12	R.	EII				32.372			3.57	0	---	--
18	Fn.	EII				32.268			3.46	0	6.6	2½
20	Fn.	EII				32.301			4.13	0	---	4½
1913												
Dec. 19	R.	WI				32.346			3.34	0	---	2
20	Hd.	WI				------			4.62	0	---	3
22	Fn.	WI				32.376			2.97	0	7.0	4
1914												
Jan. 5	R.	EI				32.333			4.07	0	---	2½
6	Fn.	EI				32.379			4.84	0	7.0	3
Mean	1913.36			1	15	32.337	−16	17	3.78			
	1913.42											
Corr						−0.081			−0.11			

Weisse$_2$ I 265

				h	m	s	°	′	″			
1911												
Dec. 1	R.	WII		1	16	21.851	+21	54	10.27	0	---	2½
2	R.	WII				21.911			9.76	0	7.0	2½
20	Hd.	EII				21.887			10.10	0	---	3
25	R.	EII				21.915			10.03	0	---	--
1915												
Oct. 30	Wy	EI				21.858			9.49	0	7.0	3
Nov. 1	Fn.	EI				21.851			9.70	0	7.5	3½
1915												
Nov. 9	Hd.	WI				21.871			10.25	0	6.5	2
10	Fn.	WI				21.865			10.80	0	7.0	2
Mean	1913.90			1	16	21.876	+21	54	10.05			
Corr						−0.081			−0.23			

Weisse$_1$ I 209

				h	m	s	°	′	″			
1912												
Sept. 14	R.	WII		1	16	34.197	+11	3	53.90	0	7.5	1
Oct. 2	R.	EII				34.162			54.24	0	7.0	1½
8	R.	WII				34.177			54.37	0	7.0	2
27	R.	EII				34.206			53.39	0	7.5	2
1913												
Nov. 20	Fn.	WI				34.222			54.13	0	7.0	2½
21	R.	WI				34.202			53.85	0	6.0	3
Dec. 12	R.	EI				34.196			53.60	0	6.0	3
13	Hd.	EI				34.187			53.84	0	7.0	2
Mean	1913.34			1	16	34.194	+11	3	53.92			
Corr						−0.081			−0.21			

ξ Andromedæ

				h	m	s	°	′	″			
1914												
Nov. 26	Wy.	EI		1	17	2.176	+45	3	----	0	5.5	3
Dec. 30	An.	EI				2.184			----	0	5.5	3
1915												
Nov. 16	Fn.	WI				2.206			----	0	5.0	2
19	Fn.	EI				2.274			----	0	5.0	2½
26	Wy.	EI				2.222			----	0	5.5	3
Dec. 6	Fn.	WI				2.197			----	0	5.5	2½
9	Hd.	WI				2.165			----	0	6.0	2
10	Wy.	WI				2.192			----	I	4.9	2½
15	Fn.	WI				2.169			----	0	5.0	2
1916												
Nov. 27	Wy.	WI				2.212			----	0	5.5	2
Dec. 12	Fn.	EI				2.189			----	0	5.0	3
26	Fn.	WI				2.195			----	0	---	2
Mean	1916.02			1	17	2.198	+45	3	----			
Corr						−0.081			----			

θ Ceti

				h	m	s	°	′	″			
				1	19	31.437	−8	38	51.99			
1911						s		″	″			
June 14	*Fn.*	*EII*				*+0.053*		----	----	*0*	---	--
16	*T.*	*EII*				-----		*+0.37*	*+0.12*	*0*	---	--
21	*Fn.*	*EII*				*+0.070*		*+0.43*	*+0.13*	*0*	---	--
27	*T.*	*WII*				*+0.111*		*+0.54*	*+0.38*	*0*	---	--
29	*Hd.*	*WII*				*+0.063*		*−0.38*	*−0.38*	*0*	---	--
July 10	*Hd.*	*WII*				-----		*−0.72*	*−0.72*	*0*	---	--
12	*Fn.*	*WII*				-----		*−0.29*	*−0.35*	*0*	---	--
18	*R.*	*EII*				*+0.064*		*+0.34*	*+0.30*	*0*	---	*3*
24	*Hd.*	*EII*				*+0.032*		*−0.05*	*−0.07*	*0*	---	*3*
26	*Fn.*	*WII*				*+0.045*		*−0.58*	*−0.58*	*0*	---	--
28	*R.*	*WII*				*+0.065*		*−1.16*	*−1.10*	*0*	---	--
Aug. 1	*R.*	*WII*				-----		*−0.39*	*−0.35*	*0*	---	--
8	R.	EII				+0.031			−0.30	I	3.4	2
10	R.	EII				+0.053			−0.15	I	2.4	1½
15	R.	EII				+0.087			−0.34	I	3.4	2
16	Fn.	EII				+0.060			−1.30	I	3.5	3
18	Fn.	EII				+0.061			+0.59	I	3.4	--
21	Fn.	EII				+0.035			+0.06	I	3.4	3½
22	R.	EII				+0.031			−0.20	I	3.4	2½
Sept. 1	Fn.	WII				+0.032			−0.75	I	3.4	--
2	R.	WII				+0.068			−0.50	I	3.9	4
6	R.	WII				+0.041			−0.22	I	3.4	1½
13	R.	WII				+0.042			−0.21	I	2.9	2
18	Fn.	WII				+0.044			−0.30	I	3.4	2½
20	R.	WII				+0.069			−0.84	I	---	1½
25	Fn.	EII				+0.068			−0.39	--	---	2
30	R.	EII				+0.095			+0.65	I	3.9	1½
Oct. 13	Hd.	WII				+0.044			----	I	3.4	--
16	Fn.	WII				+0.040			----	--	---	2

[1] A very difficult star to observe on account of faintness.

				s	″	″			
1911									
Oct.	18	Fn.	WII	+0.029		−1.78	I	3.4	3½
	23	R.	WII	+0.029		−0.30	I	4.4	3½
Nov.	11	R.	EII	+0.095		----	--	---	
	13	Fn.	EII	+0.079		----	0	---	--
	15	Fn.	EII	+0.069		−0.56	0	---	3
	18	R.	EII	+0.030		----	I	3.9	2½
	19	Fn.	EII	+0.020		----	I	3.7	2½
Dec.	4	Hd.	WII	+0.053		+0.38	I	2.9	2½
	5	Hd.	WII	+0.094		−0.42	I	2.9	2
	6	Hd.	WII	+0.101		−0.45	I	2.9	1
1912									
Jan.	10	Fn.	EII	+0.052		----	0	---	2½
	19	Hd.	WII	-----		+1.24	I	2.9	3
	20	*Hd.*	*WII*	-----	*−0.40*	*−0.35*	*0*	---	
	23	*R.*	*EII*	*+0.063*	*−1.05*	*−1.02*	*0*	---	-
	24	*Hd.*	*EII*	-----	*−0.25*	*−0.20*	*I*	---	*3*
Feb.	*6*	*Fn.*	*EII*	-----	*+0.14*	*+0.34*	*0*	---	-
	8	*Hd.*	*EII*	-----	*+0.15*	*+0.27*	*0*	---	*3*
July	*26*	*Fn.*	*WII*	*+0.007*	*−1.35*	*−1.35*	*0*	---	*3*
	29	*R.*	*WII*	*+0.038*	*−0.95*	*−0.92*	*I*	---	*3*
	30	*Fn.*	*WII*	-- --	*−0.62*	*−0.62*	*0*	---	*2½*
Aug.	3	R.	EII	+0.094		−0.84	I	3.4	3
	6	R.	EII	+0.071		+0.73	0	---	--
	7	Fn.	EII	+0.073		+0.48	0	---	2
	10	R.	EII	+0.092		+0.26	I	4.4	2
	12	Fn.	EII	+0.080		−0.37	I	2.4	3
	14	Fn.	WII	-----		−0.54	0	---	3½
	15	R.	WII	+0.043		−0.03	0	---	--
	20	R.	WII	+0.052		----	I	4.4	2½
	23	Fn.	WII	+0.034		−1.18	I	---	3
	24	R.	WII	+0.052		−0.49	I	---	4
	27	R.	WII	+0.065		−0.34	I	3.9	3
	29	R.	WII	+0.082		−0.73	I	3.9	--
	31	R.	WII	+0.071		−0.19	I	4.4	3
Sept.	5	Fn.	EII	+0.079		−0.53	I	3.4	3
	9	Hd.	EII	+0.074		+0.72	I	3.4	2
	10	R.	EII	+0.055		+0.61	I	3.4	3½
	12	R.	WII	+0.069		−0.55	I	3.9	1½
	19	R.	WII	+0.056		−0.83	I	3.4	3½
	29	R.	EII	+0.042		+0.62	I	4.4	2½
Oct.	4	R.	EII	+0.042		+0.38	I	3.4	1½
	5	R.	EII	+0.087		----	I	3.4	3½
	9	R.	WII	+0.061		----	I	3.9	3
	10	R.	WII	+0.038		−0.97	I	3.9	2
	20	R.	EII	-----		−0.26	II	2.6	3
	27	R.	EII	+0.058		+0.52	I	3.4	2½
	29	R.	EII	+0.055		+0.26	I	---	4½
Nov.	3	R.	WII	-----		+0.34	I	2.9	1½
	4	R.	WII	+0.097		−1.35	0	---	4
	6	R.	WII	+0.048		−1.12	0	---	3
	9	Fn.	WII	+0.109		−0.38	I	3.4	3
	10	R.	EII	+0.078		−0.15	I	4.4	3½
	11	R.	EII	+0.080		----	0	---	5
	20	Fn.	EII	+0.072		−0.16	1	3.7	3½
	21	R.	EII	+0.032		−0.51	1	---	3½
	22	Fn.	EII	+0.057		−1.32	0	---	3½
	23	Hd.	EII	+0.073		+0.13	0	---	3
	26	Hd.	WII	+0.105		−0.28	I	3.4	3
	29	Fn.	WII	+0.050		−0.66	I	3.4	3½
	30	Hd.	WII	+0.111		−0.91	I	3.4	2
Dec.	3	R.	WII	+0.076		+0.09	I	3.4	2½
	6	Fn.	WII	+0.026		+0.05	0	---	3
	9	Fn.	WII	+0.092		+0.28	I	3.4	3½
	12	R.	EII	+0.049		+1.18	I	3.4	3
	13	Hd.	EII	+0.103		+0.12	I	2.9	3
	14	R.	EII	+0.048		+0.32	I	4.4	2½
	15	R.	EII	-----		+0.12	I	3.4	3½
	20	R.	EII	+0.027		+0.15	I	3.4	3
	22	R.	WII	+0.116		+0.18	I	4.4	2½
	27	R.	WII	-----		+1.19	I	3.4	--
	28	R.	WII	+0.020		−0.09	I	3.4	3½
1913									
Jan.	9	Hd.	WII	-----		−0.45	I	2.9	2
	13	Hd.	WII	-----		+0.19	I	3.4	3
	14	Fn.	WII	-----		−0.73	I	3.5	3
	19	Hd.	EII	+0.064		+0.05	I	3.4	3
	21	*Fn.*	*EII*	-----	*+0.75*	*+0.80*	*I*	---	*2½*

				s	″	″			
1913									
Jan.	*25*	*R.*	*EII*	*+0.006*	*+0.08*	*+0.03*	*0*	---	*2*
	26	*Hd.*	*EII*	*+0.053*	*−0.47*	*−0.27*	*0*	---	*2*
	28	*Fn.*	*EII*	-----	*+0.09*	*+0.12*	*0*	---	*3*
Feb.	*1*	*R.*	*WII*	-----	*+1.21*	*+1.35*	*0*	---	*3*
June	*11*	*Hd.*	*EII*	*+0.068*	*+0.31*	*+0.16*	*0*	---	*3*
	27	*R.*	*EII*	-----	*+0.86*	*+0.83*	*0*	---	*4*
	29	*Hd.*	*EII*	*+0.077*	*+0.15*	*−0.02*	*0*	---	*2½*
July	*1*	*Hd.*	*EII*	-----	*+0.09*	*−0.05*	*0*	---	*3*
	2	*R.*	*EII*	*+0.040*	*+0.14*	*+0.11*	*0*	---	*3*
Nov.	7	R.	EI	+0.082		−0.73	I	---	3
	24	Fn.	WI	+0.053		----	I	3.9	3
Dec.	9	R.	EI	+0.065		−1.07	I	2.9	2½
	15	Fn.	WI	+0.051		+0.05	I	3.9	3
	16	R.	WI	+0.074		−0.06	I	- -	4
	19	R.	WI	+0.075		−0.91	I	3.9	2
	20	Hd.	WI	+0.077		−0.75	I	---	3
	29	Fn.	WI	+0.096		−0.42	I	3.9	2½
1914									
Jan.	5	R.	EI	+0.092		−0.23	I	3.4	2½
	6	Fn.	EI	+0.128		−0.67	I	3.9	3
	8	R.	EI	+0.079		−1.24	I	---	2½
	10	Hd.	EI	+0.076		+0.25	I	3.9	3
	12	R.	EI	+0.094		+0.20	I	4.4	3½
	14	Hd.	EI	+0.078		−0.42	I	3.4	2
	15	R.	EI	-----		−0.68	0	---	5
	22	*Hd.*	*WI*	*+0.044*	*−0.87*	*−0.87*	*0*	---	*2*
	23	*Fn.*	*WI*	*+0.070*	*−1.29*	*−1.39*	*0*	---	*3½*
	25	*Fn.*	*WI*	*+0.017*	*−0.40*	*−0.30*	*0*	---	*2½*
	28	*Wy.*	*WI*	*+0.056*	*−0.28*	*−0.45*	*0*	---	*4*
Feb.	*3*	*Wy.*	*EI*	*+0.021*	*−1.21*	*−1.09*	*0*	---	*3*
	4	*Hd.*	*EI*	*+0.020*	*−0.51*	*−0.48*	*0*	---	*2*
May	*31*	*Hd.*	*EI*	-----	*+0.23*	*+0.20*	*0*	---	*3*
June	*2*	*Wy.*	*EI*	*+0.100*	----	----	*0*	---	*3½*
	5	*Wy.*	*EI*	[+0.260][1]	*−0.04*	*+0.01*	*0*	---	*3½*
	11	*Hd.*	*EI*	-----	*+0.44*	*+0.24*	*0*	---	*3*
	12	*Wy.*	*EI*	*+0.083*	*−1.79*	*−1.94*	*0*	---	*3½*
	15	*Hd.*	*EI*	*+0.129*	*−0.38*	*−0.41*	*0*	---	*3*
	16	*Wy.*	*EI*	*+0.058*	*−0.63*	*−0.87*	*0*	---	*3½*
	17	*Fn.*	*EI*	-----	*+0.17*	*−0.19*	*0*	---	*3½*
	19	*Wy.*	*WI*	*+0.004*	*−0.65*	*−0.58*	*0*	---	*3½*
	23	*Wy.*	*WI*	*−0.021*	*−0.73*	*−0.81*	*0*	---	*3*
	29	*Hd.*	*WI*	*+0.100*	*−1.82*	*−1.82*	*0*	---	*3½*
	30	*Wy.*	*WI*	-----	*−0.84*	*−0.99*	*0*	---	*3*
July	*2*	*Hd.*	*WI*	*+0.017*	*−0.96*	*−0.98*	*0*	---	*3*
	10	*Hd.*	*WI*	*+0.010*	*−0.44*	*−0.37*	*0*	---	*3*
	16	*Hd.*	*WI*	*+0.028*	*−0.91*	*−0.90*	*0*	---	*3*
	19	*Fn.*	*EI*	*+0.076*	*+0.06*	*+0.10*	*0*	---	*3½*
	20	*Hd.*	*EI*	*+0.073*	*−1.07*	*−1.04*	*0*	---	*3*
	21	*Fn.*	*EI*	*+0.087*	*−0.44*	*−0.39*	*0*	---	*3½*
	26	*Fn.*	*EI*	*+0.058*	*−0.83*	*−0.79*	*0*	---	*2*
	28	*Fn.*	*EI*	*+0.077*	*−0.35*	*−0.24*	*0*	---	*2½*
	29	*Hd.*	*EI*	-----	*−0.84*	*−0.77*	*I*	---	*3*
Aug.	7	Hd.	EI	+0.094		−0.69	I	3.4	2½
	8	Wy.	EI	+0.089		−0.69	I	3.9	3
	13	Hd.	WI	+0.060		−0.63	I	3.4	3
	14	Wy.	WI	+0.053		−1.00	I	3.4	3
	17	Fn.	WI	+0.071		−1.28	I	3.9	3
	18	Wy.	WI	+0.074		−0.42	I	3.4	3
	20	Fn.	WI	+0.059		−1.23	I	3.9	2½
	21	Wy.	WI	-----		−0.66	I	3.4	3
	22	An.	WI	+0.029		−0.16	II	3.6	2½
	31	Fn.	WI	+0.090		−1.33	I	3.9	3
Sept.	1	An.	WI	+0.057		−0.64	II	3.4	2
	2	Wy.	WI	+0.028		−0.49	I	3.4	2½
	4	Fn.	WI	+0.094		+0.80	I	3.9	3
	9	Fn.	EI	+0.109		+0.34	I	3.4	3½
	10	An.	EI	+0.104		−1.11	0	---	3
	14	Fn.	EI	+0.063		−0.15	I	3.9	3
	15	An.	EI	+0.088		+0.47	I	3.4	3
	17	Fn.	EI	+0.081		+0.12	0	---	3
	19	Wy.	EI	+0.037		−0.08	I	3.9	2
	20	An.	EI	+0.088		+0.14	I	2.9	3
	21	Hd.	EI	+0.056		−0.15	I	3.4	3
	22	Wy.	EI	+0.059		−0.27	I	3.9	2½
	23	An.	EI	+0.043		−0.18	I	3.9	3½
	25	Wy.	EI	+0.103		+0.10	I	3.9	3
	26	An.	EI	+0.072		−0.33	II	3.6	3

[1] Only one group; faint.

				s	"	"			
1914									
Sept.	28	Hd.	WI	+0.102		−0.05	I	3 1	3
	29	Wy.	WI	+0.093		−0.41	I	3.4	3
	30	An.	WI	+0.081		−0.57	I	3.4	3
Oct.	1	Hd.	WI	+0.069		−0.14	I	3.4	3
	2	Wy.	WI	+0.069		−0.95	I	3.9	2½
	5	Wy.	WI	+0.115		−0.91	I	3.9	3
	9	Hd.	WI	+0.047		−0.39	I	3.9	2½
	12	Hd.	WI	+0.070		−0.58	I	4.9	3
	19	Hd.	EI	-----		−0.24	I	3.9	2
	21	An.	EI	+0.060		−0.14	II	3.6	2
	22	Hd.	EI	+0.094		−0.65	I	3.4	3½
	23	Fn.	EI	+0.087		+0.28	I	3.9	3
	28	An.	EI	+0.085		−0.12	I	4.9	3½
	30	Hd.	EI	+0.106		----	I	3.4	3
	31	An.	EI	+0.061		----	I	4.9	3½
Nov.	2	Fn.	WI	+0.116		----	I	3.9	3½
	3	An.	WI	+0.059		----	I	4.9	3½
	6	Wy.	WI	+0.109		----	I	3.4	2½
	20	Wy.	EI	+0.074		----	0	---	4
	24	Hd.	EI	+0.084		----	0	---	3
	25	Wy.	EI	+0.079		----	I	3.9	3½
	26	Wy.	EI	+0.040		----	I	4.9	4
Dec.	12	An.	WI	+0.101		−1.38	I	---	3½
	14	Fn.	WI	+0.066		----	I	3.9	3
	16	An.	WI	+0.087		−0.79	I	4.9	2½
	17	Fn.	WI	+0.098		−0.50	I	3.9	2½
	18	Hd.	WI	+0.120		−0.58	0	---	3
	21	Fn.	WI	+0.071		−1.32	0	4.5	3½
	23	Hd.	WI	+0.103		−0.08	I	3.4	3
	30	An.	EI	+0.098		----	I	4.4	3½
	31	Fn.	EI	+0.023		−0.28	0	---	2¼
1915									
Jan.	3	An.	EI	-----		−0.23	0	---	2½
	4	Hd.	EI	+0.038		−0.88	I	3.4	3
	5	Wy.	EI	+0.017		----	I	3.9	2½
	10	Wy.	WI	+0.042		+0.06	I	3.4	2½
	13	An.	WI	+0.082		−0.40	I	---	3
	14	Hd.	WI	+0.094		−1.40	I	3.4	3
	15	Fn.	WI	-----		−0.26	I	---	3
	21	Wy.	EI	+0.053		−0.02	I	4.4	3
	26	*An.*	*EI*	*+0.044*	*+0.15*	*+0.18*	*I*	---	*3*
	29	*Wy.*	*EI*	*+0.027*	*−0.49*	*−0.43*	*0*	---	*3*
May	*22*	*Wy.*	*WI*	*+0.100*	*−0.46*	*−0.34*	*0*	---	*3½*
	26	*Wy.*	*WI*	*+0.058*	-----	-----	*0*	---	*3½*
June	*7*	*Hd.*	*EI*	*+0.032*	*+0.21*	*+0.23*	*0*	---	*3*
	8	*An.*	*EI*	*+0.047*	*−0.52*	*−0.52*	*0*	---	*3½*
	9	*Fn.*	*EI*	*+0.061*	*−0.29*	*−0.32*	*0*	---	*3½*
	15	*Wy.*	*WI*	-----	*+0.16*	*+0.12*	*0*	---	*3½*
	23	*Fn.*	*EI*	*+0.076*	*+0.15*	*+0.24*	*0*	---	*3½*
	24	*Wy.*	*EI*	*+0.065*	*+0.03*	*−0.22*	*0*	---	*3*
	26	*Wy.*	*EI*	-----	*−0.24*	*−0.28*	*0*	---	*3½*
	28	*Hd.*	*EI*	*+0.084*	*−0.46*	*−0.71*	*0*	---	*2*
	30	*Wy.*	*WI*	-----	*−0.63*	*−0.71*	*0*	---	*3½*
July	*5*	*Fn.*	*WI*	*+0.024*	*−0.05*	*−0.45*	*0*	---	*3*
	8	*Fn.*	*WI*	*+0.066*	*−0.59*	*−0.55*	*0*	---	*3*
	16	*An.*	*WI*	*+0.071*	*−1.61*	*−1.65*	*0*	---	*3*
	18	*Hd.*	*WI*	-----	*−1.11*	*−1.06*	*0*	---	*2½*
	21	*Hd.*	*EI*	-----	*−0.28*	*−0.24*	*0*	---	*2*
	23	*Fn.*	*EI*	-----	*+0.12*	*+0.16*	*0*	---	*2½*
	25	*Hd.*	*EI*	-----	*+0.06*	*+0.05*	*0*	---	*2*
	26	*An.*	*EI*	-----	*−0.01*	*0.00*	*I*	---	*3*
	31	*Fn.*	*EI*	-----	*−0.12*	*−0.14*	*0*	---	*2½*
Aug.	*2*	*Fn.*	*EI*	-----	*−0.53*	*−0.47*	*I*	---	*2½*
	9	Fn.	EI	+0.078		−0.57	I	3.9	3
	12	Fn.	EI	+0.083		−0.33	I	3.9	3
	13	An.	EI	+0.057		+0.28	I	4.4	3
	16	Fn.	EI	+0.075		−0.41	0	---	3
	17	An.	WI	+0.028		−0.46	I	3.4	3½
	18	Wy.	WI	+0.052		−1.27	I	3.4	3
	19	Fn.	WI	+0.069		−0.98	I	---	3
	23	Wy.	WI	+0.056		−0.43	I	3.9	3
	25	Wy.	WI	+0.060		−0.02	I	3.9	3½
	31	Wy.	WI	+0.110		−0.79	0	---	3
Sept.	3	Hd.	WI	+0.069		−1.53	I	4.4	2½
	7	Wy.	WI	+0.057		−0.68	I	3.4	2½
	8	Hd.	WI	+0.081		−0.56	I	3.4	2
	9	Wy.	WI	+0.035		−1.14	I	3.9	3

				s	"	"			
1915									
Sept.	13	Hd.	EI	+0.091		−0.25	I	2.9	2
	14	Wy.	EI	+0.084		−0.19	I	3.9	3
	16	Wy.	EI	-----		−0.20	I	3.9	2½
	21	Wy.	EI	+0.036		+0.05	I	3.9	3
	22	Wy.	EI	+0.075		−0.28	I	3.9	2½
	24	Hd.	EI	+0.046		+0.17	I	3.4	2
	27	Wy.	EI	+0.122		+0.04	I	3.9	3½
	28	Hd.	EI	+0.082		−0.14	I	3.4	3
	29	Fn.	EI	+0.082		−0.25	I	---	3
Oct.	9	Hd.	WI	+0.101		−0.68	I	3.4	3
	11	Hd.	WI	+0.090		−1.19	I	3.4	2½
	12	Fn.	WI	+0.083		−0.30	I	3.9	3½
	27	Wy.	WI	+0.071		−0.66	I	4.4	3
	30	Wy.	EI	+0.107		----	I	4.4	3½
Nov.	2	Wy.	EI	+0.073		+0.10	I	3.9	3
	3	Hd.	EI	+0.072		−0.28	I	3.4	2½
	5	Wy.	EI	+0.054		−0.01	I	3.9	3
	6	Hd.	EI	+0.056		−0.10	I	---	2
	16	Fn.	WI	+0.096		−0.93	I	3.9	3
	17	Wy.	WI	+0.079		−0.02	I	4.4	3
	19	Fn.	EI	+0.080		−0.19	I	3.9	3
	20	Wy.	EI	+0.066		−0.53	I	3.9	4
	22	Fn.	EI	+0.039		−0.21	0	---	3
	24	Hd.	EI	+0.066		−0.12	I	3.4	2
	26	Wy.	EI	+0.066		−0.38	I	4.4	3
	29	Hd.	EI	+0.065		−0.04	0	---	3
	30	Fn.	EI	+0.049		+0.97	I	3.9	3
Dec.	3	Fn.	EI	+0.064		−0.05	0	---	2½
	6	Fn.	WI	+0.094		−1.52	I	3.9	3
	7	Wy.	WI	+0.143		−1.09	I	3.9	3
	10	Wy.	WI	+0.087		−0.94	I	3.4	3
	15	Fn.	WI	+0.090		−0.36	I	4.4	3
	21	Fn.	WI	+0.094		−0.24	I	3.9	3
	27	Wy.	WI	+0.049		−0.96	I	---	3½
1916									
Jan.	4	Fn.	EI	+0.057		+0.12	I	4.4	3½
	8	Hd.	EI	+0.056		−0.05	I	3.9	3
	14	Wy.	EI	+0.055		+0.36	I	3.9	3
	19	Wy.	EI	-----		−0.78	I	3.9	3
	24	*Hd.*	*EI*	*+0.049*	*+0.31*	*+0.31*	*I*	---	*2*
Feb.	*3*	*Wy.*	*EI*	-----	*−0.10*	*+0.09*	*0*	---	*3½*
Mean			1914.10	+0.070		−0.33			
			1914.13						
Corr				−0.081		−0.15			

ψ Cassiopeiæ

				h	m	s	°	′	″			
1911												
Oct.	4	Fn.	EII	1	19	33.57	+67	39	38.85	0	5.0	2
	11	Hd.	WII			33.61			38.35	0	5.5	2
	12	R.	WII			33.68			38.24	I	4.4	1½
Nov.	2	Fn.	EII			33.76			37.51	0	5.1	2
1914												
Nov.	4	Hd.	WI			33.74			38.37	0	5.5	3
	5	Fn.	WI			33.70			38.03	0	5.5	2
	18	Fn.	EI			33.77			38.33	0	5.5	1½
	19	Hd.	EI			33.76			38.52	I	4.4	2
Mean			1913.33	1	19	33.699	+67	39	38.28			
Corr						−0.081			−0.34			

ψ Cassiopeiæ s. p.

				h	m	s	°	′	″			
1912												
Apr.	20	Fn.	WII	1	19	33.47	+67	39	38.46	0	---	4
	23	Hd.	WII			33.59			36.33	0	5.5	4
	27	R.	EII			33.64			36.90	0	---	5
May	1	R.	EII			33.65			37.25	0	6.5	4
1915												
Apr.	6	Wy.	EI			33.69			36.64	0	---	3½
	7	An.	EI			-----			36.94	0	6.0	4½
	15	Hd.	WI			33.76			36.95	0	---	4
	17	An.	WI			-----			38.34	0	5.0	4
Mean			1913.30	1	19	33.633	+67	39	37.23			
			1913.80									
Corr						−0.081			+0.67			

δ Cassiopeiæ

			h m s	° ′ ″			
			1 19 55.281	+59 46 4.58			
1912							
Oct. 30	Fn.	EII	+0.006	+1.03	0	---	--
31	Hd.	EII	−0.021	+0.13	I	---	--
Nov. 2	R.	WII	−0.083	−0.06	II	2.6	2
5	Fn.	WII	−0.078	+0.34	I	2.4	1½
16	Hd.	EII	−0.046	−0.06	II	2.6	2
1913							
Nov. 3	Fn.	EI	−0.044	−1.26	I	2.6	3
4	R.	EI	−0.063	−0.76	II	2.6	2½
13	Fn.	WI	−0.051	+0.70	0	---	2½
19	Hd.	WI	−0.046	−0.12	I	3.4	3
Mean------	1913.30		−0.047	−0.01			
Corr------			−0.081	−0.32			

δ Cassiopeiæ s. p.

			h m s	° ′ ″			
			1 19 -----	+59 46 4.50			
1913							
Jan. 1	Hd.	WII	-----	+0.9	0	---	5
1916							
Feb. 3	Fn.	EI	-----	−3.4	0	---	4½
7	Fn.	EI	-----	−1.3	0	---	4½
Mar. 10	Fn.	WI	-----	−4.4	0	---	4
Mean------	1915.34		-----	−2.05			
Corr------			-----	+1.03			

Weisse$_1$ I 280

			h m s	° ′ ″			
1911							
Nov. 16	R.	EII	1 20 14.311	−3 19 0.75	0	7.5	2½
21	Fn.	EII	14.297	0.84	0	6.2	2
25	Hd.	WII	14.325	1.32	0	5.8	3
30	R.	WII	14.390	1.25	0	6.0	4
1914							
Nov. 9	Hd.	WI	14.314	1.42	0	6.0	2
10	Fn.	WI	14.346	1.10	0	6.5	3
21	Fn.	EI	14.310	1.74	0	6.0	3
23	Fn.	EI	14.345	0.73	0	6.0	2½
Mean------	1913.38		1 20 14.330	−3 19 1.14			
Corr------			−0.081	−0.17			

Lalande 2597

			h m s	° ′ ″			
1912							
Sept. 14	R.	WII	1 21 45.256	+26 46 48.95	0	7.5	1
27	Hd.	EII	45.187	49.14	0	6.2	2
30	R.	EII	45.167	49.02	0	6.5	2
Oct. 7	R.	WII	45.217	49.27	0	7.0	1½
1913							
Nov. 5	Hd.	EI	45.207	49.22	0	6.5	3
6	Fn.	EI	45.228	48.09	0	7.0	1½
10	Fn.	WI	45.231	49.10	0	7.0	2½
17	Fn.	WI	45.210	48.87	0	7.0	1½
Mean------	1913.30		1 21 45.213	+26 46 48.96			
Corr------			−0.081	−0.24			

94 Piscium

			h m s	° ′ ″			
1911							
Oct. 25	Hd.	WII	1 21 49.891	+18 46 27.54	0	5.5	2
26	Fn.	WII	49.846	27.35	0	5.6	2
Nov. 11	R.	EII	49.845	26.41	0	---	2
13	Fn.	EII	49.880	27.28	0	---	2
1914							
Nov. 11	An.	WI	49.850	27.51	0	5.5	2½
13	Fn.	WI	49.851	26.85	0	6.0	3½
24	Hd.	EI	49.866	27.19	0	---	3
26	Wy.	EI	49.866	27.34	0	6.0	3
Mean------	1913.36		1 21 49.862	+18 46 27.18			
Corr------			−0.081	−0.23			

ω Andromedæ

			h m s	° ′ ″			
1914							
Dec. 30	An.	EI	1 22 16.093	+44 56 ----	0	5.0	3
1915							
Jan. 5	Wy.	EI	16.148	----	I	4.4	2
Nov. 26	Wy.	EI	16.099	----	I	4.9	2½
Dec. 9	Hd.	WI	16.094	----	0	---	2
1916							
Dec. 12	Fn.	EI	16.168	----	0	5.0	3
26	Fn.	WI	16.174	----	0	5.0	2
1918							
Jan. 19	Wy.	WII	16.206	----	0	5.0	2½
Feb. 8	*Wy.*	*WII*	*16.162*	----	*0*	---	3½
Mean------	1916.26		1 22 16.140	+44 56 ----			
Corr------			−0.081	----			

Bradley 192

			h m s	° ′ ″			
1912							
Oct. 2	R.	EII	1 22 25.151	−13 31 26.77	0	5.5	2
5	R.	EII	25.191	26.21	0	6.0	3
8	R.	WII	25.127	26.99	0	---	2½
9	R.	WII	25.137	27.76	0	6.0	3
1913							
Nov. 22	Hd.	WI	25.108	27.06	0	6.0	3
24	Fn.	WI	25.126	26.63	0	6.0	3
Dec. 4	Fn.	EI	25.178	27.83	0	6.0	3½
5	Fn.	EI	25.185	27.42	0	6.0	3½
Mean------	1913.34		1 22 25.150	−13 31 27.08			
Corr------			−0.081	−0.12			

γ Phœnicis

			h m s	° ′ ″			
			1 24 -----	−43 46 46.58			
1913							
Jan. 4	Fn.	WII	-----	+0.5	0	---	4
13	Hd.	WII	-----	−2.1	0	---	5
14	Fn.	WII	-----	−0.8	0	---	4
19	Hd.	EII	-----	+0.1	0	---	4½
21	Fn.	EII	-----	−1.6	0	---	4½
Nov. 4	R.	EI	-----	−0.5	0	---	-
Dec. 29	Fn.	WI	-----	+0.8	0	---	3½
1915							
Jan. 7	Hd.	EI	-----	+0.5	0	---	5
10	Wy.	WI	-----	−3.0	0	---	4
13	An.	WI	-----	−1.4	0	---	3½
14	Hd.	WI	-----	−3.3	0	---	4
15	Fn.	WI	-----	−3.7	0	---	4
Nov. 24	Hd.	EI	-----	+1.2	0	---	3½
30	Fn.	EI	-----	−0.4	0	---	4½
Dec. 7	Wy.	WI	-----	−2.1	0	---	4
10	Wy	WI	-----	−4.3	0	---	5
1916							
Jan. 8	Hd.	EI	-----	+0.9	0	---	5
24	Hd.	EI	-----	+0.5	0	---	3½
Mean------	1914.66		-----	−1.04			
Corr------			-----	+0.63			

38 Cassiopeiæ

			h m s	° ′ ″			
			1 24 31.010	+69 48 6.37			
1912							
Oct. 15	R.	WII	0.00	+0.28	0	6.0	1
16	Fn.	WII	−0.06	−0.64	0	6.3	2½
28	Fn.	EII	−0.14	+1.56	0	6.5	4
29	R.	EII	+0.02	+0.17	0	---	4
1913							
Dec. 11	Fn.	EI	−0.03	−0.01	0	6.0	2
12	R.	EI	−0.10	+0.68	0	--	-
19	R.	WI	−0.08	+0.06	0	6.0	2
22	Fn.	WI	−0.05	+1.14	0	6.0	2
Mean------	1913.38		−0.055	+0.40			
Corr------			−0.081	−0.34			

38 Cassiopeiæ s. p.

				h m s	° ′ ″					
				1 24 31.017	+69 48 6.32					
1912										
Apr.	10	R.	WII		−0.09		+0.16	0	6.0	4
	23	Hd.	WII		−0.08		−1.23	0	6.0	4
May	3	Hd.	EII		−0.03		−0.10	0	7.0	3
	26	Hd.	EII		+0.07		−0.51	0	6.5	3½
1915										
May	19	Fn.	EI		−0.13		−0.69	0	6.5	4
	31	Wy.	WI		0.00		+0.27	0	7.0	4
June	4	An.	WI		----		+0.09	0	7.0	3½
	7	Fn.	EI		−0.09		−0.56	0	---	--
	9	An.	EI		----		−0.26	0	7.0	3½
Mean		1913.65			−0.050		−0.31			
		1914.05								
Corr					−0.081		+0.61			

48 Ceti

				h m s	° ′ ″					
1911										
Oct.	18	Fn.	WII	1 25 17.205	−22 5 40.61			0	5.3	3½
	23	R.	WII	17.137			40.64	0	5.5	3
Nov.	2	Fn.	EII	17.189			41.76	0	5.4	3
	3	Hd.	EII	17.125			40.61	0	5.2	3
1914										
Nov.	4	Hd.	WI	17.191			40.96	0	6.0	3½
	5	Fn.	WI	17.157			40.18	0	5.5	2½
	19	Hd.	EI	17.184			40.49	0	5.5	3
	23	Fn.	EI	17.206			40.07	0	5.0	3
Mean		1913.34		1 25 17.174	−22 5 40.66					
Corr				−0.081			−0.06			

Bradley 201

				h m s	° ′ ″					
1911										
Oct.	11	Hd.	WII	1 25 27.715	−26 4 59.70			0	7.0	3
	12	R.	WII	27.770			59.71	0	6.5	3½
Nov.	16	R.	EII	27.686			59.83	0	7.5	3
	19	Fn.	EII	27.610			59.18	0	7.0	3
1915										
Sept.	22	Wy.	EI	27.739			59.30	0	6.5	3
	24	Hd.	EI	27.697			58.97	0	6.5	3
Oct.	9	Hd.	WI	27.733			59.81	0	6.5	3
	11	Hd.	WI	27.769			60.05	0	6.0	3
Mean		1913.79		1 25 27.715	−26 4 59.57					
Corr				−0.081			−0.02			

μ Piscium

				h m s	° ′ ″					
1912										
Oct.	30	Fn.	EII	1 25 28.168	+5 40 49.72			0	5.6	3
	31	Hd.	EII	28.186			48.93	0	---	3
Nov.	2	R.	WII	28.166			49.39	I	4.4	2
	5	Fn.	WII	28.150			48.53	0	5.4	2
	11	R.	EII	28.175			48.60	0	---	5
1913										
Nov.	7	R.	EI	28.205			47.96	0	---	2½
	19	Hd.	WI	28.168			47.88	0	---	3
	21	R.	WI	28.175			48.63	I	---	2
Dec.	9	R.	EI	28.205			47.58	I	4.4	2
Mean		1913.31		1 25 28.178	+5 40 48.58					
Corr				−0.081			−0.19			

B. D.+38° 275

				h m s	° ′ ″					
1916										
Nov.	3	Fn.	EI	1 25 -----	+39 1 49.62			0	8.0	2
	10	Fn.	EI	-----			49.95	0	7.5	2½
	20	Fn.	WI	-----			50.08	0	7.5	2
	24	Fn.	WI	-----			51.35	0	8.0	2½
Mean		1916.87		1 25 -----	+39 1 50.25					
Corr				-----			−0.27			

η Piscium

				h m s	° ′ ″					
				1 26 39.903	+14 52 55.71					
1911				s	″		″			
July	*4*	*R.*	*EII*	*+0.019*	*−0.95*		*−1.03*	*0*	---	--
Oct.	25	Hd.	WII	+0.060			+0.83	I	3.3	2
Nov.	18	R.	EII	+0.070			----	I	3.9	2
	21	Fn.	EII	+0.070			----	I	3.4	2
	25	Hd.	WII	+0.079			----	I	2.9	3
	30	R.	WII	+0.006			----	I	3.4	3
Dec.	1	R.	WII	+0.065			−0.20	I	3.9	2
	2	R.	WII	+0.094			----	I	3.9	2½
	4	Hd.	WII	+0.057			+0.03	I	3.1	2
	5	Hd.	WII	+0.052			+0.07	I	3.2	2
	6	Hd.	WII	+0.061			+0.22	I	2.9	1
	20	Hd.	EII	+0.055			----	I	3.9	3
	25	R.	EII	+0.028			----	I	---	3
1912										
Jan.	22	Fn.	WII	+0.047			+0.42	0	---	3½
Aug.	20	R.	WII	+0.069			+0.52	I	3.9	1
	27	R.	WII	+0.071			−0.04	I	2.9	2
Sept.	19	R.	WII	+0.038			+0.60	I	2.9	2½
Nov.	1	Fn.	EII	+0.013			−0.93	0	---	3
	4	R.	WII	+0.078			−0.21	I	3.9	2½
	9	Fn.	WII	+0.037			+0.06	I	3.2	2
	12	R.	EII	+0.035			−0.31	I	4.4	3½
	16	Hd.	EII	+0.051			+0.22	I	2.9	--
	18	Fn.	EII	+0.043			+0.66	I	3.2	1½
	20	Fn.	EII	+0.067			----	I	3.4	3
	21	R.	EII	+0.084			−0.45	I	3.4	2½
	22	Fn.	EII	+0.062			+0.01	I	4.2	2½
	23	Hd.	EII	+0.053			----	0	---	2½
	29	Fn.	WII	+0.069			----	I	3.3	2½
	30	Hd.	WII	+0.067			----	I	3.4	2
Dec.	14	R.	EII	+0.078			−0.15	I	3.9	2
1913										
July	*2*	*R.*	*EII*	*+0.056*	----		----	*0*	---	*3*
Nov.	11	R.	WI	+0.047			----	0	---	3
	13	Fn.	WI	+0.033			−0.05	0	---	2½
	20	Fn.	WI	+0.056			−0.30	I	3.9	3
Dec.	12	R.	EI	+0.066			----	I	3.9	2½
	13	Hd.	EI	+0.038			−0.12	I	2.9	2
	15	Fn.	WI	+0.077			−0.40	I	3.4	2
	16	R.	WI	+0.030			−0.71	I	---	2½
	17	Hd.	WI	+0.039			----	0	---	3
	20	Hd.	WI	+0.094			−0.22	0	---	3
	27	Wy.	WI	+0.053			+0.01	I	---	2½
1914										
Jan.	5	R.	EI	+0.045			−0.47	I	2.9	2½
	6	Fn.	EI	+0.056			−0.10	I	3.4	2
	7	Hd.	EI	+0.084			----	I	3.4	3
	8	R.	EI	+0.055			−0.96	I	4.4	2½
	10	Hd.	EI	+0.051			----	0	---	--
	12	R.	EI	+0.043			----	I	3.9	3
	13	Wy.	EI	+0.027			----	0	---	3½
	14	Hd.	EI	+0.048			----	I	3.4	2
June	*12*	*Wy.*	*EI*	*+0.132*	*−0.11*		*−0.18*	*0*	---	*3½*
	15	*Hd.*	*EI*	*+0.096*	*+0.12*		*+0.10*	*0*	---	*2½*
	16	*Wy.*	*EI*	*+0.054*	*+0.22*		*+0.10*	*0*	---	*3½*
	19	*Wy.*	*WI*	*−0.033*	*+0.20*		*+0.22*	*0*	---	--
	23	*Wy.*	*WI*	*+0.020*	*−0.25*		*−0.29*	*0*	---	*3*
Oct.	21	An.	EI	+0.026			+0.33	I	3.9	2
	22	Hd.	EI	+0.056			----	I	2.9	3
Nov.	6	Wy.	WI	+0.039			----	I	3.4	2
	9	Hd.	WI	+0.047			----	I	2.9	2
	10	Fn.	WI	+0.055			−0.93	I	3.9	2½
	11	An.	WI	+0.069			+0.44	I	3.9	2½
	13	Fn.	WI	+0.061			----	0	---	4
	17	Wy.	EI	+0.084			----	I	3.4	2
	18	Fn.	EI	+0.050			+0.53	0	---	1½
	20	Wy.	EI	+0.063			----	0	---	3½
	21	Fn.	EI	+0.056			----	I	3.9	2½
	24	Hd.	EI	+0.057			----	0	---	3
	25	Wy.	EI	+0.043			----	I	3.4	3
	28	Wy.	EI	+0.070			----	0	---	2
Dec.	3	Fn.	WI	+0.066			+0.09	I	3.9	2
	14	Fn.	WI	+0.022			----	I	3.4	3½
	16	An.	WI	+0.057			----	I	4.4	2

				s	″	″				
1914										
Dec.	18	Hd.	WI	+0.022		----	0	---	3	
	30	An.	EI	+0.082		----	I	---	3½	
	31	Fn.	EI	+0.045		----	0	---	2	
1915										
Jan.	4	Hd.	EI	+0.040		----	I	3.4	3	
	26	*An.*	*EI*	*+0.093*	----	----	*I*	---	*2½*	
May	*26*	*Wy.*	*WI*	*+0.086*	*+0.14*	*+0.25*	*0*	---	*3½*	
June	*6*	*Fn.*	*EI*	*+0.081*	----	----	*0*	---	*3½*	
	7	*Hd.*	*EI*	*+0.052*	*−0.57*	*−0.56*	*0*	---	*2½*	
	8	*An.*	*EI*	*+0.055*	----	----	*0*	---	*3*	
	9	*Fn.*	*EI*	*+0.026*	*+0.32*	*+0.33*	*0*	---	*3½*	
	11	*An.*	*WI*	*+0.059*	----	----	*0*	---	*3½*	
	15	*Wy.*	*WI*	-----	*−0.40*	*−0.41*	*0*	---	*3½*	
	22	*An.*	*EI*	-----	*+0.47*	*+0.42*	*0*	---	*3*	
	23	*Fn.*	*EI*	*+0.065*	*−0.33*	*−0.32*	*0*	---	*3½*	
	24	*Wy.*	*EI*	*+0.079*	*+0.43*	*+0.29*	*0*	---	*3*	
	27	*Hd.*	*EI*	*+0.023*	*+0.16*	*+0.15*	*0*	---	*3½*	
	28	*Hd.*	*EI*	*+0.044*	*−0.29*	*−0.41*	*0*	---	*2½*	
July	*1*	*Hd.*	*WI*	*+0.103*	*−0.66*	*−0.73*	*0*	---	*2½*	
	5	*Fn.*	*WI*	*+0.064*	*−0.62*	*−0.78*	*0*	---	*3*	
	13	*An.*	*WI*	*+0.034*	----	----	*0*	---	*3*	
Sept.	16	Wy.	EI	+0.074		----	I	3.9	2½	
	27	Wy.	EI	+0.033		----	I	---	3	
	28	Hd.	EI	+0.031		----	I	3.4	2½	
	29	Fn.	EI	+0.067		−0.26	I	---	3	
Oct.	12	Fn.	WI	+0.043		+0.16	I	3.9	3	
	21	Fn.	WI	+0.059		−0.36	0	---	3	
	27	Wy.	WI	+0.044		+0.11	I	3.9	2½	
	30	Wy.	EI	+0.044		−0.04	I	4.4	3	
Nov.	1	Fn.	EI	+0.061		−0.43	0	4.5	3½	
	3	Hd.	EI	+0.054		−0.36	I	3.4	2	
	5	Wy.	EI	+0.049		−0.11	I	3.9	3	
	6	Hd.	EI	+0.055		+0.13	0	---	2	
	9	Hd.	WI	+0.043		+0.19	I	3.4	2	
	10	Fn.	WI	+0.055		+0.38	I	3.4	2½	
	20	Wy.	EI	+0.015		−0.67	I	3.9	3½	
Dec.	6	Fn.	WI	+0.027		−0.35	I	3.4	3	
	21	Fn.	WI	+0.047		−0.79	I	3.9	2	
1916										
Jan.	14	Wy.	EI	+0.064		+0.31	I	3.4	2½	
June	*19*	*Hd.*	*WI*	*+0.073*	*−0.55*	*−0.56*	*0*	---	*2½*	
	21	*Fn.*	*WI*	*+0.005*	*−1.24*	*−1.25*	*0*	---	*3*	
	22	*Hd.*	*WI*	*+0.042*	*−0.34*	*−0.37*	*0*	---	*3*	
July	*6*	*Fn.*	*EI*	*+0.060*	----	----	*0*	---	*3*	
	12	*Hd.*	*EI*	*+0.066*	*−1.35*	*−1.37*	*0*	---	*3*	
	19	*Hd.*	*EI*	*+0.044*	*−0.92*	*−0.90*	*0*	---	*2*	
	20	*Wy.*	*EI*	*+0.071*	*−0.77*	*−0.77*	*0*	---	*3½*	
Sept.	7	Wy.	WI	+0.071		−0.11	I	3.9	3½	
Oct.	26	Wy.	EI	+0.068		+0.07	I	3.4	3	
Nov.	27	Wy.	WI	+0.054		−0.75	I	3.4	2	
Dec.	12	Fn.	EI	+0.065		----	I	4.4	3	
	26	Fn.	WI	+0.070		----	I	4.4	2½	
	28	Fn.	WI	+0.078		----	I	4.4	3½	
	29	Hd.	WI	+0.044		−0.64	I	3.4	2	
1917										
Jan.	9	Fn.	EI	+0.120		----	I	4.4	3	
	18	Fn.	EI	+0.105		----	I	---	--	
July	*27*	*Hd.*	*EII*	*+0.013*	----	----	*I*	---	*2*	
Nov.	12	Wy.	WII	+0.066		−0.59	I	3.4	3	
Dec.	6	Fn.	WII	+0.053		----	I	---	2	
	20	Hd.	EII	+0.033		----	I	3.4	2	
	27	Fn.	EII	+0.041		----	I	3.9	2	
1918										
Jan.	19	Wy.	WII	+0.069		+0.41	I	3.4	3	
Feb.	*8*	*Wy.*	*WII*	*+0.072*	*−0.34*	*−0.27*	*0*	---	*3½*	
July	*2*	*Wy.*	*WII*	*+0.056*	----	----	*0*	---	*3½*	
	17	*Wy.*	*EII*	-----	*−0.25*	*−0.24*	*0*	---	*3*	
Mean		1914.52		+0.055		−0.10				
		1914.46								
Corr				−0.081		−0.22				

α Ursæ Minoris

h 1 m 26 s 56.56 ° +88 ′ 49 ″ 33.57

				s	″	″				
1911										
May	*16*	*T.*	*WII*	*+0.53*	----	----	*0*	---	--	
	18	*Hd.*	*WII*	*−0.23*	*−1.12*	*−1.18*	*0*	---	--	
1911										
May	*19*	*T.*	*WII*	*+0.61*	----	----	*0*	---	--	
	22	*Hd.*	*EII*	*+2.35*	*+0.03*	*−0.05*	*0*	---	--	
	24	*Fn.*	*EII*	----	*+1.42*	*+1.38*	*0*	---	--	
	25	*Hd.*	*EII*	*+2.08*	*−0.71*	*−0.84*	*0*	---	--	
	26	*T.*	*EII*	----	*−0.28*	*−0.41*	*0*	---	--	
	28	*Fn.*	*WII*	*+3.45*	*+0.75*	*+0.95*	*0*	---	--	
	31	*Fn.*	*WII*	*+2.56*	*−0.34*	*−0.40*	*0*	---	--	
June	*1*	*Hd.*	*WII*	*+0.42*	*−0.49*	*−0.51*	*0*	---	--	
	8	*Hd.*	*WII*	*−1.86*	*−0.06*	*+0.08*	*0*	---	--	
	9	*T.*	*EII*	----	*−0.20*	*+0.07*	*0*	---	--	
	14	*Fn.*	*EII*	*+0.80*	*+0.18*	*+0.34*	*0*	---	--	
	16	*T.*	*EII*	----	*−1.25*	*−0.95*	*0*	---	--	
	19	*Hd.*	*EII*	*+0.83*	*+0.26*	*+0.54*	*0*	---	--	
	20	*T.*	*EII*	----	*+0.25*	*+0.12*	*0*	---	--	
	21	*Fn.*	*EII*	*−0.45*	*−0.11*	*+0.12*	*0*	---	--	
	27	*T.*	*WII*	----	*−0.78*	*−0.62*	*0*	---	--	
	28	*Fn.*	*WII*	*+0.38*	*−0.48*	*−0.37*	*0*	---	--	
	29	*Hd.*	*WII*	*−0.01*	*−0.38*	*−0.38*	*0*	---	--	
	30	*T.*	*WII*	----	*+0.40*	*+0.53*	*0*	---	--	
July	*4*	*R.*	*EII*	*−0.23*	*+0.62*	*+0.84*	*0*	---	--	
	5	*Fn.*	*EII*	*+1.74*	*−0.71*	*−0.49*	*0*	---	--	
	6	*Hd.*	*EII*	*+1.66*	*+0.19*	*+0.30*	*0*	---	*3*	
	7	*R.*	*EII*	----	*+0.62*	*+0.62*	*0*	---	--	
	10	*Hd.*	*WII*	*+0.36*	*−0.03*	*−0.03*	*0*	---	--	
	17	*Hd.*	*EII*	*−0.92*	*−0.08*	*−0.11*	*0*	---	--	
	18	*R.*	*EII*	*−0.07*	*+0.57*	*+0.57*	*0*	---	--	
	24	*Hd.*	*EII*	*+0.92*	*−0.11*	*−0.11*	*0*	---	*3*	
	26	*Fn.*	*WII*	*−1.20*	*+0.22*	*+0.19*	*0*	---	--	
	28	*R.*	*WII*	*−0.02*	*−0.06*	*−0.11*	*0*	---	--	
Aug.	*1*	*R.*	*WII*	*+0.03*	*−0.43*	*−0.48*	*0*	---	*5*	
	8	R.	EII	+1.51		−0.07	II	1.1	1	
	10	R.	EII	+1.00		−0.09	II	2.1	3	
	15	R.	EII	+3.57		−0.03	II	2.1	2	
	16	Fn.	EII	+0.89		−0.01	II	2.4	3	
	18	Fn.	EII	−0.79		+0.64	II	2.4	--	
	21	Fn.	EII	+0.41		+0.31	II	2.6	3½	
	22	R.	EII	+1.70		+0.16	II	2.1	2	
Sept.	1	Fn.	WII	+0.71		−0.32	II	---	--	
	2	R.	WII	+0.43		−0.08	II	2.1	3	
	6	R.	WII	+2.04		+0.27	II	2.6	2	
	11	Fn.	WII	+0.96		−0.33	I	1.9	2	
	13	R.	WII	+2.02		+0.72	II	2.1	1	
	18	Fn.	WII	+0.64		+0.12	II	2.0	2½	
	20	R.	WII	−0.09		+0.32	II	2.1	1½	
	22	Hd.	WII	----		−0.19	--	---	--	R.
	22	Hd.	WII	----		+0.33	--	---	--	
	25	Fn.	EII	+1.81		+0.69	I	2.2	2	
	30	R.	EII	+0.69		+0.50	II	2.6	1	
1912										
Jan.	16	Hd.	WII	+2.12		+0.01	II	2.6	3	
	19	Hd.	WII	−0.30		+1.21	II	2.1	3	
	20	Hd.	WII	----		+0.29	0	---	3	R.
	20	Hd.	WII	−0.34		−0.05	0	---	3	
	23	*R.*	*EII*	----	*+1.00*	*+1.00*	*I*	---	--	*R.*
	23	*R.*	*EII*	*+1.28*	*−0.11*	*−0.11*	*II*	---	--	
	24	*Hd.*	*EII*	----	*−0.09*	*−0.14*	*I*	---	--	*R.*
	24	*Hd.*	*EII*	*+2.30*	*−0.58*	*−0.63*	*II*	--	*3*	
	27	*Fn.*	*EII*	*−1.03*	*+0.18*	*+0.13*	*I*	--	*3*	
	31	*Hd.*	*EII*	*−1.64*	*+0.47*	*+0.37*	*0*	---	*1½*	
Feb.	*1*	*R.*	*EII*	----	*−0.48*	*−0.53*	*0*	---	--	*R.*
	1	*R.*	*EII*	*+1.28*	*+0.19*	*+0.14*	*0*	---	*4*	
	4	*Fn.*	*WII*	----	*+0.22*	*+0.15*	*0*	---	*4*	*R.*
	4	*Fn.*	*WII*	*+1.03*	*+0.13*	*+0.06*	*0*	---	*4*	
	5	*R.*	*WII*	*+0.80*	*+0.03*	*−0.17*	*0*	---	*5*	
	6	*Fn.*	*EII*	----	*+0.90*	*+0.73*	*0*	---	*3½*	*R.*
	6	*Fn.*	*EII*	*+1.31*	*−0.44*	*−0.61*	*0*	---	*3½*	
	7	*R.*	*EII*	*+1.85*	*−0.04*	*−0.07*	*0*	---	--	
	8	*Hd.*	*EII*	----	*−0.26*	*−0.34*	*0*	---	--	*R.*
	8	*Hd.*	*EII*	*−0.32*	*+0.35*	*+0.27*	*0*	---	*2*	
	9	*Fn.*	*EII*	----	*+0.36*	*+0.26*	*0*	---	*3*	*R.*
	9	*Fn.*	*EII*	*+0.78*	*+0.08*	*−0.02*	*0*	---	*3*	
	13	*R.*	*EII*	----	*−0.17*	*−0.33*	*0*	---	--	*R.*
	13	*R.*	*EII*	*+0.85*	*+0.28*	*+0.12*	*0*	---	*5*	
	14	*Fn.*	*EII*	*+1.65*	*−0.44*	*−0.44*	*0*	---	*3½*	
Apr.	*22*	*Hd.*	*WII*	*−0.06*	*−1.81*	*−2.05*	*0*	---	*4*	
	23	*R.*	*WII*	*−0.91*	*−0.82*	*−0.98*	*0*	---	--	
	24	*Fn.*	*EII*	*+0.54*	*−1.25*	*−1.35*	*0*	---	--	
	30	*R.*	*EII*	*+0.46*	*−2.16*	*−2.33*	*0*	---	--	

1912				s	″	″					
May	1	Fn.	EII	+1.42	−0.53	−0.76	0	---	--		
	2	Hd.	EII	+0.41	−0.59	−0.84	0	---	4		
	3	R.	WII	+2.09	−0.70	−0.93	0	---	5		
	9	Hd.	WII	+0.14	−2.05	−2.21	0	---	4		
	10	R.	WII	+2.05	−0.46	−0.41	0	---	5		
	16	R.	EII	+2.34	−0.18	−0.34	0	---	5		
	17	Hd.	EII	+1.36	−0.24	−0.33	0	---	--		
	19	Fn.	EII	+2.49	−0.59	−0.72	0	---	3½		
	20	Hd.	WII	+1.28	----	----	0	---	4		
	21	R.	WII	+2.25	−0.94	−0.99	0	---	5		
	26	Fn.	EII	+0.94	−0.38	−0.27	0	---	3½		
	27	Hd.	WII	+0.42	−0.99	−0.90	0	---	3½		
	30	Hd.	WII	+1.53	−1.07	−1.18	0	---	3		
	31	R.	WII	−0.82	−0.86	−0.80	0	---	--		
June	7	R.	EII	+3.55	−0.74	−0.67	0	---	--		
	9	Fn.	EII	+2.09	−1.02	−0.79	0	---	3		
	10	R.	EII	+0.81	−0.46	−0.31	0	---	4		
July	26	Fn.	WII	+0.73	+0.39	+0.36	I	---	3		
	29	R.	WII	----	−0.64	−0.67	--	---	--		R.
	29	R.	WII	+0.88	−0.04	−0.07	I	---	3½		
	30	Fn.	WII	+0.69	−0.47	−0.47	0	---	2½		
Aug.	3	R.	EII	+0.19		−0.23	II	---	3		
	6	R.	EII	+0.46		----	0	---	1		
	7	Fn.	EII	+2.69		+0.22	I	2.1	2		
	10	R.	EII	----		−0.18	I	---	2		R.
	10	R.	EII	+1.20		+0.58	II	2.6	2		
	12	Fn.	EII	+1.52		−0.13	I	1.8	3		
	14	Fn.	WII	+2.75		+0.44	0	---	3½		
	15	R.	WII	----		−0.29	0	---	--		R.
	15	R.	WII	+0.65		−0.31	0	---	--		
	20	R.	WII	----		−0.52	0	---	1		R.
	20	R.	WII	+2.29		+0.44	I	---	2		
	22	R.	WII	+0.39		−0.09	0-I	---	--		
	23	Fn.	WII	−1.43		−0.22	0	---	3		
	24	R.	WII	----		+1.06	I	---	--		R.
	24	R.	WII	+0.51		−0.16	I	---	3½		
	27	R.	WII	----		−0.19	0	---	--		R.
	27	R.	WII	−0.39		−0.48	II	2.6	1		
	29	R.	WII	----		−0.53	0	---	--		R.
	29	R.	WII	+1.18		−0.05	I	---	2		
	31	R.	WII	----		+0.15	0	---	--		R.
	31	R.	WII	−0.27		+0.33	I	3.4	3½		
Sept.	5	Fn.	EII	+0.53		+0.45	I	---	3½		
	6	Hd.	EII	+0.45		+0.80	II	2.6	2		
	9	Hd.	EII	+0.87		+0.40	0	---	--		
	10	R.	EII	----		−0.12	I	---	2		R.
	10	R.	EII	+0.34		+0.79	II	2.6	3½		
	12	R.	WII	----		−0.29	I	3.9	1		R.
	12	R.	WII	+0.40		+0.13	II	2.6	1		
	17	R.	WII	----		−0.39	0	---	--		R.
	17	R.	WII	+1.31		+0.03	II	2.6	2		
	27	Hd.	EII	−0.34		+0.20	II	2.1	3		
	29	R.	EII	+0.48		−0.31	II	2.6	2		
Oct.	4	R.	EII	+1.15		+0.28	II	2.1	1		
	10	R.	WII	+0.46		+0.61	II	2.6	1½		
	20	R.	EII	----		+0.25	II	2.6	1½		R.
	20	R.	EII	−0.25		+0.48	II	2.1	3		
	27	R.	EII	+3.41		+0.16	II	2.6	2		
Nov.	3	R.	WII	----		−0.14	II	2.6	1½		R.
	3	R.	WII	+1.21		+0.75	II	2.6	1½		
	4	R.	WII	−0.23		+0.35	I	---	4		
	5	Fn.	WII	----		+0.32	I	2.5	2½		
	6	R.	WII	−0.26		−0.09	I	---	2½		
	10	R.	EII	+1.17		+0.80	I	---	4		
	19	R.	EII	+1.63		+0.84	I	---	5		
	21	R.	EII	+1.88		+0.15	I	---	4		
	22	Fn.	EII	+1.93		+0.92	I	2.4	3		
	23	Hd.	EII	−0.31		+0.40	0	---	3		
	25	Fn.	WII	−3.18		+0.91	II	1.9	3½		
	26	Hd.	WII	+2.17		+0.44	II	2.6	3		
	29	Fn.	WII	−0.89		+0.63	I	---	3½		
	30	Hd.	WII	−0.11		+0.45	II	2.1	2		
Dec.	3	R.	WII	−0.52		+0.34	II	2.1	2		
	6	Fn.	WII	+0.70		+0.13	I	---	3		
	7	Hd.	WII	+1.25		+0.22	II	2.1	2		
	9	Fn.	WII	----		+1.48	II	1.9	3½		
	12	R.	EII	−0.15		−0.11	II	2.1	2		
	13	Hd.	EII	−0.37		+0.05	0	---	3		

1912				s	″	″					
Dec.	14	R.	EII	+0.90		−0.12	II	2.6	2		
	15	R.	EII	+2.27		+0.25	I	---	4		
	20	R.	EII	----		+0.45	I	---	--		R.
	20	R.	EII	−0.57		+0.07	II	2.6	2		
	22	R.	WII	----		−0.23	II	2.6	2		R.
	22	R.	WII	+1.21		+0.44	II	2.6	2		
	27	R.	WII	+0.35		−0.02	I	---	--		
	28	R.	WII	+0.87		+0.75	II	2.6	3½		
1913											
Jan.	2	Hd.	WII	+1.26		−0.29	0	---	2½		
	9	Hd.	WII	----		+0.67	I	1.9	2		R.
	9	Hd.	WII	+3.08		−0.29	II	2.1	2		
	13	Hd.	WII	----		+1.42	II	3.1	--		R.
	13	Hd.	WII	+2.34		−0.05	II	2.1	2½		
	14	Fn.	WII	----		+0.65	I	3.4	3		R.
	14	Fn.	WII	+3.49		+1.18	II	2.1	3		
	15	Hd.	WII	----		+0.26	I	2.9	4		R.
	15	Hd.	WII	−0.36		−0.32	II	2.6	4		
	19	Hd.	EII	----		+1.04	I	---	2		R.
	19	Hd.	EII	+2.55		+0.15	II	2.6	2		
	21	Fn.	EII	----	−0.35	−0.38	I	---	3		R.
	21	Fn.	EII	+0.33	+0.19	+0.16	I	---	3		
	25	R.	EII	----	+0.20	+0.28	I	---	2		R.
	25	R.	EII	+1.08	−0.04	+0.04	I	---	2		
	26	Hd.	EII	----	+0.41	+0.26	I	---	3		R.
	26	Hd.	EII	−0.50	+0.40	+0.25	I	---	3		
	28	Fn.	EII	+1.83	−0.12	−0.15	I	---	3		
	30	Hd.	WII	----	−0.17	−0.32	0	---	3		R.
	30	Hd.	WII	+0.62	−0.02	−0.17	I	---	3		
Feb.	1	R.	WII	+1.91	+0.44	+0.25	0	---	4½		
	2	R.	WII	----	+0.21	+0.12	0	---	2½		R.
	2	R.	WII	−0.43	−0.18	−0.27	I	---	2½		
	4	Fn.	WII	----	+0.30	+0.20	0	---	3		R.
	4	Fn.	WII	+1.92	−0.12	−0.22	0	---	3		
	5	Hd.	WII	----	−0.37	−0.47	I	---	3		R.
	5	Hd.	WII	−0.02	−0.21	−0.31	I	---	3		
	7	R.	WII	----	−0.07	−0.16	0	---	--		R.
	7	R.	WII	−1.34	+0.32	+0.23	0	---	--		
	8	R.	WII	----	+0.43	+0.33	0	---	2½		R.
	8	R.	WII	−1.60	−0.02	−0.12	I	---	2½		
	14	R.	WII	----	−0.69	−0.59	--	---	2½		R.
	14	R.	WII	−0.79	+0.02	+0.12	II	---	2½		
	23	R.	EII	+0.55	+0.34	+0.39	0	---	5		
Mar.	5	R.	EII	−2.63	−0.58	−0.72	0	---	5		
	17	R.	WII	+0.63	−1.12	−1.42	0	---	5		
	18	R.	WII	+2.97	−0.62	−0.65	0	---	5		
	28	Hd.	EII	+1.70	−0.82	−1.20	0	---	4		
	29	R.	EII	+0.12	−0.41	−0.56	0	---	5		
Apr.	1	Hd.	EII	+1.73	----	----	0	---	5		
	5	Hd.	WII	+0.89	−1.53	−1.84	0	---	5		
	7	Fn.	WII	−0.77	−0.17	−0.39	0	---	3½		
	8	Hd.	WII	−1.77	−0.91	−1.16	0	---	4		
	16	R.	WII	+0.75	−0.01	−0.29	0	---	4		
	17	Fn.	WII	−0.97	−0.29	−0.47	0	---	3½		
	18	R.	WII	+2.20	−0.61	−0.77	0	---	--		
	20	Hd.	EII	+2.64	−0.79	−1.11	0	---	4		
	21	Fn.	EII	+1.15	−1.01	−1.20	0	---	3½		
	29	R.	EII	+2.23	+2.20	+2.06	0	---	5		
	30	Hd.	EII	−0.79	−0.24	−0.42	0	---	--		
May	1	Fn.	EII	+0.17	+0.36	+0.33	0	---	3		
	2	R.	EII	+0.21	−0.96	−1.11	0	---	5		
	7	Hd.	EII	+3.04	−0.69	−0.99	0	---	4		
	8	Fn.	EII	−0.09	−0.31	−0.49	0	---	3½		
	9	R.	EII	−0.82	+0.18	−0.02	0	---	5		
	11	Hd.	WII	−3.17	−1.43	−1.81	0	---	4		
	14	Hd.	WII	+1.34	----	----	0	---	3½		
	18	Hd.	WII	−0.73	−0.35	−0.54	0	---	3		
	25	Hd.	WII	+0.88	+0.90	+0.67	0	---	3		
	28	Hd.	WII	−0.44	+0.23	+0.20	0	---	3		
	30	R.	WII	+1.25	−0.56	−0.51	0	---	2½		
June	1	Hd.	WII	+2.13	−0.16	−0.19	0	---	2		
	2	Fn.	WII	+2.03	−0.41	−0.23	0	---	--		
	4	Hd.	WII	+1.90	−0.24	−0.19	0	---	3		
	5	Fn.	WII	+5.59	----	----	0	---	3½		
	9	R.	WII	+0.91	−0.37	−0.23	0	---	2½		
	11	Hd.	EII	+2.00	−0.40	−0.26	0	---	3		
	12	Fn.	EII	+2.05	+0.04	+0.20	0	---	3		
	15	Hd.	EII	+1.00	−0.72	−0.34	0	---	3		

				s	"	"				
1913										
June	17	*R.*	*EII*	*+1.51*	*+0.09*	*+0.14*	*0*	---	*3*	
	26	*Fn.*	*EII*	*+1.43*	*−0.81*	*−0.72*	*0*	---	*3½*	
	27	*R.*	*EII*	*+0.20*	*+0.47*	*+0.50*	*0*	---	*3½*	
	29	*Hd.*	*EII*	*+0.96*	*−0.01*	*+0.22*	*0*	---	*3*	
	30	*Fn.*	*EII*	*+0.19*	*+0.15*	*+0.29*	*0*	---	*3½*	
July	1	*Hd.*	*EII*	*−0.43*	*+0.26*	*+0.39*	*0*	---	*3*	
	2	*R.*	*EII*	*−0.28*	*+0.27*	*+0.36*	*0*	---	--	
	6	*Hd.*	*WII*	*+0.86*	*−0.50*	*−0.57*	*0*	---	*3½*	
	7	*Fn.*	*WII*	*+1.11*	*+0.07*	*+0.24*	*0*	---	*3*	
	8	*Hd.*	*WII*	*+1.61*	*−0.33*	*−0.10*	*0*	---	*3*	
	10	*Hd.*	*WII*	*+1.17*	*+0.44*	*+0.44*	*0*	---	*3*	
1914										
Jan.	10	Hd.	EI	−0.16		−0.26	I	---	3½	
	12	R.	EI	+1.56		−1.23	I	---	--	
	13	Wy.	EI	+2.29		−0.83	I	---	--	
	14	Hd.	EI	----		+0.23	I	---	2	R.
	14	Hd.	EI	+0.29		+0.27	II	2.6	2	
	15	R.	EI	----		−0.22	I	---	4	R.
	15	R.	EI	+3.50		+0.62	I	2.9	4	
	22	*Hd.*	*WI*	----	*+1.05*	*+1.05*	*I*	---	*2*	*R.*
	22	*Hd.*	*WI*	*+1.09*	*−0.15*	*−0.15*	*I*	---	*2*	
	23	*Fn.*	*WI*	----	*+0.11*	*+0.11*	*0*	---	*3½*	*R.*
	23	*Fn.*	*WI*	*−0.34*	*−0.48*	*−0.48*	*0*	---	*3½*	
	25	*Fn.*	*WI*	*+0.64*	*+0.37*	*+0.29*	*I*	---	*2½*	
	26	*R.*	*WI*	*−1.43*	*+1.00*	*+0.97*	*0*	---	--	
	27	*Fn.*	*WI*	*−1.28*	*+0.52*	*+0.42*	*0*	---	*3½*	
	28	*Wy.*	*WI*	*+1.34*	*+0.12*	*+0.29*	*0*	---	*4*	
	29	*R.*	*WI*	*−0.06*	*+1.10*	*+0.93*	*0*	---	*5*	
	31	*Wy.*	*WI*	*−0.31*	*0.00*	*−0.19*	*0*	---	*5*	
Feb.	2	*Fn.*	*WI*	----	*+0.85*	*+0.70*	*0*	---	*3*	*R.*
	2	*Fn.*	*WI*	*−0.38*	*−1.12*	*−1.27*	*0*	---	*3*	
	3	*Wy.*	*EI*	----	*+0.61*	*+0.49*	*0*	---	*3*	*R.*
	3	*Wy.*	*EI*	*−1.04*	*+0.38*	*+0.26*	*0*	---	*3*	
	4	*Hd.*	*EI*	*−0.11*	*+0.40*	*+0.37*	*I*	---	*2*	
	7	*Hd.*	*EI*	*−1.08*	*−0.02*	*−0.20*	*0*	---	*3½*	
	9	*Fn.*	*EI*	----	*+0.09*	*−0.07*	*0*	---	*3½*	*R.*
	9	*Fn.*	*EI*	*−1.18*	*+0.38*	*+0.22*	*0*	---	*3½*	
	11	*Hd.*	*EI*	*+1.03*	*+0.68*	*+0.63*	*0*	---	*2*	
	15	*Wy.*	*WI*	*−1.62*	*−0.36*	*−0.61*	*0*	---	*3*	
Apr.	10	*Wy.*	*WI*	*+0.12*	*−0.46*	*−1.11*	*0*	---	*5*	
	13	*Fn.*	*EI*	*+1.54*	*−0.23*	*−0.80*	*0*	---	*3½*	
	16	*Wy.*	*EI*	*+0.21*	*−0.77*	*−1.10*	*0*	---	*4*	
	17	*Hd.*	*EI*	*+1.01*	*−0.37*	*−0.57*	*0*	---	*3½*	
	21	*Fn.*	*EI*	*−1.01*	*−0.64*	*−0.98*	*0*	---	*4*	
	26	*Wy.*	*EI*	*+0.56*	*−0.81*	*−0.99*	*0*	---	*3½*	
	27	*Hd.*	*EI*	*+3.49*	*−1.28*	*−1.67*	*0*	---	*3½*	
	29	*Wy.*	*WI*	*+3.40*	*+1.22*	*+1.08*	*0*	---	*4*	
	30	*Hd.*	*WI*	*+1.24*	*−1.37*	*−1.66*	*0*	---	*3½*	
May	1	*Fn.*	*WI*	*−1.28*	*−0.26*	*−0.54*	*0*	---	*3½*	
	5	*Fn.*	*WI*	*−0.82*	*−0.48*	*−0.64*	*0*	---	*4*	
	6	*Wy.*	*WI*	*+0.67*	*−0.27*	*−0.55*	*0*	---	*4*	
	8	*Fn.*	*WI*	*−0.81*	*+0.31*	*+0.13*	*0*	---	*4*	
	10	*Hd.*	*WI*	*+0.83*	*+0.03*	*−0.15*	*0*	---	*3½*	
	11	*Wy.*	*WI*	*+2.04*	----	----	*0*	---	*4*	
	13	*Hd.*	*WI*	*−1.35*	*−0.08*	*−0.29*	*0*	---	*3½*	
	14	*Wy.*	*WI*	*+1.58*	*−0.19*	*−0.28*	*0*	---	*3½*	
	15	*Fn.*	*WI*	*−0.10*	*+0.20*	*+0.01*	*0*	---	*3½*	
	17	*Fn.*	*WI*	*+1.37*	*−0.28*	*−0.33*	*0*	---	*3½*	
	18	*Wy.*	*WI*	*+3.94*	*−1.32*	*−1.32*	*0*	---	*3*	
	19	*Hd.*	*WI*	*+0.68*	*−0.36*	*−0.47*	*0*	---	*3*	
	20	*Fn.*	*WI*	*+0.15*	*+0.11*	*+0.09*	*0*	---	*3½*	
	21	*Wy*	*WI*	*+1.70*	*−0.57*	*−0.63*	*0*	---	*4*	
	22	*Hd.*	*EI*	*+1.98*	*+0.30*	*+0.17*	*0*	---	--	
	25	*Wy.*	*EI*	*+1.23*	*−0.36*	*−0.47*	*0*	---	*3½*	
	26	*Hd.*	*EI*	*+1.57*	*−0.61*	*−0.69*	*0*	---	*3*	
	31	*Hd.*	*EI*	*+0.17*	*−0.67*	*−0.70*	*0*	---	*3*	
June	1	*Fn.*	*EI*	*+2.28*	*−0.28*	*−0.33*	*0*	---	*3*	
	2	*Wy.*	*EI*	*+0.30*	*−0.89*	*−0.89*	*0*	---	*3*	
	4	*Fn.*	*EI*	*+1.31*	*−0.75*	*−0.90*	*0*	---	*3½*	
	5	*Wy.*	*EI*	*+1.14*	*−0.84*	*−0.88*	*0*	---	*4*	
	7	*Fn.*	*EI*	*+1.64*	*−0.50*	*−0.41*	*0*	---	*3½*	
	11	*Hd.*	*EI*	*+1.19*	*−0.73*	*−0.39*	*0*	---	*3*	
	12	*Wy.*	*EI*	*−0.26*	*−1.10*	*−0.92*	*0*	---	*3½*	
	14	*Fn.*	*EI*	*+0.01*	*−0.71*	*−0.53*	*0*	---	*3½*	
	15	*Hd.*	*EI*	*+2.40*	*−0.48*	*−0.43*	*0*	---	*3½*	
	16	*Wy.*	*EI*	*+0.56*	*−0.20*	*+0.12*	*0*	---	*3½*	
	17	*Fn.*	*EI*	*+2.57*	*−0.58*	*−0.17*	*0*	---	*4*	
	19	*Wy.*	*WI*	*+3.46*	*−0.05*	*−0.10*	*0*	---	*3½*	
1914										
June	23	*Wy.*	*WI*	*+1.97*	*+0.17*	*+0.28*	*0*	---	*3*	
	28	*Fn.*	*WI*	*+0.72*	*−0.87*	*−0.43*	*0*	---	*3½*	
	29	*Hd.*	*WI*	*−0.21*	*+0.25*	*+0.24*	*0*	---	*3½*	
	30	*Wy.*	*WI*	*+1.99*	*−0.03*	*+0.13*	*0*	---	*3½*	
July	2	*Hd.*	*WI*	*−0.06*	*+0.22*	*+0.24*	*0*	---	*2½*	
	5	*Fn.*	*WI*	----	*+0.06*	*+0.06*	*0*	---	*2½*	
	10	*Hd.*	*WI*	*−0.63*	*−0.11*	*−0.16*	*0*	---	*3*	
	16	*Hd.*	*WI*	*−0.99*	*+0.45*	*+0.44*	*0*	---	*2*	
	19	*Fn.*	*EI*	*+1.42*	*+0.44*	*+0.39*	*0*	---	*3*	
	20	*Hd.*	*EI*	*+1.72*	*+0.46*	*+0.43*	*0*	---	*3*	
	21	*Fn.*	*EI*	*+1.38*	*+0.30*	*+0.27*	*0*	---	*3½*	
	26	*Fn.*	*EI*	*+1.65*	*−0.01*	*−0.06*	*0*	---	*2*	
	28	*Fn.*	*EI*	*−0.86*	*+0.38*	*+0.30*	*I*	---	*3*	
	29	*Hd.*	*EI*	*−0.25*	*−0.56*	*−0.63*	*I*	---	*3*	
Aug.	3	Fn.	EI	+2.14		−0.27	I	2.9	3	
	7	Hd.	EI	+0.96		+0.20	I	2.9	3	
	8	Wy.	EI	+2.01		+0.28	II	2.1	3	
	12	Fn.	WI	+0.49		−0.18	I	2.9	2½	
	13	Hd.	WI	+1.65		+0.04	II	2.1	2	
	14	Wy.	WI	+1.11		+0.48	II	2.1	3	
	17	Fn.	WI	+0.97		+0.45	0	---	3	
	18	Wy.	WI	+1.21		+0.31	II	2.6	3	
	20	Fn.	WI	+0.63		+0.91	I	2.4	3	
	21	Wy.	WI	----		+0.26	I	---	3	
	22	An.	WI	+1.50		+0.56	II	2.1	2½	
	31	Fn.	WI	+1.70		+0.66	I	2.9	2½	
Sept.	1	An.	WI	+0.40		+0.35	II	2.6	3	
	2	Wy.	WI	+1.10		+0.10	II	2.1	2½	
	4	Fn.	WI	+1.75		+0.10	I	1.9	3½	
	9	Fn.	EI	+1.46		+0.24	I	2.4	3½	
	10	An.	EI	−0.33		−0.69	0	---	2½	
	14	Fn.	EI	+2.54		+0.21	0	---	3	
	15	An.	EI	+0.76		+0.87	II	1.6	3	
	17	Fn.	EI	+4.46		+0.65	I	2.4	3	
	19	Wy.	EI	+0.37		−0.01	II	2.6	2	
	20	An.	EI	−0.58		−0.67	II	3.1	3	
	21	Hd.	EI	+2.84		+0.23	II	2.1	2½	
	22	Wy.	EI	+2.84		−0.32	II	2.1	2½	
	23	An.	EI	+1.62		−0.26	II	2.6	3	
	25	Wy.	EI	−0.19		−0.21	II	2.1	3	
	26	An.	EI	+1.85		+0.88	II	2.1	3	
	28	Hd.	WI	+1.32		+0.24	II	2.6	2	
	29	Wy.	WI	+0.21		+0.72	0	---	3	
	30	An.	WI	−1.70		+0.11	II	2.6	3	
Oct.	1	Hd.	WI	+0.72		+0.73	II	2.1	2½	
	2	Wy.	WI	−0.21		+0.57	II	2.6	2½	
	5	Wy.	WI	+0.27		+0.42	II	2.6	2½	
	9	Hd.	WI	+0.73		+0.81	II	2.6	3	
	12	Hd.	WI	−1.22		+0.66	I	2.9	3	
	19	Hd.	EI	+1.34		+0.12	II	2.6	2½	
	22	Hd.	EI	+0.55		----	II	2.6	3	
Nov.	7	Hd.	WI	+0.36		+1.02	I	---	3	
	13	Fn.	WI	+1.13		----	I	---	4	
	21	Fn.	EI	+1.11		----	I	1.9	3	
	26	Wy.	EI	+1.79		----	I	3.4	3½	
	28	Wy.	EI	−1.30		----	0	---	3	
Dec.	3	Fn.	WI	−1.85		+0.39	I	2.9	2½	
	12	An.	WI	−0.80		−0.51	II	3.6	3	
	14	Fn.	EI	+2.98		----	I	2.4	3½	
	16	An.	WI	+3.14		+1.00	II	3.1	2½	
	17	Fn.	WI	−1.37		+0.87	I	2.4	2½	
	21	Fn.	WI	−1.27		+0.08	I	2.4	3½	
	22	Wy.	WI	+0.67		+0.85	I	3.4	4	
	30	An.	EI	+1.63		+0.71	I	3.4	4	
	31	Fn.	EI	+0.14		+0.68	0	---	2½	
1915										
Jan.	3	An.	EI	−0.41		+1.29	0	---	3	
	4	Hd.	EI	+1.49		+0.61	II	2.6	3	
	5	Wy.	EI	----		+0.73	I	---	3	R.
	5	Wy.	EI	+1.19		+0.84	II	2.6	2½	
	7	Hd.	EI	+2.62		−0.06	II	2.6	3	
	8	Wy.	EI	----		+1.07	0	---	3	R.
	8	Wy.	EI	+0.73		+0.24	I	---	2½	
	9	An.	EI	+0.74		−0.10	II	---	3	
	10	Wy.	WI	−2.48		+0.04	II	2.6	2½	
	13	An.	WI	+1.17		+0.15	II	3.1	2½	
	14	Hd.	WI	+0.90		+1.16	I	2.9	3	
	15	Fn.	WI	----		+1.07	I	---	3	R.

1915			s	″	″					
Jan. 15	Fn.	WI	+1.17		+0.63	I	1	9	3	
21	Wy.	EI	+1.42		+0.65	I	2	9	3	
26	An.	EI	−0.94	+1.07	+1.04	I	---		3	
29	Wy.	EI	+0.11	+0.07	+0.01	I	---		3	
Mar. 29	Fn.	EI	−1.54	+0.05	−0.22	0	---		3½	
30	Wy.	EI	−1.96	----	----	0	---		4	
Apr. 1	Fn.	EI	+3.50	----	----	0	---		4	
7	An.	EI	+1.53	+0.22	+0.14	0	---		3½	
8	Hd.	EI	+2.07	−0.08	−0.32	0	---		3	
10	An.	EI	+0.28	+0.10	+0.01	0	---		--	
12	Hd.	WI	−0.94	−0.81	−1.23	0	---		4	
13	Fn.	WI	+1.41	+0.15	−0.10	0	---		4	
14	An.	WI	+1.77	+1.13	+0.91	0	---		3½	
14	Hd.	WI	−0.03	−1.00	−1.52	0	---		5	
15	Fn.	WI	−1.79	−0.84	−1.15	0	---		4½	
16	An.	WI	+2.16	----	----	0	---		4½	
24	Wy.	WI	+0.31	−0.37	−0.46	0	---		4½	
25	Fn.	EI	+2.43	+0.17	−0.16	0	---		4½	
27	Hd.	EI	+2.18	−0.37	−0.63	0	---		4	
29	Wy.	EI	+1.61	−1.24	−1.38	0	---		4	
30	Hd.	EI	+1.73	−0.94	−1.19	0	---		4	
May 5	Fn.	EI	−0.09	−0.87	−1.17	0	---		4	
8	Wy.	EI	−0.98	−0.59	−0.77	0	---		4½	
12	Hd.	WI	+0.18	−1.36	−1.46	0	---		3	
13	Fn.	WI	+2.41	−0.19	−0.35	0	---		3½	
17	Wy.	EI	+1.02	−0.74	−0.96	0	---		4½	
18	Fn.	EI	+4.28	−0.24	−0.44	0	---		4	
21	Fn.	WI	−0.34	−0.67	−0.61	0	---		3½	
22	Wy.	WI	+0.12	−0.57	−0.72	0	---		3½	
24	Fn.	WI	−2.90	−0.55	−0.62	0	---		3½	
26	Wy.	WI	+4.57	−0.08	−0.35	0	---		4	
30	Wy.	WI	−0.17	−0.03	−0.08	0	---		3½	
June 4	Hd.	WI	+2.44	+0.20	+0.20	0	---		3	
6	Fn.	EI	+1.48	−0.78	−0.61	0	---		3½	
7	Hd.	EI	−0.11	−0.12	−0.15	0	---		2½	
8	An.	EI	−1.94	----	----	0	---		3	
9	Fn.	EI	+0.16	−0.20	−0.23	0	---		3½	
11	An.	WI	+2.25	−0.12	−0.12	0	---		--	
15	Wy.	WI	+1.06	+0.62	+0.64	0	---		3½	
17	Hd.	WI	+0.64	−0.34	−0.15	0	---		3	
22	An.	EI	+0.96	+0.04	+0.14	0	---		3½	
23	Fn.	EI	+2.95	−0.35	−0.21	0	---		3½	
24	Wy.	EI	+2.15	+0.45	+0.82	0	---		3½	
26	Wy.	EI	+1.20	−0.10	+0.01	0	---		3½	
27	Wy.	EI	−0.45	+0.16	+0.21	0	---		3½	
28	Hd.	EI	+1.75	−0.39	−0.05	0	---		3	
30	Wy.	WI	−0.23	−0.28	−0.21	0	---		3	
July 1	Hd.	WI	+2.99	−0.37	−0.18	0	---		3	
5	Fn.	WI	−0.26	−0.54	−0.14	0	---		3	
6	An.	WI	+1.11	+0.16	+0.32	0	---		3½	
8	Fn.	WI	+0.66	−0.17	−0.21	0	---		3	
13	An.	WI	+0.64	−0.08	−0.07	0	---		3	
16	An.	WI	+1.05	+0.71	+0.74	I	---		3	
17	Fn.	WI	−0.75	−0.32	−0.34	0	---		3	
18	Hd.	WI	+0.44	+0.18	+0.12	0	---		2½	
20	Fn.	EI	+1.64	+0.56	+0.54	0	---		3	
21	Hd.	EI	+1.83	+0.26	+0.21	I	---		2	
23	Fn.	EI	+1.11	+0.24	+0.18	0	---		2½	
25	Hd.	EI	+2.12	+0.44	+0.44	I	---		2	
26	An.	EI	−1.27	+0.84	+0.83	I	---		3	
31	Fn.	EI	+1.02	+0.16	+0.18	I	---		2½	
Aug. 2	Fn.	EI	+2.01	+0.10	+0.03	I	---		2½	
9	Fn.	EI	+2.87		+0.60	I	2	4	3	
10	An.	EI	+0.12		----	0	---		3	
12	Fn.	EI	+1.96		+0.01	I	---		3	
13	An.	EI	+0.17		+0.29	II	3	6	3	
15	An.	EI	+0.51		+0.97	II	3	1	2½	
16	Fn.	EI	+1.60		+0.33	I	---		3	
17	An.	WI	+0.87		+0.45	II	3	1	3½	
18	Wy.	WI	+2.63		−0.19	II	2	6	3	
19	Fn.	WI	+0.66		+0.21	0	---		3	
23	Wy.	WI	−0.45		+0.02	II	2	6	2½	
25	Wy.	WI	+0.50		+0.68	II	2	6	3	
31	Wy.	WI	+0.38		+0.43	II	3	1	3½	
Sept. 1	Hd.	WI	+2.18		+0.06	I	---		3½	
3	Hd.	WI	+1.09		+0.29	II	3	1	2	
7	Wy.	WI	+0.59		+0.33	I	2	9	2½	
8	Hd.	WI	+3.17		+0.86	II	2	1	2	

1915			s	″	″					
Sept. 9	Wy.	WI	+1.98		+0.14	I	2	9	3	
13	Hd.	EI	+1.84		+0.62	II	2	1	2	
14	Wy.	EI	+1.29		+0.52	I	2	9	2½	
15	Hd.	EI	+1.23		−0.01	I	---		2	
16	Wy.	EI	+2.36		+0.17	II	2	6	3	
21	Wy.	EI	+1.69		+0.22	II	2	6	3	
22	Wy.	EI	+0.07		+1.40	II	2	6	2½	
24	Hd.	EI	−0.06		+0.66	II	2	6	2	
27	Wy.	EI	+0.40		+0.77	I	2	9	3	
28	Hd.	EI	−0.08		+0.81	II	2	6	3	
29	Fn.	EI	+1.77		+0.36	I	---		3	
Oct. 9	Hd.	WI	+1.86		+0.22	II	2	6	3	
11	Hd.	WI	−0.33		+0.15	II	2	6	3	
12	Fn.	WI	−1.09		+0.60	I	1	9	3	
30	Wy.	EI	+1.64		+0.51	I	2	9	3	
Nov. 2	Wy.	EI	+0.46		+1.09	II	2	6	3	
3	Hd.	EI	+0.70		+1.06	II	2	6	3	
5	Wy.	EI	−1.16		+0.33	I	2	9	2½	
6	Hd.	EI	+0.14		−0.14	I	---		2	
10	Fn.	WI	+0.45		+0.37	I	2	4	2½	
17	Wy.	WI	----		+0.58	I	---		3½	R.
17	Wy.	WI	+0.18		+0.21	II	2	6	3½	
19	Fn.	EI	+1.91		−0.07	I	---		3	
20	Wy.	EI	+0.29		+0.51	I	2	9	4	
22	Fn.	EI	----		−0.55	0	---		2½	R.
22	Fn.	EI	+0.39		+0.62	0	---		2½	
24	Hd.	EI	----		−0.17	I	---		3	R.
24	Hd.	EI	−1.24		+0.81	II	2	6	2	
26	Wy.	EI	----		+0.71	I	---		3	R.
26	Wy.	EI	+1.05		+0.46	II	2	6	3	
30	Fn.	EI	----		−0.44	I	---		3	R.
30	Fn.	EI	+2.04		+0.70	I	2	4	3	
Dec. 2	Wy.	EI	----		−0.40	I	---		3½	R.
2	Wy.	EI	+2.66		−0.11	I	---		3½	
3	Fn.	EI	----		+0.04	0	---		2½	R.
3	Fn.	EI	+1.55		+0.40	I	---		2½	
6	Fn.	WI	−0.26		+0.30	I	1	9	3	
7	Wy.	WI	----		+0.92	I	---		3	R.
7	Wy.	WI	+1.31		+0.78	I	---		2½	
10	Wy.	WI	----		+0.34	I	---		2½	R.
10	Wy.	WI	+0.92		+0.62	II	2	1	2½	
11	Fn.	WI	+1.66		+1.75	0	---		3	
15	Fn.	WI	----		+0.72	I	---		3½	R.
15	Fn.	WI	+0.88		+0.87	I	1	9	3	
27	Wy.	WI	−0.64		−0.42	I	---		3½	
1916										
Jan. 4	Fn.	EI	----		+0.11	0	---		3	R.
4	Fn.	EI	+2.20		+0.29	I	---		3	
8	Hd.	EI	+0.15		+0.84	II	2	6	3	
14	Wy.	EI	+1.33		+0.68	I	2	9	3	
18	Hd.	EI	+1.79		+0.43	II	2	6	3	
19	Wy.	EI	+1.35		+0.80	I	---		3½	
23	Fn.	EI	----	+0.12	+0.04	I	---		3	R.
23	Fn.	EI	+3.89	+0.45	+0.37	I	---		2½	
24	Hd.	EI	−0.57	+0.20	+0.20	II	---		2	
Feb. 3	Wy.	EI	+2.67	+0.89	+0.66	0	---		3½	
10	Fn.	WI	+1.24	----	----	0	---		3½	
11	Hd.	WI	−0.46	+0.62	+0.51	0	---		3	
15	Fn.	WI	+0.79	+0.11	−0.05	0	---		3	
Mar. 4	Fn.	WI	+3.12	−0.37	−0.68	0	---		3½	
7	Wy.	WI	+3.17	+0.90	+0.80	0	---		5	
8	Hd.	WI	+0.20	+0.17	−0.12	0	---		3½	
9	Wy.	WI	+3.06	+0.89	+0.63	0	---		4	
May 31	Fn.	EI	+1.28	−0.47	−0.60	0	---		1½	
June 1	Hd.	EI	+0.98	−0.85	−0.72	0	---		3½	
5	Wy.	EI	−1.56	−0.87	−0.89	0	---		3½	
11	Wy.	EI	+0.15	−0.71	−0.54	0	---		3½	
12	Fn.	EI	+0.87	−0.60	−0.58	0	---		3½	
18	Fn.	WI	+0.23	0.00	+0.16	0	---		4	
21	Fn.	WI	+0.19	+0.07	+0.10	0	---		3½	
22	Hd.	WI	+1.86	−0.39	−0.32	0	---		3	
28	Hd.	WI	+0.47	−0.54	−0.47	0	---		3	
July 2	Wy.	WI	+1.83	−0.38	−0.15	0	---		3½	
5	Wy.	EI	−0.59	−0.56	−0.35	0	---		3	
6	Fn.	EI	+2.31	−1.14	−0.73	0	---		3½	
12	Hd.	EI	+1.89	−0.31	−0.22	0	---		3½	
19	Hd.	EI	+1.34	−0.06	−0.10	0	---		2	
20	Wy.	EI	+0.34	+0.41	+0.40	0	---		3	

				s	"	"			
1916									
Aug.	*1*	*Fn.*	*WI*	*−0. 20*	*−0. 05*	*−0. 10*	*0*	---	*3*
	2	*Hd.*	*WI*	*+1. 72*	*+0. 29*	*+0. 26*	*II*	---	*2*
	3	*Fn.*	*WI*	*−0. 77*	*+1. 18*	*+1. 13*	*0*	---	*3*
	7	Fn.	EI	+1. 63		−0. 31	I	2. 4	3
	16	Fn.	EI	+1. 17		−0. 76	I	1. 9	3
	17	Wy.	EI	−0. 63		−0. 06	II	2. 1	2
	21	Fn.	EI	+2. 35		−1. 08	I	2. 4	3
	24	Fn.	WI	−0. 07		+0. 35	I	---	3
	28	Fn.	WI	−2. 33		−0. 75	0	---	3
Sept.	7	Wy.	WI	+0. 99		+1. 01	I	2. 9	4
Oct.	23	Wy.	WI	+1. 42		−0. 19	I	2. 9	3½
	26	Wy.	EI	+0. 24		+0. 42	I	---	3½
Nov.	3	Fn.	EI	+1. 71		+1. 03	I	2. 4	2½
	7	Wy.	EI	+0. 23		+0. 03	I	2. 9	2½
	10	Fn.	EI	+0. 99		+1. 01	I	1. 9	3
	20	Fn.	WI	−0. 45		+0. 13	I	2. 4	3
	24	Fn.	WI	−0. 21		−0. 58	I	1. 9	3
	27	Wy.	WI	+0. 33		+0. 16	I	3. 4	3
Dec.	26	Fn.	WI	+1. 16		+0. 91	I	---	3
	28	Fn.	WI	−0. 74		----	I	2. 4	3½
	29	Hd.	WI	−0. 18		+0. 41	II	3. 1	2
1917									
Jan.	2	Wy.	WI	+3. 11		+1. 14	II	2. 1	3
	8	Wy.	EI	−0. 26		−0. 01	I	2. 9	3
	9	Fn.	EI	+0. 55		+0. 64	I	2. 4	3½
	18	Fn.	EI	+2. 02		+0. 39	I	---	4
Mar.	*12*	*Hd.*	*EI*	*+2. 69*	*−0. 01*	*−0. 16*	*0*	---	*4*
	15	*Wy.*	*EI*	*−1. 48*	*−0. 40*	*−0. 61*	*0*	---	*3½*
	16	*Hd.*	*EI*	*−0. 11*	*+0. 01*	*−0. 42*	*0*	---	*4*
	19	*Fn.*	*EI*	*+1. 02*	*−0. 64*	*−0. 98*	*0*	---	*4*
	20	*Hd.*	*EI*	*+0. 94*	*+0. 15*	*+0. 06*	*0*	---	*3½*
	22	*Fn.*	*EI*	*−1. 56*	*−0. 95*	*−1. 12*	*0*	---	*3½*
	30	*Fn.*	*WI*	*+0. 81*	*−0. 84*	*−1. 13*	*0*	---	*3½*
Apr.	*9*	*Hd.*	*WI*	*+0. 07*	*+1. 16*	*+0. 96*	*0*	---	*3½*
	10	*Fn.*	*WI*	*−5. 13*	*+0. 21*	*−0. 16*	*0*	---	*4*
	15	*Fn.*	*WI*	*−0. 96*	*−0. 45*	*−0. 90*	*0*	---	*4*
	16	*Wy.*	*WI*	*+0. 15*	*−1. 73*	*−2. 13*	*0*	---	*4½*
	18	*Fn.*	*EI*	*+1. 09*	*+0. 03*	*−0. 10*	*0*	---	*4*
	22	*Wy.*	*EI*	*+0. 31*	*−1. 25*	*−1. 54*	*0*	---	*3½*
	23	*Hd.*	*EI*	*−0. 79*	*−0. 42*	*−0. 75*	*0*	---	*4*
	26	*Hd.*	*EI*	*−1. 99*	*−0. 88*	*−1. 16*	*0*	---	*3½*
	29	*Hd.*	*EI*	*−0. 70*	*−0. 53*	*−0. 83*	*0*	---	*3½*
	30	*Fn.*	*EI*	*+2. 07*	*−1. 43*	*−1. 65*	*0*	---	*3½*
May	*9*	*Fn.*	*WI*	*−1. 98*	*−1. 26*	*−1. 39*	*0*	---	*3½*
	10	*Fn.*	*WI*	*+1. 99*	*+0. 01*	*−0. 17*	*0*	---	*3½*
	14	*Hd.*	*WI*	*+0. 76*	*−1. 11*	*−1. 20*	*0*	---	*3½*
	17	*Hd.*	*WI*	*−0. 01*	*−0. 32*	*−0. 34*	*0*	---	*3½*
June	*3*	*Wy.*	*WI*	*+2. 23*	*+0. 07*	*+0. 01*	*0*	---	*3½*
	18	*Fn.*	*WII*	*+1. 36*	*+0. 72*	*+0. 93*	*0*	---	*3*
	20	*Wy.*	*WII*	*−0. 32*	*+0. 10*	*+0. 20*	*0*	---	*3½*
	21	*Fn.*	*WII*	*+1. 00*	*−0. 22*	*+0. 09*	*0*	---	*3*
	24	*Wy.*	*WII*	*+0. 84*	----	----	*0*	---	*3½*
	27	*Wy.*	*EII*	----	*−0. 12*	*−0. 12*	*0*	---	*3½*
	28	*Hd.*	*EII*	----	*+0. 41*	*+0. 60*	*0*	---	*3½*
July	*1*	*Hd.*	*EII*	----	*−0. 38*	*−0. 11*	*0*	---	*3½*
	4	*Hd.*	*EII*	----	*−0. 03*	*+0. 24*	*0*	---	*2½*
	27	*Hd.*	*EII*	*+2. 49*	*−0. 12*	*−0. 19*	*I*	---	*2½*
	29	*Wy.*	*EII*	*+2. 06*	*+0. 12*	*+0. 18*	*I*	---	*3*
	30	*Fn.*	*EII*	*−0. 27*	*+0. 13*	*+0. 17*	*0*	---	*3½*
Aug.	*3*	*Fn.*	*WII*	*+1. 23*	*−0. 11*	*−0. 16*	*I*	---	*3*
	5	Hd.	WII	+0. 86		−0. 38	II	2. 6	2
	12	Fn.	WII	+0. 31		+0. 03	I	1. 9	2½
	13	Hd.	WII	−0. 39		+0. 09	II	2. 6	2
	17	Wy.	WII	+1. 71		−0. 87	I	2. 9	3
Oct.	15	Fn.	EII	+2. 02		+0. 25	I	2. 9	3½
	22	Hd.	EII	+0. 39		+0. 78	I	2. 9	3
	25	Hd.	EII	+0. 54		+0. 08	II	3. 1	2½
	26	Fn.	EII	+0. 36		−0. 09	I	2. 4	3
Nov.	2	Fn.	EII	+0. 34		+1. 12	I	2. 4	3
	12	Wy.	WII	−0. 14		−0. 35	I	3. 4	3
	16	Fn.	WII	+0. 11		+0. 10	I	1. 9	2½
	26	Hd.	WII	----		+0. 17	II	2. 6	2
	28	Wy.	WII	----		−0. 59	I	3. 4	4
Dec.	6	Fn.	WII	−0. 61		+0. 08	I	1. 9	2½
	10	Fn.	WII	+1. 43		+0. 34	I	2. 4	2½
	20	Hd.	EII	+1. 49		+0. 92	II	2. 6	2
	27	Fn.	EII	+0. 66		+0. 71	I	2. 9	2½

				s	"	"			
1918									
Jan.	10	Fn.	EII	+1. 15		−0. 32	I	---	3½
	19	Wy.	WII	+3. 27		+0. 15	I	2. 4	3
	21	Fn.	WII	+0. 46		+0. 52	0	---	3
Feb.	*8*	*Wy.*	*WII*	*−1. 22*	*+0. 17*	*0. 00*	*0*	---	*3½*
	11	*Wy.*	*WII*	*−0. 48*	*+0. 09*	*−0. 09*	*0*	---	*3½*
	21	*Fn.*	*EII*	*−1. 58*	*+0. 22*	*−0. 03*	*0*	---	*3½*
Mar.	*7*	*Fn.*	*EII*	*−0. 91*	*+0. 15*	*−0. 20*	*0*	---	*3½*
	8	*Wy.*	*EII*	*+0. 98*	*−0. 57*	*−0. 81*	*0*	---	*4*
	25	*Fn.*	*WII*	*+0. 12*	*−1. 54*	*−1. 77*	*0*	---	*3½*
Apr.	*5*	*Fn.*	*EII*	*+1. 15*	*−0. 90*	*−1. 27*	*0*	---	*3½*
	14	*Fn.*	*EII*	*+0. 91*	*−0. 88*	*−1. 06*	*0*	---	*3½*
	15	*Wy.*	*EII*	*+2. 78*	----	----	*0*	---	*4*
	22	*Fn.*	*EII*	----	*−0. 70*	*−1. 04*	*0*	---	*3½*
May	*1*	*Fn.*	*EII*	*−0. 45*	*−0. 18*	*−0. 40*	*0*	---	*3½*
	5	*Fn.*	*EII*	*−2. 26*	*−0. 59*	*−0. 85*	*0*	---	*3½*
	7	*Fn.*	*EII*	*+1. 86*	*−0. 71*	*−0. 89*	*0*	---	*3½*
	8	*Fn.*	*EII*	*+2. 13*	*−0. 29*	*−0. 35*	*0*	---	*3½*
	14	*Fn.*	*WII*	*−0. 48*	*−0. 87*	*−1. 12*	*0*	---	*3½*
June	*23*	*Wy.*	*WII*	*+1. 92*	*−0. 48*	*−0. 32*	*0*	---	*3½*
	26	*Wy.*	*WII*	*+2. 59*	----	----	*0*	---	*4*
	27	*Hd.*	*WII*	*+0. 72*	*−0. 15*	*+0. 08*	*0*	---	*3½*
July	*1*	*Hd.*	*WII*	*+0. 91*	*−0. 04*	*−0. 04*	*0*	---	*3*
	2	*Wy.*	*WII*	*+1. 69*	*−0. 97*	*−0. 69*	*0*	---	*3½*
	7	*Wy.*	*EII*	----	*+0. 12*	*+0. 09*	*0*	---	*3½*
	8	*Hd.*	*EII*	*0. 00*	*−0. 88*	*−0. 44*	*0*	---	*3*
	10	*Wy.*	*EII*	*−1. 15*	*−0. 39*	*−0. 27*	*0*	---	*3½*
	14	*Wy.*	*EII*	*−0. 99*	*+0. 01*	*+0. 03*	*0*	---	*3½*
	15	*Hd.*	*EII*	*+1. 31*	*+0. 13*	*+0. 15*	*I*	---	*2*
	17	*Wy.*	*EII*	*+0. 35*	*+0. 14*	*+0. 11*	*0*	---	..
	21	*Wy.*	*EII*	*−0. 48*	*+0. 19*	*+0. 08*	*0*	---	*3½*
	22	*Fn.*	*EII*	*+2. 35*	*−0. 41*	*−0. 48*	*0*	---	*2½*
	24	*Fn.*	*EII*	*+1. 07*	*−0. 45*	*−0. 59*	*0*	---	*2½*
Aug.	*1*	*Hd.*	*WII*	*+2. 59*	*+0. 26*	*+0. 21*	*I*	---	*3*
	8	Hd.	WII	−0. 80		+0. 25	I	2. 9	3
	11	Fn.	WII	−1. 20		−0. 27	I	1. 9	2½
	12	Wy.	WII	+1. 12		0. 00	I	3. 4	3
Mean			1914. 78	+0. 85		+0. 30			
			1914. 78						
Corr				−0. 08		−0. 41			

α Ursæ Minoris s. p.

h	m	s	°	′	″
1	26	56. 48	+88	49	33. 57

				s	"	"			
1911									
May	15	Fn.	WII	----		−0. 87	--	---	--
	17	T.	WII	----		−0. 73	I	---	--
	19	Hd.	WII	+1. 68		−0. 85	I	---	--
	20	T.	WII	+0. 42		−0. 42	I	---	--
	22	Fn.	WII	+0. 82		−0. 43	0	---	--
	23	Hd.	EII	+1. 07		−0. 62	0	---	--
	24	T.	EII	----		−0. 65	--	---	--
	25	Fn.	EII	+2. 22		−0. 77	--	---	--
	26	Hd.	EII	+2. 24		−0. 57	II	---	--
	27	T.	EII	----		−0. 49	--	---	--
	29	Fn.	WII	−0. 58		+1. 09	1	2. 6	--
June	1	Fn.	WII	+0. 35		−0. 63	II	---	--
	2	Hd.	WII	+2. 10		−0. 79	II	---	--
	8	Fn.	WII	+1. 61		−0. 95	II	---	--
	9	Hd.	WII	+0. 12		−0. 86	II	2. 6	2
	11	R.	EII	+1. 47		−1. 41	II	-	--
	12	Fn.	EII	+1. 11		----	-	-	--
	14	T.	EII	----		−0. 60	I	2. 4	--
	15	Fn.	EII	+1. 49		−0. 81	II	1. 7	2
	18	*R.*	*EII*	*+1. 42*	*−0. 94*	*−0. 94*	*II*	---	--
	20	*Hd.*	*EII*	*−1. 36*	*−0. 75*	*−0. 85*	*II*	-	--
	21	*T.*	*EII*	----	*−1. 04*	*−1. 14*	*I*	---	--
	22	*Fn.*	*EII*	*+0. 99*	*−1. 05*	*−0. 98*	*0*	---	--
	26	*Fn.*	*EII*	*+1. 49*	*−1. 65*	*−1. 72*	--	---	--
	28	*T.*	*WII*	----	*−0. 91*	*−1. 00*	*0*	---	--
	29	*Fn.*	*WII*	*+0. 01*	*−0. 46*	*−0. 46*	--	---	--
	30	*Hd.*	*WII*	*+1. 74*	*−0. 69*	*−0. 69*	--	---	--
July	*1*	*R.*	*WII*	*+1. 09*	*−1. 36*	*−1. 41*	--	---	--
	5	*R.*	*EII*	*+0. 43*	*−0. 48*	*−0. 48*	*0*	---	--
	6	*Hd.*	*EII*	*−0. 55*	*−1. 13*	*−1. 09*	--	---	--
	12	*Fn.*	*WII*	*−0. 89*	*−0. 07*	*−0. 12*	--	---	-
	13	*Hd.*	*WII*	*+1. 96*	*−0. 58*	*−0. 60*	--	-	--

				s	"	"					
1911											
July	14	R.	WII	+1.35	−0.95	−1.02	0	---	--		
	19	Fn.	EII	+3.21	−0.91	−0.96	0	---	--		
	20	Hd.	EII	+0.25	−0.91	−1.01	0	---	--		
	21	R.	EII	−0.67		----	0	---	4		
	22	Fn.	EII	+0.25	−1.42	−1.37	0	---	2½		
	27	Hd.	WII	−0.23	−0.69	−0.62	0	---	--		
	28	R.	WII	+1.91	−1.07	−1.07	0	---	--		
Aug.	1	R.	WII	−0.13	−1.11	−1.04	0	---	5		
	7	Fn.	WII	−0.11	−0.17	−0.17	0	---	--		
	8	R.	EII	+2.21	−0.50	−0.55	0	---	--		
	9	Fn.	EII	−0.22	−1.77	−1.67	0	---	--		
	16	Fn.	EII	0.00	−1.22	−1.14	0	---	--		
	17	R.	EII	+0.80	−1.51	−1.30	0	---	--		
	21	Fn.	EII	+3.80	+0.28	+0.48	0	---	--		
	22	R.	EII	−0.25	−0.60	−0.50	0	---	--		
	28	Fn.	WII	−0.73	−0.79	−0.69	0	---	--		
Sept.	1	Fn.	WII	+2.02	−2.06	−1.96	0	---	--		
	2	R.	WII	+2.50	−0.72	−0.57	0	---	--		
	5	Fn.	WII	+0.14	−0.51	−0.38	0	---	--		
	6	R.	WII	+1.22	+0.63	+0.93	0	---	--		
	7	Fn.	WII	+1.41	−1.22	−1.17	0	---	--		
	14	Fn.	WII	−1.21	+0.02	+0.07	0	---	--		
	20	R.	WII	+1.62	−0.74	−0.54	0	---	--		
	25	Fn.	EII	+2.06	−0.38	−0.13	0	---	--		
	30	R.	EII	+0.49	−0.72	−0.62	0	---	--		
1912											
Jan.	19	Hd.	WII	----		+0.75	0	---	--	R.	
	19	Hd.	WII	+0.19		−0.61	I	---	2		
	22	R.	EII	----		−1.56	I	---	--	R.	
	22	R.	EII	−0.03		[+0.95][1]	I	---	5		
	24	Hd.	EII	----		−0.07	I	2.9	--	R.	
	24	Hd.	EII	−1.07		−0.55	II	2.3	3½		
Feb.	2	Fn.	WII	----		+1.16	I	---	3	R.	
	2	Fn.	WII	+0.32		−1.09	II	2.5	3		
	6	Fn.	EII	----		−0.41	I	---	1½	R.	
	6	Fn.	EII	+1.12		−0.45	II	1.5	2		
	7	Hd.	EII	+1.94		−0.62	0	---	2		
	9	Fn.	EII	+1.23		−0.84	II	---	3½		
	12	R.	EII	----		+0.51	I	---	--	R.	
	12	R.	EII	+1.55		−0.72	II	---	2		
	13	Fn.	EII	----		+0.30	0	---	3½	R.	
	13	Fn.	EII	+3.81		−0.36	0	---	3½		
Apr.	23	Hd.	WII	−0.24		−1.19	II	2.1	2		
	25	Fn.	EII	+0.88		+0.14	0	---	3½		
	27	R.	EII	+0.64		+0.20	II	2.6	2½		
May	1	R.	EII	+1.29		−0.18	0	---	--		
	2	Fn.	EII	+0.51		−0.25	0	---	3½		
	3	Hd.	EII	+0.83		+0.11	II	2.6	2		
	4	R.	WII	+1.09		−0.23	II	---	--		
	9	Fn.	WII	+1.98		−1.22	II	---	3		
	13	Fn.	WII	+0.30		----	0	---	--		
	18	Hd.	EII	+2.11		−0.14	II	2.6	3		
	20	Fn.	EII	+3.86		----	I	---	--		
	21	Hd.	WII	+0.84		−0.01	II	2.6	3½		
	23	Fn.	EII	+0.93		----	II	---	1½		
	24	Hd.	EII	+0.92		−1.57	II	1.6	3		
	27	Fn.	EII	+0.61		−0.25	I	---	2½		
	28	Hd.	WII	+1.08		−0.86	II	2.6	3		
	30	Fn.	WII	+0.48		−0.40	II	---	3		
	31	Hd.	WII	+1.61		−0.38	II	2.1	2		
June	1	R.	WII	+1.48		+0.06	II	1.1	2½		
	3	Fn.	WII	+0.46		−0.77	II	1.5	2½		
	4	Hd.	EII	+2.07		−0.93	0	---	--		
	5	R.	EII	+1.68		−0.38	II	2.6	2		
	7	Hd.	EII	+2.43		----	II / I / 0		2½		
	8	R.	EII	+0.91		−0.02	II	2.6	2		
July	25	R.	WII	+2.28	−0.44	−0.44	0	---	4		
	27	Fn.	WII	+0.04	−1.48	−1.46	0	---	2½		
	28	Fn.	WII	+1.49	−1.49	−1.39	0	---	3½		
Aug.	5	R.	EII	−0.67	−0.58	−0.41	0	---	5		
	9	R.	EII	+0.96	--	---	0	---	5		
	10	Fn.	EII	+2.29	−0.33	−0.33	0	---	3½		
	14	R.	WII	+0.96	--	--	0	---	--		
	15	Fn.	WII	+3.20	−1.09	−0.95	0	---	3½		
	16	R.	WII	+1.08	+0.45	+0.59	0	---	--		

				s	"	"					
1912											
Aug.	23	R.	WII	+1.12	−0.31	−0.12	0	---	4		
	24	Fn.	WII	+0.19	−0.33	−0.15	0	---	4		
	25	R.	WII	+0.14	−0.58	−0.42	0	---	5		
	27	Fn.	WII	−1.83		----	0	---	5		
	30	R.	WII	−1.90	+0.04	+0.33	0	---	5		
Sept.	1	R.	WII	+0.66	−0.04	+0.10	0	---	5		
	6	Fn.	EII	+1.34	−0.87	−0.64	0	---	4		
	8	Hd.	EII	−0.31	−0.39	−0.18	0	---	3		
	9	R.	EII	+2.78	−1.38	−1.20	0	---	5		
	10	Hd.	EII	+1.67	−0.77	−0.61	0	---	4		
	11	R.	EII	−0.85	−0.27	+0.08	0	---	5		
	12	Hd.	WII	−0.23	+0.30	+0.54	0	---	--		
	13	R.	WII	+1.44	----	----	0	---	--		
	17	Hd.	WII	+1.07	+0.13	+0.32	0	---	3½		
	20	R.	WII	−0.59	+0.36	+0.97	0	---	5		
	28	R.	EII	−0.95	−0.68	−0.12	0	---	--		
	30	R.	EII	+0.29	−0.59	−0.21	0	---	--		
Oct.	4	R.	EII	+1.65	−0.04	+0.36	0	---	--		
	5	R.	EII	−2.65	−0.08	+0.06	0	---	--		
	7	R.	WII	+0.66	+0.08	+0.25	0	---	5		
	8	R.	WII	+2.59	+0.38	+0.74	0	---	5		
	10	R.	WII	−2.20	−0.47	−0.11	0	---	5		
	11	R.	WII	+0.29	−0.27	−0.05	0	---	5		
	15	R.	WII	+0.94	−0.19	+0.01	0	---	--		
	25	R.	EII	+1.00	−0.47	−0.27	0	---	5		
	28	R.	EII	+1.91	−0.11	+0.14	0	---	--		
Nov.	1	R.	WII	+1.20	−0.33	−0.18	0	---	--		
	3	R.	WII	+2.21	+0.54	+0.67	0	---	--		
	10	R.	EII	+1.36	+0.32	+0.74	0	---	--		
	11	Fn.	EII	+2.87	−0.42	−0.50	0	---	4		
	15	Hd.	EII	----	−0.88	−0.75	0	---	3		
	18	R.	EII	−2.50	−0.88	−0.70	0	---	5		
	20	R.	EII	+0.04	+0.26	+0.46	I	---	--		
	22	Hd.	EII	+2.21	−0.75	−0.80	0	---	2		
	24	Fn.	WII	−0.43	+0.81	+0.76	0	---	4		
	25	Hd.	WII	+0.77	−0.22	−0.04	0	---	2½		
	28	Fn.	WII	−1.68	−0.72	−0.47	0	---	4		
	29	Hd.	WII	+2.63	+0.01	−0.19	0	---	3½		
Dec.	8	Fn.	WII	−0.71	----	----	0	---	3½		
	9	R.	WII	----	+0.10	+0.18	0	---	--	R.	
	9	R.	WII	+3.36	−0.56	−0.48	0	---	2½		
	11	R.	EII	+1.42	−0.72	−0.59	0	---	3		
	13	R.	EII	----	−0.85	−0.75	I	---	2	R.	
	13	R.	EII	+1.36	−1.41	−1.31	I	---	2½		
	16	R.	EII	----	−0.39	−0.52	0	---	--	R.	
	16	R.	EII	+0.76	−0.67	−0.80	I	---	3½		
	19	R.	EII	+1.88	−0.84	−0.79	I	---	3½		
	21	R.	EII	+0.84	−0.74	−0.71	0	---	2½		
	22	R.	WII	+1.99	−1.15	−1.33	I	---	3		
	25	R.	WII	----	−0.56	−0.28	I	---	--	R.	
	25	R.	WII	+2.96	−1.26	−0.98	II	---	2		
	28	R.	WII	----		+0.03	II	---	--	R.	
	28	R.	WII	+2.00		−0.43	II	2.6	2		
1913											
Jan.	1	Hd.	WII	----		+0.16	I	---	3	R.	
	1	Hd.	WII	+0.12		−0.64	II	2.6	3		
	3	R.	WII	----		−1.08	I	---	--	R.	
	3	R.	WII	+1.38		−0.41	II	2.1	2½		
	8	Hd.	WII	+0.38		−0.15	II	2.1	2		
	12	Fn.	WII	+0.84		−0.49	II	1.9	2½		
	13	Hd.	WII	----		−0.30	I	---	--	R.	
	13	Hd.	WII	+0.46		−0.58	II	2.6	3		
	14	R.	WII	----		+0.08	I	---	--	R.	
	14	R.	WII	+0.78		−0.33	II	2.6	1½		
	18	R.	EII	----		−0.46	II	---	1	R.	
	18	R.	EII	−1.22		−1.06	II	2.6	2		
	19	Fn.	EII	----		−0.62	I	---	3½	R.	
	19	Fn.	EII	−0.16		−0.26	I	---	3½		
	21	R.	EII	----		+0.60	I	---	2	R.	
	21	R.	EII	+0.30		−2.02	II	2.6	2		
	25	R.	EII	----		−0.82	I	---	5	R.	
	25	R.	EII	+1.94		−1.38	I	---	5		
	27	Hd.	EII	----		+0.07	I	---	2	R.	
	27	Hd.	EII	+3.35		−0.80	II	2.1	2		
	29	R.	WII	----		0.00	II	---	3	R.	
	29	R.	WII	+0.56		−0.45	II	2.6	3		
	31	R.	WII	----		+0.13	I	---	3	R.	

[1] Clamp slips.

1913				s	"	"				
Jan.	31	R.	WII	+0.88		−0.90	I	---	3	
Feb.	4	R.	WII	----		−0.63	II	---	2½	R.
	4	R.	WII	+0.99		−0.50	II	2.6	2½	
	7	R.	WII	----		−1.08	0	---	5	R.
	7	R.	WII	+0.14		+0.05	0	---	5	
	8	R.	WII	−0.93		−0.36	II	2.6	2	
	13	R.	WII	----		−0.73	II	---	3	R.
	13	R.	WII	+1.00		−0.79	II	2.6	3	
	14	R.	WII	----		−0.91	II	---	2½	R.
	14	R.	WII	+1.48		−0.51	II	2.6	2½	
Mar.	17	Fn.	WII	+1.63		−0.84	I	---	3½	
	21	Fn.	WII	−2.20		−0.11	I	---	3½	
	27	R.	EII	+0.70		−0.37	II	2.1	2	
	28	Fn.	EII	−2.61		−0.85	II	---	3	
	31	Fn.	EII	+0.61		+0.31	I	---	3	
Apr.	2	Fn.	EII	−0.80		−1.19	I	---	4	
	3	R.	EII	+1.41		−0.69	I	---	4	
	7	Fn.	WII	+0.07		−1.05	I	---	3	
	16	Hd.	WII	−0.59		−0.26	I	---	3½	
	17	R.	WII	+1.39		−0.25	II	2.6	2½	
	19	R.	WII	+0.25		−0.40	II	2.6	2	
	20	R.	WII	−0.19		−0.81	II	2.6	2	
	21	Hd.	EII	+2.48		−0.79	II	2.1	2	
	22	Fn.	EII	+0.31		−0.26	I	---	3½	
	24	Hd.	EII	−0.85		−0.31	II	2.6	2	
	25	Fn.	EII	−0.68		0.00	I	2.2	3	
	30	R.	EII	+0.67		−0.86	II	2.6	3½	
May	1	Hd.	EII	−0.41		−0.67	II	2.6	2½	
	2	Fn.	EII	−0.96		−0.85	I	---	2½	
	3	R.	EII	+0.95		−1.29	II	2.6	2	
	5	Hd.	EII	−0.05		−0.71	II	2.6	2	
	7	R.	EII	+1.43		−0.49	I	---	2½	
	8	Hd.	EII	+0.56		−0.85	II	2.6	2	
	10	R.	EII	+0.07		−0.14	II	2.6	2	
	12	Hd.	WII	+0.78		+0.37	I	---	3	
	13	Fn.	WII	+0.11		−0.56	0	---	--	
	15	Hd.	WII	+0.32		−0.89	II	2.6	2	
	19	Hd.	WII	+0.56		−0.58	II	2.6	2	
	20	Fn.	WII	+0.32		−0.42	II	2.9	3	
	24	R.	WII	+1.16		−0.68	II	2.1	2½	
	28	R.	WII	+1.99		−0.34	II	2.1	3	
	29	Hd.	WII	+2.06		−0.39	0	---	3	
	31	R.	WII	+0.57		−0.41	II	2.6	3	
June	2	Hd.	WII	−0.20		−0.72	II	2.6	2	
	4	R.	WII	+1.57		−0.63	I	---	3½	
	5	Hd.	WII	+0.20		−0.65	II	2.6	2	
	6	Fn.	WII	−1.40		−0.10	II	2.6	2	
	9	Hd.	WII	+1.48		−0.26	II	2.1	2	
	10	R.	WII	+0.63		−0.17	II	2.1	2	
	12	Hd.	EII	−1.39		−0.60	II	2.6	3	
	13	Fn.	EII	+1.42		−0.17	I	2.9	2½	
	17	*Fn.*	*EII*	*+2.03*	*−0.99*	*−0.99*	*II*	---	*3*	
	18	*R.*	*EII*	*−0.07*	*−0.29*	*−0.22*	*II*	---	*2*	
	19	*Hd.*	*EII*	*−0.01*	*−0.36*	*−0.33*	*II*	---	*2½*	
	20	*Fn.*	*EII*	*+1.33*	*−1.55*	*−1.48*	*I*	---	*3*	
	24	*Fn.*	*EII*	*+1.06*	*−1.14*	*−1.14*	*0*	---	*2½*	
	26	*Hd.*	*EII*	*+1.06*	*+0.04*	*+0.04*	*0*	---	*3*	
	30	*Hd.*	*EII*	*+1.31*	*−0.84*	*−0.79*	*I*	---	*2*	
July	*1*	*Fn.*	*EII*	*+2.66*	*−0.46*	*−0.44*	*I*	---	*3*	
	3	*R.*	*EII*	*+1.74*	*−0.01*	*−0.01*	*0*	---	*2*	
	7	*Hd.*	*WII*	*+2.98*	*−0.10*	*−0.06*	*0*	---	*3*	
	8	*Fn.*	*WII*	*+0.49*	----	----	*0*	---	*3*	
	10	*Fn.*	*WII*	*+2.09*	*−0.33*	*−0.38*	*0*	---	*3½*	
	11	*Hd.*	*WII*	*+0.52*	*+0.01*	*−0.06*	*0*	---	*3½*	
1914										
Jan.	16	R.	EI	----		−1.00	I	---	--	
	17	Wy.	WI	----		−1.54	0	---	2	R.
	17	Wy.	WI	−1.74		−0.25	I	2.9	2	
	21	Fn.	WI	----		−0.94	I	---	2½	R.
	21	Fn.	WI	−0.18		−0.80	I	---	3	
	26	Wy.	WI	----		−1.96	0	---	3½	R.
	26	Wy.	WI	−1.70		+0.05	I	---	3½	
	28	Fn.	WI	----		−1.37	I	---	3½	R.
	28	Fn.	WI	+0.96		−0.87	I	---	3½	
	31	Fn.	WI	----		−1.18	I	---	3½	R.
	31	Fn.	WI	+1.66		−0.77	I	---	3½	
Feb.	2	Hd.	WI	----		−0.95	0	---	3½	R.
	2	Hd.	WI	+1.03		−0.45	0	---	3½	

1914				s	"	"				
Feb.	3	Fn.	EI	+0.71		−0.41	I	---	4	
	7	Hd.	EI	----		−0.78	0	---	3	R.
	7	Hd.	EI	+1.47		−0.76	I	2.9	3	
	9	Hd.	EI	+0.94		−0.56	0	---	3½	
	21	Wy.	WI	----		−1.64	0	---	3	R.
	21	Wy.	WI	−0.50		−0.78	I	---	3	
Apr.	9	Fn.	WI	+0.74		−0.55	I	2.4	3	
	13	Fn.	EI	+1.14		+0.20	I	2.4	3	
	17	Wy.	EI	+4.15		−0.75	I	1.9	2½	
	21	Hd.	EI	+0.08		−0.40	II	2.6	2	
	22	Fn.	EI	−1.24		−0.03	0	---	3½	
	23	Wy.	EI	+0.17		−0.30	I	2.9	2	
	27	Wy.	EI	+1.05		−0.31	I	2.4	2½	
	28	Hd.	EI	−0.40		----	0	---	--	
	30	Wy.	WI	−0.35		−0.41	I	2.9	2½	
May	2	Fn.	WI	+0.17		−0.47	I	1.9	3½	
	5	Hd.	WI	+2.41		----	0	--	3	
	6	Fn.	WI	−0.50		−0.95	I	2.9	---	
	11	Hd.	WI	+0.90		−0.89	I	3.4	3	
	12	Wy.	WI	+0.17		----	0	---	4½	
	15	Wy.	WI	+1.07		−1.18	I	2.9	3	
	16	Fn.	WI	+2.39		−1.40	I	2.4	2½	
	18	Fn.	WI	−0.80		−0.43	I	2.4	3	
	19	Wy.	WI	+1.81		−0.49	I	3.4	2½	
	20	Hd.	WI	−1.54		−1.24	I	2.9	2½	
	21	Fn.	WI	+2.12		−1.64	I	2.4	3½	
	22	Wy.	EI	+1.99		+0.28	I	---	3	
	23	Hd.	EI	−1.25		−1.02	0	---	3	
	25	Fn.	EI	+0.74		−0.30	0	---	3½	
	26	Wy.	EI	+1.46		−1.00	I	2.9	2½	
	28	Fn.	EI	−1.25		−0.67	I	3.9	2½	
	29	Hd.	EI	+0.61		−0.17	I	3.4	2½	
June	2	Fn.	EI	−0.40		−0.37	I	2.4	2½	
	3	Wy.	EI	+3.43		−0.50	I	3.4	3½	
	5	Fn.	EI	−0.01		−0.79	I	3.4	2½	
	6	Wy.	EI	+3.19		−0.46	II	2.6	2½	
	8	Fn.	EI	+1.19		−0.84	I	2.4	2½	
	9	Wy.	EI	+2.88		−0.45	I	2.9	3	
	11	Fn.	EI	−0.67		−1.11	I	2.9	2½	
	13	Wy.	EI	+3.12		−0.60	II	2.1	3	
	16	*Hd.*	*EI*	*+0.18*	*−0.33*	*−0.38*	*II*	---	*2*	
	17	*Wy.*	*EI*	*+2.41*	*−0.54*	*−0.47*	*II*	---	*3*	
	20	*Wy.*	*WI*	*−0.58*	*−0.78*	*−0.71*	*I*	---	*3*	
	24	*Wy.*	*WI*	*−0.73*	*−1.03*	*−0.96*	*I*	---	--	
	26	*Wy.*	*WI*	*+0.89*	*−1.32*	*−1.27*	*0*	---	*3*	
	29	*Hd.*	*WI*	*+0.40*	*−0.13*	*−0.03*	*I*	---	*3*	
	30	*Wy.*	*WI*	*+0.34*	*−1.08*	*−1.03*	*0*	---	*3*	
July	*2*	*Hd.*	*WI*	*+0.76*	*+0.07*	*−0.07*	*I*	---	*2*	
	7	*Fn.*	*WI*	*+1.26*	*−0.41*	*−0.43*	*0*	---	*3*	
	8	*Hd.*	*WI*	*+1.22*	*−0.53*	*−0.55*	*0*	---	*2½*	
	14	*Fn.*	*WI*	*+0.71*	*−0.43*	*−0.48*	*0*	---	*3*	
	15	*Fn.*	*WI*	*+1.31*	*−0.40*	*−0.38*	*0*	---	*3½*	
	18	*Fn.*	*EI*	*+1.11*	*−0.18*	*−0.16*	*0*	---	*2½*	
	20	*Hd.*	*EI*	*+0.20*	*−0.38*	*−0.39*	*0*	---	*3½*	
	21	*Fn.*	*EI*	*+2.30*	*−1.14*	*−1.20*	*0*	---	*3½*	
	27	*Hd.*	*EI*	*−1.00*	*−1.21*	*−1.21*	*0*	---	*3*	
	30	*Fn.*	*EI*	*+0.64*	*−0.21*	*−0.06*	*0*	---	*3½*	
Aug.	*1*	*Fn.*	*EI*	*−0.17*	*−0.58*	*−0.56*	*0*	---	*3*	
	3	*Wy.*	*EI*	*+4.23*	*−0.12*	*−0.02*	*0*	---	*4*	
	4	*Hd.*	*EI*	*+1.58*	*−0.20*	*−0.15*	*0*	---	*3*	
	6	*Fn.*	*EI*	*+0.45*	*−0.33*	*−0.45*	*0*	---	*3½*	
	7	*Wy.*	*EI*	*+2.24*	----	----	*0*	---	--	
	13	*Fn.*	*WI*	*+2.17*	*−0.28*	*−0.19*	*0*	---	*3*	
	14	*Hd.*	*WI*	*+2.47*	*+0.11*	*+0.23*	*0*	---	*3½*	
	16	*Wy.*	*WI*	*+3.25*	*−0.29*	*−0.34*	*0*	---	*3½*	
	18	*Fn.*	*WI*	*+2.20*	*+0.12*	*+0.15*	*0*	---	*4*	
	19	*Wy.*	*WI*	*+1.82*	*−1.65*	*−1.63*	*0*	---	*3½*	
	20	*Wy.*	*WI*	*+1.66*	*−1.14*	*−1.14*	*0*	---	*3½*	
	22	*Fn.*	*WI*	*+0.19*	*−1.49*	*−1.35*	*0*	---	*3½*	
	23	*An.*	*WI*	*+1.60*	*−0.48*	*−0.36*	*0*	---	*3½*	
	30	*An.*	*WI*	*−1.44*	*−1.37*	*−1.11*	*0*	---	*3½*	
	31	*Fn.*	*WI*	*+4.48*	*−0.47*	*−0.19*	*0*	---	*3½*	
Sept.	*2*	*Fn.*	*WI*	*−0.22*	*−0.52*	*−0.40*	*0*	---	*3½*	
	5	*Wy.*	*WI*	*+1.88*	*−0.24*	*+0.09*	*0*	---	*4*	
	9	*Fn.*	*EI*	*−1.50*	*+0.20*	*+0.31*	*0*	---	*3½*	
	10	*An.*	*EI*	*+2.94*	*−1.12*	*−0.79*	*0*	---	*3½*	
	14	*Fn.*	*EI*	*−1.44*	*+0.15*	*+0.55*	*0*	---	*4*	
	15	*An.*	*EI*	*+4.02*	*+0.37*	*+0.53*	*I*	---	*3½*	

				s	"	"					
1914											
Sept.	20	Wy.	EI	+1.11	−0.05	+0.07	0	---	4		
	21	Hd.	EI	−1.49	+0.58	+0.98	0	---	3		
	22	Wy.	EI	−0.72	+0.51	+0.87	0	---	4		
	23	An.	EI	+4.01	−0.82	−0.51	0	---	4		
	26	An.	EI	+4.07	+0.11	+0.37	0	---	4		
	27	Wy.	WI	+2.13	−0.13	+0.19	0	---	3½		
	28	Hd.	WI	+1.28	−0.84	−0.46	0	---	3½		
	29	Wy.	WI	−0.62	−0.38	+0.08	0	---	4		
	30	An.	WI	−0.42	−0.82	−0.77	0	---	4		
Oct.	1	Hd.	WI	+3.98	+0.45	+0.88	0	---	4		
	2	Wy.	WI	+3.36	+0.33	+0.84	0	---	4		
	3	An.	WI	+0.93	−0.39	−0.05	0	---	4		
	12	Hd.	WI	+0.86	+1.08	+1.45	0	---	5		
	18	Hd.	EI	+1.71	----	----	0	---	4		
	19	Wy.	EI	+0.85	−0.07	+0.25	0	---	---		
	21	Hd.	EI	−0.25	----	----	0	---	3		
Nov.	6	Hd.	WI	+0.27	+0.30	+0.50	0	---	3½		
	11	Hd.	WI	−0.28	+1.03	+1.10	0	---	3		
	12	Fn.	WI	−0.16	+0.60	+0.62	0	---	4		
	20	Fn.	EI	+1.45	----	----	0	---	3½		
	25	Wy.	EI	+0.60	----	----	0	---	4½		
	27	Wy.	EI	+1.88	----	----	0	---	3½		
Dec.	11	An.	WI	−0.17	−0.68	−0.65	I	---	3		
	15	An.	WI	−1.46	−0.66	−0.59	I	---	3½		
	16	Fn.	WI	+0.48	−1.31	−1.29	0	---	2½		
	22	Fn.	WI	----	−1.07	−1.21	0	---	3½		R.
	22	Fn.	WI	−0.48	−0.92	−1.06	0	---	3½		
	25	Fn.	WI	+1.03	----	----	I	---	3½		
	27	Wy.	WI	----		−0.69	I	---	3½		R.
	27	Wy.	WI	−0.02		−0.66	I	---	4		
1915											
Jan.	4	An.	EI	+3.93		−1.35	II	3.1	3		
	7	An.	EI	----		−1.49	II	---	2½		R.
	7	An.	EI	+1.60		−0.59	II	3.1	2½		
	8	Hd.	EI	+3.41		−0.97	0	---	2		
	9	Wy.	EI	----		−0.86	I	---	3		R.
	9	Wy.	EI	+0.05		+0.19	II	2.6	3		
	10	Fn.	WI	----		−0.57	0	---	3½		R.
	10	Fn.	WI	+1.81		−0.13	0	---	3		
	13	Fn.	WI	----		−0.52	I	---	2½		R.
	13	Fn.	WI	+0.03		−1.01	I	---	2½		
	14	An.	WI	−2.17		−0.72	II	---	3½		
	15	Hd.	WI	----		−0.84	I	---	3		R.
	15	Hd.	WI	+1.39		−0.68	II	2.6	2½		
	19	Hd.	EI	−0.59		−0.47	II	2.6	3		
	20	Wy.	EI	+0.13		+0.35	II	2.1	3½		
	21	Fn.	EI	----		+0.28	I	---	3½		R.
	21	Fn.	EI	−1.24		−0.79	I	1.9	3		
	25	An.	EI	+1.33		−0.74	II	3.1	3		
	28	Wy.	EI	+1.52		+0.66	II	2.6	3		
Mar.	30	Wy.	EI	+0.98		−1.37	I	---	3		
Apr.	6	Wy.	EI	+2.34		−0.82	II	2.6	3		
	7	An.	EI	+0.82		−0.64	II	3.1	3		
	8	Hd.	EI	+0.22		−0.48	II	2.6	2		
	10	An.	EI	+0.71		−0.57	I	---	3		
	13	Fn.	WI	+1.68		−2.66	I	2.4	3		
	14	An.	WI	−2.69		−0.15	II	---	3		
	15	Hd.	WI	+0.62		−2.10	II	2.6	2		
	17	An.	WI	−1.17		−0.27	II	3.1	3½		
	19	Fn.	WI	+1.64		−0.71	I	---	3½		
	23	Wy.	WI	+2.95		−0.37	I	3.4	3		
	24	An.	WI	−1.24		----	II	3.6	3		
	26	Fn.	EI	−0.18		−0.12	I	2.4	3		
May	4	Wy.	EI	+3.24		−0.52	II	2.1	3		
	5	Hd.	EI	+0.53		−0.65	I	---	3		
	6	Fn.	EI	−0.03		−0.73	I	2.4	3		
	9	Wy.	EI	+2.01		−0.25	II	2.6	2½		
	10	Hd.	EI	+0.72		----	II	2.6	2		
	11	Fn.	EI	−1.21		−0.09	0	---	2½		
	14	Fn.	WI	+1.73		----	0	---	3		
	15	Wy.	WI	+2.32		−0.47	I	---	3		
	17	Hd.	EI	+4.84		−1.99	I	2.9	3		
	19	Fn.	EI	+0.16		−0.71	I	2.4	3		
	21	Wy.	WI	+0.70		−0.99	I	2.9	3		
	25	Fn.	WI	+0.89		−1.14	0	---	3		
	27	Wy.	WI	+0.25		−1.07	I	---	3		
	31	Wy.	WI	+1.29		----	I	2.9	2½		
June	4	An.	WI	−0.31		−0.52	II	3.1	3		
1915											
June	5	Hd.	WI	+0.04		−0.56	0	---	3		
	7	Fn.	EI	0.00		----	I	3.4	3		
	8	Hd.	EI	+0.36		−0.74	II	2.6	2		
	9	An.	EI	+0.59		+0.18	II	3.1	3		
	10	Fn.	EI	−0.71		−0.73	I	2.4	2½		
	12	An.	WI	+0.93		−0.44	II	3.6	3		
	14	Fn.	WI	+1.19		−1.18	I	2.4	3		
	17	Fn.	WI	+1.63	+0.47	+0.54	I	---	3		
	18	Hd.	WI	----	−0.36	−0.29	I	---	2½		
	19	Wy.	WI	+0.97	−0.57	−0.55	I	---	3½		
	22	Wy.	EI	+1.69	−0.20	−0.15	0	---	3½		
	23	An.	EI	+0.53	----	----	II	---	3		
	24	Fn.	EI	+0.90	−0.60	−0.75	0	---	3		
	25	Wy.	EI	+1.38	−1.01	−0.97	0	---	3½		
	27	Hd.	EI	+1.80	−0.76	−0.81	I	---	2½		
	28	Wy.	EI	+1.44	+0.60	+0.61	I	---	3		
July	5	Wy.	WI	+4.14	−0.29	−0.26	0	---	3½		
	6	Hd.	WI	−0.70	+0.36	+0.26	I	---	3		
	7	Fn.	WI	+2.19	−0.20	−0.19	0	---	3		
	8	An.	WI	−2.11	----	----	0	---	3		
	9	Hd.	WI	+1.69	−0.30	−0.45	0	---	3		
	12	An.	WI	−0.22	----	----	0	---	3		
	13	Hd.	WI	−0.10	−1.36	−1.45	0	---	3		
	14	Fn.	WI	+2.01	−0.43	−0.43	0	---	3		
	22	Hd.	EI	+0.27	−0.40	−0.29	0	---	3		
	23	An.	EI	+1.62	−0.22	−0.13	0	---	3		
	24	Fn.	EI	+1.37	−0.14	−0.01	0	---	3½		
	27	An.	EI	+2.80	−0.66	−0.57	I	---	3		
	30	An.	EI	+3.20	−0.55	−0.47	0	---	3½		
	31	Fn.	EI	+0.21	−1.79	−1.65	0	---	3½		
Aug.	4	Fn.	EI	−1.95	−0.46	−0.40	0	---	3½		
	7	An.	EI	----	−1.06	−0.96	0	---	3½		
	10	Fn.	EI	−0.12	−0.52	−0.42	0	---	3½		
	13	Fn.	EI	−0.09	−0.62	−0.50	0	---	3½		
	14	An.	EI	+3.87	−0.69	−0.48	0	---	3		
	19	Wy.	WI	+2.83	−0.11	+0.09	0	---	3½		
	21	Fn.	WI	+2.54	−0.40	−0.49	0	---	4		
	23	Hd.	WI	+2.21	−0.30	−0.10	0	---	3½		
	24	Wy.	WI	+1.14	----	----	0	---	3½		
	25	Hd.	WI	+1.75	−0.48	−0.31	0	---	3½		
	26	Wy.	WI	+1.59	+0.04	+0.37	0	---	4		
	30	Wy.	WI	+1.39	−0.86	−0.67	0	---	3½		
	31	Hd.	WI	−0.04	−0.53	−0.34	0	---	3½		
Sept.	7	Hd.	WI	+1.29	+0.07	+0.23	0	---	3		
	8	Wy.	WI	+0.62	−0.34	+0.06	0	---	3½		
	9	Hd.	WI	+0.55	+0.12	+0.41	0	---	3½		
	10	Wy.	WI	−0.03	−0.67	−0.43	0	---	3½		
	11	Wy.	EI	+2.75	−0.51	−0.24	0	---	3½		
	13	Hd.	EI	+2.01	−1.14	−0.84	0	---	3½		
	14	Wy.	EI	+1.81	−0.47	−0.29	0	---	3½		
	15	Hd.	EI	+0.64	−0.05	+0.21	0	---	3½		
	16	Wy.	EI	+1.25	+0.01	+0.21	0	---	3½		
	17	Hd.	EI	+1.54	−0.15	+0.19	0	---	3½		
	20	Hd.	EI	+1.23	+0.03	+0.17	0	---	3½		
	21	Wy.	EI	+0.29	−0.17	+0.18	0	---	3½		
	22	Hd.	EI	+0.43	−0.56	−0.31	0	---	4		
	23	Hd.	EI	+3.85	+0.62	+0.90	0	---	3½		
	24	Wy.	EI	−0.19	−0.48	−0.11	0	---	4		
	28	Fn.	EI	+0.32	+0.59	+0.97	0	---	3½		
	30	Hd.	EI	+3.10	----	----	0	---	3		
Oct.	4	Wy.	WI	+2.80	+1.35	+1.35	0	---	3½		
	8	Hd.	WI	+1.29	+0.99	+1.15	0	---	3½		
	11	Fn.	WI	+1.71	----	----	0	---	4		
	12	Wy.	WI	+1.61	+0.19	+0.57	0	---	4½		
	29	Wy.	EI	+1.34	−0.11	+0.13	0	---	4		
Nov.	1	Wy.	EI	−0.40	−1.39	−1.32	0	---	4		
	2	Hd.	EI	+1.44	+0.16	+0.45	0	---	3½		
	4	Wy.	EI	+2.17	−0.02	+0.11	0	---	4		
	5	Hd.	EI	+1.93	−0.48	−0.29	I	---	3		
	9	Fn.	WI	+3.80	−0.72	−0.57	0	---	3½		
	10	Wy.	WI	+0.25	+0.24	+0.64	0	---	3½		
	12	Fn.	WI	+1.80	+0.75	+0.85	0	---	3½		
	16	Wy.	WI	----	−1.64	−1.46	0	---	3½		R.
	16	Wy.	WI	+0.42	−0.01	+0.17	0	---	3½		
	17	Hd.	WI	----	−0.52	−0.30	0	---	3		R.
	17	Hd.	WI	+0.52	+0.58	+0.83	0	---	3		
	21	Fn.	EI	+0.35	−0.93	−0.81	0	---	4		
	23	Hd.	EI	+0.74	−0.49	−0.40	0	---	3		

				s	"	"				
1915										
Nov.	*25*	*Wy.*	*EI*	----	*−1.51*	*−1.36*	*0*	---	*3*	*R.*
	25	*Wy.*	*EI*	*−0.29*	*−0.24*	*−0.09*	*0*	---	*3*	
	29	*Fn.*	*EI*	----	*−0.49*	*−0.36*	*0*	---	*3*	*R.*
	29	*Fn.*	*EI*	*+1.39*	*−1.11*	*−0.98*	*0*	---	*3*	
	30	*Wy.*	*EI*	----	*−1.84*	*−1.78*	*0*	---	*3*	*R.*
	30	*Wy.*	*EI*	*−0.19*	*−0.41*	*−0.35*	*0*	---	*3*	
Dec.	*2*	*Fn.*	*EI*	----	*−1.03*	*−0.97*	*0*	---	*3½*	*R.*
	2	*Fn.*	*EI*	*+0.95*	*−0.38*	*−0.32*	*0*	---	*3½*	
	3	*Hd.*	*EI*	----	*−0.69*	*−0.63*	*0*	---	*2*	*R.*
	3	*Hd.*	*EI*	*+1.36*	*−0.39*	*−0.34*	*0*	---	*2*	
	6	*Wy.*	*WI*	----	*−1.54*	*−1.52*	*0*	---	*3½*	*R.*
	6	*Wy.*	*WI*	*−0.72*	*−0.91*	*−0.89*	*0*	---	*3½*	
	9	*Wy.*	*WI*	*+0.68*	*−0.64*	*−0.61*	*0*	---	*3*	
	10	*Fn.*	*WI*	*+1.20*	*−0.91*	*−0.89*	*0*	---	*3*	
	14	*Fn.*	*WI*	*+1.83*	*−1.26*	*−1.14*	*0*	---	*3*	
1916										
Jan.	3	Wy.	EI	+1.46		−0.16	I	2.9	3	
	7	Wy.	EI	+0.92		−0.29	II	2.1	3	
	8	Fn.	EI	+0.95		−0.92	I	2.4	3	
	14	Hd.	EI	+0.57		−0.95	I	---	2½	
	20	Wy.	EI	+1.49		−0.47	I	---	3	
	23	Fn.	EI	----		−0.17	I	---	3	R.
	23	Fn.	EI	+1.72		−0.72	I	2.4	3	
Feb.	9	Hd.	WI	−3.05		−0.85	I	---	3	
	15	Hd.	WI	+0.08		−1.02	II	2.6	3	
	29	Hd.	WI	+0.40		−1.11	II	2.6	3	
Mar.	3	Hd.	WI	+0.54		−1.55	II	2.6	3	
	4	Wy.	WI	−0.17		−1.99	I	2.9	4	
	10	Fn.	WI	+0.29		−0.85	I	1.9	--	
	11	Wy.	WI	−4.03		−1.74	I	2.9	3	
June	1	Fn.	EI	−1.23		−0.48	I	3.4	3	
	2	Hd.	EI	−0.01		−0.43	I	3.4	3	
	5	Hd.	EI	−0.25		−0.94	I	---	3	
	12	Wy.	EI	+1.41		−0.82	I	2.9	2½	
	13	Fn.	EI	+0.44		−0.78	I	2.4	3	
	17	*Wy.*	*WI*	*+0.15*	*−0.17*	*−0.13*	*II*	---	*3*	
	19	*Fn.*	*WI*	*+0.36*	*−0.34*	*−0.24*	*I*	---	*3½*	
	20	*Hd.*	*WI*	*−0.92*	*−1.67*	*−1.67*	*I*	---	*3*	
	22	*Fn.*	*WI*	*+1.53*	*−0.06*	*−0.02*	*I*	---	*3*	
	23	*Hd.*	*WI*	*+0.93*	*−0.82*	*−0.86*	*I*	---	*2*	
	26	*Hd.*	*WI*	*+0.54*	*−0.79*	*−0.76*	*I*	---	*2*	
	29	*Hd.*	*WI*	*+1.53*	*−0.18*	*−0.18*	*0*	---	*3*	
July	*6*	*Wy.*	*EI*	*+2.14*	*−0.61*	*−0.69*	*0*	---	*3*	
	7	*Fn.*	*EI*	*−1.15*	*−0.45*	*−0.51*	*0*	---	*2½*	
	11	*Fn.*	*EI*	*−1.13*	*−0.38*	*−0.41*	*0*	---	*3½*	
	13	*Hd.*	*EI*	*+1.92*	*−0.26*	*−0.15*	*0*	---	*3*	
	14	*Fn.*	*EI*	*+2.05*	*−0.57*	*+0.64*	*0*	---	*3½*	
	18	*Wy.*	*EI*	*+2.68*	*0.00*	*−0.07*	*0*	---	*3½*	
	20	*Hd.*	*EI*	*−0.02*	*−0.32*	*−0.23*	*0*	---	*3*	
	27	*Fn.*	*WI*	*−0.09*	*+0.25*	*+0.27*	*0*	---	*3½*	
Aug.	*1*	*Fn.*	*WI*	*−0.02*	*−0.48*	*−0.27*	*0*	---	*3½*	
	2	*Hd.*	*WI*	*+0.65*	*−0.92*	*−0.81*	*0*	---	*3*	
	3	*Hd.*	*WI*	*+2.21*	*−0.27*	*−0.20*	*0*	---	*3½*	
	4	*Fn.*	*WI*	*+2.52*	*−0.70*	*−0.58*	*0*	---	*3½*	
	7	*Wy.*	*EI*	*+4.42*	*−0.64*	*+0.80*	*0*	---	*3½*	
	8	*Fn.*	*EI*	*+0.54*	*+0.46*	*+0.66*	*0*	---	*3½*	
	14	*Fn.*	*EI*	*+1.51*	*+0.81*	*+0.98*	*0*	---	*3½*	
	17	*Fn.*	*EI*	*−1.60*	*−0.05*	*+0.09*	*0*	---	*3½*	
	21	*Wy.*	*EI*	*+1.76*	*+0.42*	*+0.59*	*0*	---	*3½*	
	22	*Fn.*	*EI*	*+0.83*	*−0.70*	*−0.46*	*0*	---	*3½*	
	24	*Wy.*	*WI*	*+0.01*	*−0.31*	*−0.04*	*0*	---	*3½*	
	25	*Fn.*	*WI*	*+1.56*	*−0.35*	*−0.16*	*0*	---	*3½*	
Sept.	*3*	*Fn.*	*WI*	*+1.91*	*+0.19*	*+0.53*	*0*	---	*4*	
	5	*Wy.*	*WI*	*+0.89*	*−0.83*	*−0.75*	*0*	---	*3½*	
	11	*Hd.*	*WI*	*+2.41*	*+0.20*	*+0.77*	*0*	---	*3½*	
	18	*Wy.*	*EI*	*+1.61*	*+0.63*	*+0.75*	*0*	---	*4*	
	19	*Hd.*	*EI*	*+1.12*	*+0.81*	*+1.15*	*0*	---	*3½*	
	20	*Wy.*	*EI*	*+1.91*	*+1.38*	*+1.49*	*0*	---	*3½*	
	22	*Hd.*	*EI*	*−1.50*	*+0.02*	*+0.27*	*0*	---	*3*	
	26	*Hd.*	*EI*	*−1.37*	*−0.30*	*+0.03*	*0*	---	*4*	
Oct.	*12*	*Hd.*	*WI*	*+0.18*	*+0.13*	*+0.48*	*0*	---	*3½*	
	22	*Wy.*	*WI*	*+3.32*	*+0.48*	*+0.89*	*0*	---	*4*	
	23	*Hd.*	*WI*	*+2.12*	*−0.44*	*+0.02*	*0*	---	*4*	
	25	*Wy.*	*EI*	*+2.11*	*+0.72*	*+1.07*	*0*	---	*4*	
	26	*Hd.*	*EI*	*+0.87*	*+0.76*	*+1.08*	*0*	---	*3½*	
Nov.	*1*	*Hd.*	*EI*	*+2.40*	*+0.66*	*+0.99*	*0*	---	*3½*	
	2	*Fn.*	*EI*	*−0.04*	*−0.03*	*+0.14*	*0*	---	*3½*	
	6	*Wy.*	*EI*	*+2.16*	*+0.28*	*+0.51*	*0*	---	*3½*	
1916										
Nov.	*8*	*Wy.*	*EI*	*+1.11*	*−0.60*	*−0.49*	*0*	---	*4*	
	9	*Fn.*	*EI*	*−1.31*	*−0.87*	*−0.72*	*0*	---	*3½*	
	15	*Wy.*	*WI*	*−1.61*	*+0.37*	*+0.56*	*0*	---	*4½*	
	16	*Hd.*	*WI*	*−0.27*	*−0.70*	*−0.54*	*0*	---	*4*	
	19	*Fn.*	*WI*	*+1.44*	*−0.08*	*−0.02*	*0*	---	*3½*	
	23	*Fn.*	*WI*	*+2.38*	*−1.04*	*−0.96*	*0*	---	*3½*	
	26	*Wy.*	*WI*	*−0.48*	*−0.71*	*−0.51*	*0*	---	*4*	
Dec.	*25*	*Fn.*	*WI*	*+1.77*	*−0.68*	*−0.74*	*I*	---	*3*	
1917										
Jan.	1	Wy.	WI	+0.18		----	I	---	3½	
	3	Wy.	WI	----		−0.07	0	---	3½	
	7	Wy.	WI	+1.88		+0.25	I	---	3½	
	8	Fn.	EI	+0.75		−0.31	I	2.4	3½	
	18	Fn.	EI	−2.21		+1.11	I	2.4	3	
Apr.	10	Fn.	WI	+2.32		−1.22	I	1.9	3½	
	13	Fn.	WI	−0.51		−0.35	I	1.9	3	
	16	Fn.	WI	+1.14		−1.00	I	1.9	2½	
	17	Wy.	WI	−1.14		−0.57	I	---	3	
	19	Fn.	EI	−0.25		----	0	---	3	
May	1	Fn.	EI	−0.66		+0.27	I	1.9	3½	
	3	Hd.	EI	−0.15		−0.21	II	3.1	2	
	10	Fn.	WI	+0.91		−0.75	I	1.9	3	
	11	Wy.	WI	−0.32		−0.70	I	3.4	3½	
	14	Wy.	WI	+1.56		−0.56	I	3.4	3	
	15	Hd.	WI	−0.48		−0.44	I	2.9	3	
	22	Fn.	WI	+0.07		−1.15	I	---	3½	
	25	Fn.	WI	+0.10		−0.39	I	1.9	3	
June	4	Wy.	WI	+1.63		−0.15	II	2.6	3	
	19	*Fn.*	*WII*	*+0.57*	*−0.13*	*−0.04*	*I*	---	*3*	
	21	*Wy.*	*WII*	*+1.87*	*+0.26*	*+0.17*	*I*	---	*3*	
	22	*Fn.*	*WII*	*+1.62*	*+0.17*	*+0.16*	*I*	---	*3*	
	25	*Wy.*	*WII*	*+0.34*	*−0.78*	*−0.79*	*I*	---	*3*	
July	*6*	*Fn.*	*EII*	*+0.84*	*+0.07*	*+0.07*	*0*	---	*2½*	
	9	*Fn.*	*EII*	*+0.86*	*−0.15*	*+0.01*	*0*	---	*3*	
	27	*Hd.*	*EII*	*+0.48*	*+0.05*	*+0.22*	*0*	---	*3*	
	30	*Wy.*	*EII*	*+2.22*	*+0.24*	*+0.32*	*0*	---	*3½*	
	31	*Fn.*	*EII*	*+1.98*	*−0.58*	*−0.43*	*0*	---	*3½*	
Aug.	*3*	*Fn.*	*WII*	*+1.53*	*−0.21*	*−0.20*	*0*	---	*3½*	
	6	*Hd.*	*WII*	*+2.45*	*−0.89*	*−0.91*	*0*	---	*3*	
	13	*Fn.*	*WII*	*+2.60*	*−0.76*	*−0.78*	*0*	---	*3*	
	17	*Wy.*	*WII*	*+0.81*	*−0.52*	*−0.40*	*0*	---	*3*	
	21	*Wy.*	*WII*	*+2.09*	*−0.21*	*−0.29*	*0*	---	*4*	
	25	*Wy.*	*EII*	*+0.79*	*+0.08*	*+0.36*	*0*	---	*3½*	
Sept.	*4*	*Fn.*	*EII*	*+0.98*	*+0.29*	*+0.53*	*0*	---	*3½*	
	11	*Fn.*	*EII*	*+0.28*	*+1.12*	*+0.80*	*0*	---	*3½*	
	17	*Hd.*	*EII*	----	*−0.10*	*+0.19*	*0*	---	-	
	18	*Wy.*	*EII*	*+1.54*	----	----	*0*	---	*4*	
	20	*Hd.*	*WII*	*+1.75*	*+1.12*	*+0.83*	*0*	---	*3½*	
	27	*Fn.*	*WII*	----	*+0.19*	*+0.33*	*0*	---	*3½*	
Oct.	*2*	*Fn.*	*WII*	*+1.21*	*+1.15*	*+1.46*	*0*	---	*3½*	
	15	*Fn.*	*EII*	*+2.22*	*+0.48*	*+0.77*	*0*	---	*3½*	
	21	*Hd.*	*EII*	*−0.58*	*+0.89*	*+1.10*	*0*	---	*3½*	
	22	*Wy.*	*EII*	*+4.57*	----	----	*0*	---	*4*	
	24	*Hd.*	*EII*	*+1.11*	*+0.71*	*+1.05*	*0*	---	*4*	
	25	*Fn.*	*EII*	*+1.81*	*−0.20*	*+0.04*	*0*	---	*3½*	
	31	*Hd.*	*EII*	*+1.38*	*+0.73*	*+1.05*	*0*	---	*4*	
Nov.	*1*	*Fn.*	*EII*	*+0.69*	*+0.03*	*+0.24*	*0*	---	*4*	
	11	*Wy.*	*WII*	*+0.65*	*+0.65*	*+0.70*	*0*	---	*3½*	
	16	*Fn.*	*WII*	*+1.72*	*−0.26*	*−0.26*	*0*	---	*3*	
	19	*Fn.*	*WII*	*+1.02*	*−0.39*	*−0.25*	*0*	---	*3½*	
	25	*Hd.*	*WII*	----	*−0.84*	*−0.69*	*0*	---	*3½*	
	26	*Wy.*	*WII*	----	*+0.19*	*+0.44*	*0*	---	*3½*	
Dec.	*9*	*Fn.*	*WII*	*−0.26*	*−0.15*	*+0.34*	*0*	---	*3*	
	20	*Wy.*	*EII*	*+2.44*	*−0.12*	*−0.06*	*0*	---	*3*	
	23	*Fn.*	*EII*	*+1.16*	----	----	*0*	---	*3*	
	26	*Fn.*	*EII*	*+2.68*	*−0.86*	*−0.80*	*0*	---	*3*	
1918										
Jan.	9	Fn.	EII	+2.38		−2.22	0	---	3½	
Apr.	15	Fn.	EII	+0.61		−0.89	I	1.9	2½	
May	2	Fn.	EII	+0.46		−0.36	I	2.4	2½	
	8	Fn.	EII	+1.45		+0.29	I	2.4	3	
	12	Fn.	EII	----		−1.82	0	---	3	
	15	Fn.	WII	+1.89		−0.97	0	---	3	
	27	Fn.	WII	----		−0.27	I	2.9	3	
June	*19*	*Wy.*	*WII*	*−0.45*	*+0.68*	*+0.64*	*I*	---	*2*	
	24	*Wy.*	*WII*	*+1.57*	*+0.60*	*+0.59*	*I*	---	*2½*	
	27	*Wy.*	*WII*	*−0.01*	*+1.00*	*+1.02*	*I*	---	*3*	
	28	*Hd.*	*WII*	*+1.99*	*−0.47*	*−0.46*	*I*	---	*2*	

				s	″	″			
1918									
July	1	*Wy.*	*WII*	*−0.28*	*+1.02*	*+1.08*	*0*	---	*3*
	2	*Hd.*	*WII*	*+0.56*	*−0.19*	*−0.33*	*I*	---	*2*
	9	*Hd.*	*EII*	*+0.18*	----	----	*0*	---	*2½*
	15	*Wy.*	*EII*	*+1.99*	*−0.32*	*−0.46*	*0*	---	*3½*
	16	*Hd.*	*EII*	*−1.65*	*−0.31*	*−0.27*	*0*	---	*3*
	20	*Wy.*	*EII*	*+0.62*	*−0.33*	*−0.37*	*0*	---	*4*
	22	*Wy.*	*EII*	*+1.66*	*+0.70*	*+0.83*	*0*	---	*3½*
	23	*Fn.*	*EII*	*−0.84*	*−0.07*	*0.00*	*0*	---	*2½*
	25	*Fn.*	*EII*	*−0.18*	*0.00*	*−0.02*	*0*	---	*3½*
Aug.	5	*Wy.*	*WII*	*+0.77*	*−0.43*	*−0.36*	*0*	---	*3½*
	8	*Wy.*	*WII*	*+1.69*	*−0.07*	*−0.06*	*0*	---	*4*
	14	*Wy.*	*WII*	*+0.65*	*+0.55*	*+0.71*	*0*	---	*4*
	15	*Fn.*	*WII*	*+2.85*	*−0.15*	*+0.22*	*0*	---	*3½*
Mean		1914.24		+0.68		−0.61			
		1914.23							
Corr				−0.08		+0.42			

Weisse$_2$ I 1515

				h	m	s	°	′	″			
1912												
Sept.	14	R.	WII	1	26	59.500	+34	20	12.24	0	7.5	1
	30	R.	EII			59.453			11.98	0	---	2½
Oct.	1	R.	EII			59.425			12.71	0	6.0	2
	7	R.	WII			59.486			12.87	0	6.5	1½
1913												
Nov.	5	Hd.	EI			59.427			12.05	0	6.5	2
	6	Fn.	EI			59.441			11.57	0	6.5	1½
	10	Fn.	WI			59.505			13.14	0	7.0	3
	17	Fn.	WI			59.490			12.85	0	6.5	2
Mean		1913.30		1	26	59.466	+34	20	12.43			
Corr						−0.081			−0.26			

Oeltzen 1649

				h	m	s	°	′	″			
1912												
Oct.	2	R.	EII	1	27	44.359	+54	28	57.04	0	7.0	1
	5	R.	EII			44.331			57.13	0	7.0	2½
	8	R.	WII			44.331			57.09	0	7.5	1½
	9	R.	WII			44.334			57.01	0	7.0	2
1913												
Nov.	22	Hd.	WI			44.346			57.43	0	7.0	2
	24	Fn.	WI			44.420			57.09	0	7.0	2½
Dec.	4	Fn.	EI			44.273			57.08	0	7.5	3
	5	Fn.	EI			44.240			57.06	0	7.0	3
Mean		1913.34		1	27	44.329	+54	28	57.12			
Corr						−0.081			−0.30			

B. D.−7° 256

				h	m	s	°	′	″			
1911												
Nov.	21	Fn.	EII	1	29	11.153	−7	29	6.23	0	6.3	3
	22	Hd.	EII			11.166			6.10	0	6.0	1
	25	Hd.	WII			11.185			6.57	0	6.0	3
	30	R.	WII			11.167			6.64	0	6.0	4
1914												
Nov.	6	Wy.	WI			11.197			7.21	0	6.0	2½
	9	Hd.	WI			11.214			7.34	0	6.0	2
	19	Hd.	EI			11.195			6.83	0	6.0	3
Dec.	30	An.	EI			11.210			7.09	0	---	3½
	31	Fn.	EI			11.162			7.18	0	---	2½
1915												
Jan.	7	Hd.	EI			11.177			6.79	0	6.0	3
Mean		1913.72		1	29	11.183	−7	29	6.80			
Corr						−0.081			−0.15			

Bradley 207

				h	m	s	°	′	″			
1911												
Oct.	12	R.	WII	1	30	56.702	+48	15	48.88	0	6.0	1
	13	Hd.	WII			56.705			49.32	0	6.0	2
Nov.	2	Fn.	EII			56.766			49.22	0	6.6	2
	3	Hd.	EII			56.722			48.26	0	5.8	2
1914												
Oct.	30	Hd.	EI			56.700			48.16	0	6.0	3
1914												
Oct.	31	An.	EI			56.679			48.13	0	7.0	3
Nov.	2	Fn.	WI			56.763			49.15	0	6.0	2
	3	An.	WI			56.691			48.24	0	---	--
Mean		1913.32		1	30	56.716	+48	15	48.67			
Corr						−0.081			−0.29			

Bradley 211

				h	m	s	°	′	″			
1912												
Oct.	15	R.	WII	1	30	57.584	+14	12	5.63	0	6.0	1½
	16	Fn.	WII			57.547			5.30	0	6.5	2
	29	R.	EII			57.619			5.48	0	---	5
	30	Fn.	EII			57.574			5.39	0	6.6	3
Nov.	11	R.	EII			57.621			5.79	0	---	5
1913												
Nov.	20	Fn.	WI			57.575			5.41	0	6.5	3
	21	R.	WI			57.580			4.84	0	6.0	2
Dec.	9	R.	EI			57.577			4.68	0	6.0	2
	11	Fn.	EI			57.596			5.28	0	6.5	2½
Mean		1913.31		1	30	57.586	+14	12	5.31			
Corr						−0.081			−0.22			

40 Cassiopeiæ

				h	m	s	°	′	″			
				1	31	18.191	+72	34	54.43			
1912												
Nov.	2	R.	WII			−0.18			−0.62	I–0	---	2
	6	R.	WII			−0.18			−0.71	0	6.0	3
	19	R.	EII			−0.01			+0.82	0	---	5
	20	Fn.	EII			−0.05			0.00	0	5.4	3
1913												
Dec.	13	Hd.	EI			−0.12			−0.06	0	6.0	3
	16	R.	WI			−0.13			−0.06	0	---	2
	19	R.	WI			−0.11			−0.44	I	4.9	1½
1914												
Jan.	5	R.	EI			−0.08			−0.33	0	5.5	2
Mean		1913.42				−0.108			−0.18			
Corr						−0.081			−0.35			

40 Cassiopeiæ s. p.

				h	m	s	°	′	″			
				1	31	18.191	+72	34	54.43			
1913												
Apr.	17	R.	WII			−0.13			−0.73	0	6.0	2½
	19	R.	WII			+0.04			−2.11	0	6.0	2
May	1	Hd.	EII			−0.15			−1.22	0	6.5	3
	2	Fn.	EII			−0.04			−0.87	0	---	4
1914												
Mar.	24	Fn.	EI			+0.02			−0.91	0	6.5	3½
	26	Hd.	EI			−0.19			−0.07	0	6.0	4
Apr.	10	Wy.	WI			−0.24			−0.26	0	5.7	3½
May	2	Fn.	WI			−0.23			−1.92	0	---	4
Mean		1913.79				−0.115			−1.01			
Corr						−0.081			+0.56			

υ Andromedæ

				h	m	s	°	′	″			
				1	31	30.513	+40	57	19.01			
1911												
Oct.	16	Fn.	WII			+0.045			+0.49	0	---	2
	18	Fn.	WII			−0.007			+0.16	I	3.7	2½
Nov.	16	R.	EII			+0.057			+0.38	I	4.4	1
	18	R.	EII			+0.065			−0.99	I	4.4	2
1914												
Nov.	10	Fn.	WI			+0.002			----	I	3.9	2
	13	Fn.	WI			−0.034			−0.08	0	5.0	3½
	17	Wy.	EI			+0.071			−0.38	I	3.4	2
	18	Fn.	EI			+0.014			+0.68	0	---	1½
Dec.	17	Fn.	WI			+0.005			+0.23	I	3.9	2
	18	Hd.	WI			+0.006			----	I	---	2

			s	″		
1915						
Dec. 9	Hd.	WI	−0.043	----	0	--- 3
21	Fn.	WI	+0.034	----	I	4.4 2
1916						
Dec. 12	Fn.	EI	+0.050	----	0	4.5 3
14	Fn.	EI	+0.022	----	0	--- 2
Mean------	1914.47		+0.020	+0.06		
	1913.37					
Corr----------			−0.081	−0.27		

Bradley 213

			h m s	° ′ ″		
1911						
Oct. 23	R.	WII	1 31 35.587	−15 51 36.33	0	--- 3½
25	Hd.	WII	35.611	36.79	0	5.6 2
Nov. 10	Hd.	EII	35.616	37.71	0	5.2 3
13	Fn.	EII	35.672	37.23	0	5.7 2
1914						
Dec. 22	Wy.	WI	35.726	36.70	0	--- 4
23	Hd.	WI	35.708	37.39	0	6.5 3
1915						
Jan. 4	Hd.	EI	35.627	37.59	0	6.0 3
5	Wy.	EI	35.631	37.72	0	6.0 3
Mean------	1913.42		1 31 35.647	−15 51 37.18		
Corr----------			−0.081	−0.11		

π Piscium

			h m s	° ′ ″		
			1 32 19.500	+11 40 53.17		
1912						
Sept. 14	R.	WII	+0.075	+0.96	D	6.5 1
19	R.	WII	+0.066	+0.41	0	5.5 3½
30	R.	EII	+0.049	+0.70	0	5.5 2½
Oct. 1	R.	EII	+0.025	+0.65	0	5.5 3½
1913						
Nov. 22	Hd.	WI	+0.039	+0.27	0	6.0 2
24	Fn.	WI	+0.063	+1.11	0	6.0 2½
Dec. 3	Hd.	EI	+0.069	+0.82	0	--- 3
5	Fn.	EI	+0.067	+0.51	0	5.5 3½
Mean------	1913.32		+0.057	+0.68		
Corr----------			−0.081	−0.21		

υ Persei

			h m s	° ′ ″		
			1 32 27.709	+48 10 20.70		
1912						
Nov. 9	Fn.	WII	−0.020	+0.89	I	3.0 2
12	R.	EII	+0.024	+0.24	I	4.4 2½
16	Hd.	EII	+0.055	+0.54	I	3.4 --
26	Hd.	WII	−0.022	+0.37	I	3.4 3
1913						
Nov. 5	Hd.	EI	+0.021	+0.69	I	3.4 2
6	Fn.	EI	−0.017	+0.31	I	3.4 2
17	Fn.	WI	+0.046	+0.68	I	3.6 1½
19	Hd.	WI	−0.006	+0.74	0	--- 3
Mean------	1913.37		+0.010	+0.56		
Corr----------			−0.081	−0.29		

Bradley 205

			h m s	° ′ ″		
1911						
Dec. 4	Hd.	WII	1 32 29.60	+77 30 43.98	0	6.5 2
5	Hd.	WII	29.44	43.91	0	6.5 2
19	Hd.	EII	29.25	43.85	0	6.3 2
20	Hd.	EII	29.50	43.41	0	7.5 3
1914						
Oct. 23	Fn.	EI	29.55	43.05	0	6.5 2½
28	An.	EI	29.38	44.26	0	7.0 3
Nov. 4	Hd.	WI	29.53	43.62	0	7.0 3
5	Fn.	WI	29.34	43.78	0	6.0 2
Mean------	1913.39		1 32 29.449	+77 30 43.73		
Corr----------			−0.081	−0.36		

Bradley 205 s. p.

			h m s	° ′ ″		
1913						
Mar. 22	R.	WII	1 32 29.56	+77 30 41.85	0	7.0 2
Apr. 1	Hd.	EII	29.42	42.70	0	7.0 3½
6	R.	WII	29.39	43.45	0	--- --
21	Hd.	EII	29.55	42.42	0	7.0 3
1914						
Feb. 26	Hd.	EI	29.56	41.93	0	--- 3½
27	Fn.	EI	29.50	42.80	0	7.0 3
Mar. 3	Fn.	WI	29.30	42.96	0	7.5 3½
12	Hd.	WI	29.26	43.01	0	7.5 3½
Mean------	1913.71		1 32 29.442	+77 30 42.64		
Corr----------			−0.081	+0.50		

Lalande 3002

			h m s	° ′ ″		
1911						
Nov. 22	Hd.	EII	1 33 41.460	+20 56 26.56	0	6.0 1
25	Hd.	WII	41.492	26.65	0	6.5 3
Dec. 1	R.	WII	41.461	26.07	0	--- 2½
25	R.	EII	41.485	26.24	D	6.5 3
1914						
Oct. 21	An.	EI	41.443	25.94	0	7.0 2½
22	Hd.	EI	41.471	25.59	0	6.0 3
Nov. 6	Wy.	WI	41.482	26.47	0	6.5 2
9	Hd.	WI	41.484	26.21	0	6.5 2
Mean------	1913.38		1 33 41.472	+20 56 26.22		
Corr----------			−0.081	−0.23		

τ Andromedæ

			h m s	° ′ ″		
1912						
Oct. 2	R.	EII	1 35 15.754	+40 7 17.70	I	4.4 1½
4	R.	EII	15.755	17.79	I	4.4 1
8	R.	WII	15.764	17.45	0	--- 2
9	R.	WII	15.791	17.41	0	5.5 2
1913						
Nov. 3	Fn.	EI	15.751	17.04	0	5.3 3
4	R.	EI	15.722	17.81	I	3.9 2
10	Fn.	WI	15.761	18.16	0	5.0 3
20	Fn.	WI	15.766	17.51	0	5.5 3
Mean------	1913.31		1 35 15.758	+40 7 17.61		
Corr----------			−0.081	−0.27		

ω Cassiopeiæ

			h m s	° ′ ″		
			1 35 39.644	+67 35 17.60		
1911						
Oct. 23	R.	WII	+0.13	+1.12	0	6.5 2½
24	Fn.	WII	+0.01	+0.47	0	5.3 2
Nov. 19	Fn.	EII	−0.03	−0.28	0	5.5 2
21	Fn.	EII	+0.05	−0.37	D	5.8 2½
1914						
Oct. 30	Hd.	EI	+0.04	−0.01	D	6.0 3
Nov. 7	Hd.	WI	+0.06	−0.07	0	6.5 3½
10	Fn.	WI	+0.02	−0.02	0	--- 2½
11	An.	WI	−0.02	+0.14	0	6.0 3
17	Wy.	EI	0.00	+0.11	I	4.9 2½
Mean------	1913.52		+0.029	+0.12		
Corr----------			−0.081	−0.34		

ω Cassiopeiæ s. p.

			h m s	° ′ ″		
			1 35 39.639	+67 35 17.60		
1912						
Apr. 20	Fn.	WII	−0.09	+0.47	D	--- 4
May 4	R.	WII	−0.07	----	D	--- 5
25	R.	EII	+0.01	−0.62	0	--- 3
26	Hd.	EII	−0.08	−0.70	0	6.5 3½
1915						
June 4	An.	WI	----	+0.12	0	7.5 3½
8	Hd.	EI	−0.02	−1.74	0	7.0 3½

				s		″			
1915									
June	9	An.	EI	----		−0.64	0	7.5	3½
	12	An.	WI	----		+0.30	0	---	3½
Mean		1912.98		−0.050		−0.40			
		1914.12							
Corr				−0.081		+0.67			

ν Piscium

	h	m	s	°	′	″
	1	36	44.775	+5	1	56.98

1912									
Oct.	5	R.	EII	+0.033		+0.58	I	4.4	3
	15	R.	WII	+0.054		+0.29	I	4.9	2½
	16	Fn.	WII	+0.018		+0.08	0	4.9	2
	27	R.	EII	+0.044		−0.04	I	4.4	3
1913									
Dec.	13	Hd.	EI	+0.038		−0.10	I	3.9	2
	16	R.	WI	+0.016		−0.27	0	---	3
	19	R.	WI	+0.022		−0.40	I	4.4	2
1914									
Jan.	5	R.	EI	+0.033		−1.06	I	4.4	2½
Mean		1913.38		+0.032		−0.12			
Corr				−0.081		−0.19			

Groombridge 371

	h	m	s	°	′	″
	1	37	47.579	+44	52	7.98

1912									
Sept.	14	R.	WII				0	7.0	1
	19	R.	WII	47.551		8.21	0	6.0	3
	30	R.	EII	47.462		8.04	0	6.0	2
Oct.	1	R.	EII	47.477		7.80	0	6.0	2
1913									
Nov.	5	Hd.	EI	47.560		8.20	0	6.5	3
	6	Fn.	EI	47.508		7.88	0	6.5	2½
	17	Fn.	WI	47.526		8.72	0	6.5	2
	21	R.	WI	47.549		8.40	0	6.0	2
Mean		1913.30		47.526	+44 52	8.15			
Corr				−0.081		−0.28			

φ Persei

	h	m	s	°	′	″
	1	38	0.768	+50	14	8.53

1911									
Oct.	12	R.	WII	−0.020		+0.79	I	4.4	1
	13	Hd.	WII	−0.008		−0.28	I	3.9	2
Nov.	3	Hd.	EII	−0.033		−0.21	I	3.9	1½
	10	Hd.	EII	−0.024		+0.03	I	3.9	3
1914									
Nov.	13	Fn.	WI	−0.029		+0.42	0	---	3½
	18	Fn.	EI	+0.011		+0.03	0	5.0	1½
	19	Hd.	EI	+0.043		−0.17	I	3.9	2½
Dec.	17	Fn.	WI	−0.038		+0.75	I	3.9	2
Mean		1913.36		−0.012		+0.17			
Corr				−0.081		−0.29			

π Sculptoris

	h	m	s	°	′	″
	1	38	4.981	−32	46	50.50

1911									
Oct.	16	Fn.	WII				0	---	2
	18	Fn.	WII	4.869		49.74	0	5.4	4
Nov.	16	R.	EII	4.949		49.78	0	5.5	3
	18	R.	EII	5.000		51.22	0	5.5	4½
1914									
Nov.	21	Fn.	EI	4.956		51.24	0	5.5	3½
	23	Fn.	EI	4.985		50.10	0	6.0	3½
Dec.	18	Hd.	WI	4.961		-----	0	---	3
	22	Wy.	WI	4.973		50.37	0	---	5
	23	Hd.	WI	5.006		50.42	0	---	3½
1915									
Jan.	10	Wy.	WI	4.949		49.40	0	6.5	3½
Mean		1913.71		4.963	−32 46	50.31			
		1913.57							
Corr				−0.081		+0.08			

Pulkowa 1855.245

	h	m	s	°	′	″
	1	38	10.519	−4	8	34.58

1912									
Oct.	28	Fn.	EII				0	---	3
	29	R.	EII	10.460		35.52	0	---	5
Nov.	1	Fn.	WII	10.498		36.50	0	6.0	3½
	2	R.	WII	10.464		35.82	0	6.0	2
1913									
Nov.	22	Hd.	WI	10.494		35.88	I	4.9	2
	24	Fn.	WI	10.459		35.96	0	5.5	3
Dec.	3	Hd.	EI	10.502		35.42	0	---	3
	4	Fn.	EI	10.484		35.22	0	---	3½
Mean		1913.37		1 38 10.485	−4	8 35.61			
Corr				−0.081		−0.16			

τ Ceti

	h	m	s	°	′	″
	1	39	52.727	−16	24	36.70

1911									
Dec.	1	R.	WII				0	---	2½
	2	R.	WII	+0.112		−1.00	I	3.4	3½
	19	Hd.	EII	+0.005		−0.16	I	2.9	2
1912									
Jan.	4	Fn.	EII	+0.034		−0.87	0	4.0	2½
1915									
Sept.	22	Wy.	EI	+0.081		−0.14	I	3.9	3
	24	Hd.	EI	+0.084		−0.30	I	3.4	3
Oct.	9	Hd.	WI	+0.151		−1.09	I	3.4	3
	11	Hd.	WI	+0.115		−0.84	I	3.4	3
Mean		1913.85		+0.086		−0.57			
Corr				−0.081		−0.11			

o Piscium

	h	m	s	°	′	″
	1	40	38.383	+8	42	18.36

1912									
Nov.	6	R.	WII				0	---	3
	9	Fn.	WII	+0.005		+0.34	I	4.1	2
	12	R.	EII	+0.021		−0.29	0	---	3½
	16	Hd.	EII	+0.021		+0.73	I	4.4	2
1913									
Dec.	27	Wy.	WI	+0.036		+1.09	I	---	2
	30	Wy.	WI	+0.034		+0.60	0	4.5	2½
1914									
Jan.	7	Hd.	EI	+0.024		−0.01	I	3.9	3
	8	R.	EI	+0.045		−0.36	0	---	3
	26	R.	WI	+0.074		+0.32	0	---	--
Oct.	21	An.	EI	+0.039		+0.87	I	3.9	2½
	23	Fn.	EI	+0.034		+0.58	0	---	--
Nov.	3	An.	WI	+0.055		+0.96	I	5.4	3
	4	Hd.	WI	+0.012		−0.02	I	4.4	3
Mean		1913.91		+0.034		+0.37			
Corr				−0.081		−0.21			

Piazzi I 159

	h	m	s	°	′	″
	1	41	13.87	+63	24	31.74

1912									
Nov.	21	R.	EII				0	5.5	2½
	25	Fn.	WII	13.75		30.21	0	5.9	2½
	26	Hd.	WII	13.72		31.03	0	6.0	2
Dec.	12	R.	EII	13.80		30.59	0	5.5	2
1914									
Jan.	10	Hd.	EI	13.85		30.42	0	6.0	3
	12	R.	EI	13.87		30.04	0	6.0	2½
	14	Hd.	EI	13.91		30.19	0	6.5	2
	22	Hd.	WI	13.93		30.37	0	6.0	2
	25	Fn.	WI	13.94		30.47	0	6.0	2
Mean		1913.54		1 41 13.849	+63 24	30.56			
Corr				−0.081		−0.33			

ϵ Sculptoris [1]

			h m s	° ′ ″			
			1 41 25.676	−25 30 7.40			
1911							
Oct. 24	Fn.	WII	+0.244	+1.65	0	5.4	3½
25	Hd.	WII	+0.262	−0.29	0	5.8	..
Nov. 19	Fn.	EII	+0.216	−0.50	0	6.2	3½
21	Fn.	EII	+0.234	−0.82	0	6.0	3
1914							
Oct. 28	An.	EI	+0.323	−0.59	0	5.5	4
30	Hd.	EI	+0.289	−0.62	0	6.0	3½
31	An.	EI	+0.293	−0.44	0	6.5	3
Nov. 6	Wy.	WI	+0.337	−0.80	0	6.0	3
9	Hd.	WI	+0.360	−0.45	0	6.0	3½
Mean	1913.51		+0.284	−0.32			
Corr			−0.081	−0.03			

Lacaille 513

			h m s	° ′ ″			
1912							
Nov. 29	Fn.	WII	1 41 51.353	−27 47 55.47	0	..	4
30	Hd.	WII	51.353	54.72	0	6.5	2
Dec. 13	Hd.	EII	51.363	54.19	0	..	3½
14	R.	EII	51.282	54.24	0	6.5	3½
1913							
Dec. 13	Hd.	EI	51.390	54.43	0	6.5	3
18	Fn.	WI	51.355	56.03	0	6.5	3½
19	R.	WI	51.383	53.69	0	6.0	2
22	Fn.	WI	51.396	55.79	0	..	3½
1914							
Jan. 5	R.	EI	51.397	54.06	0	6.5	3
Mean	1913.51		1 41 51.364	−27 47 54.74			
Corr			−0.081	0.00			

Weisse$_1$ I 719

			h m s	° ′ ″			
1911							
Nov. 22	Hd.	EII	1 42 34.906	−14 20 19.19	0	7.0	1
25	Hd.	WII	34.935	19.88	0	6.0	3
30	R.	WII	34.972	20.25	0	6.5	3
Dec. 27	R.	EII	34.937	19.03	0	6.5	3
1914							
Nov. 10	Fn.	WI	35.005	19.37	0	..	3½
11	An.	WI	35.012	19.89	0	7.5	3½
17	Wy.	EI	35.002	19.68	0	7.0	3
19	Hd.	EI	34.935	19.65	0	6.5	3
Dec. 21	Fn.	WI	34.986	19.30	0	7.5	3½
30	An.	EI	34.917	19.17	0	7.5	4
Mean	1913.71		1 42 34.961	−14 20 19.54			
Corr			−0.081	−0.12			

Bradley 235

			h m s	° ′ ″			
1912							
Oct. 4	R.	EII	1 43 17.932	+16 30 27.50	0	6.0	1
5	R.	EII	17.956	27.95	0	5.5	2½
9	R.	WII	17.957	27.09	0	6.5	3½
15	R.	WII	17.946	28.23	0	6.0	1½
1913							
Nov. 4	R.	EI	17.921	26.67	0	5.5	3
5	Hd.	EI	17.952	27.86	0	6.0	3
10	Fn.	WI	17.924	27.98	0	6.5	3
17	Fn.	WI	17.926	27.71	0	6.0	1½
Mean	1913.31		1 43 17.939	+16 30 27.62			
Corr			−0.081	−0.22			

Lalande 3301

			h m s	° ′ ″			
1911							
Oct. 18	Fn.	WII	1 43 22.699	−21 17 35.87	0	..	3½
23	R.	WII	22.716	36.47	0	7.0	3½
Nov. 2	Fn.	EII	22.655	35.05	0	6.6	3
3	Hd.	EII	22.648	35.49	0	6.5	2
1915							
Sept. 28	Hd.	EI	22.757	35.35	0	6.5	3½
Oct. 12	Fn.	WI	22.650	36.78	0	6.0	3½
21	Fn.	WI	22.665	35.99	0	..	3½
28	Wy.	EI	22.686	35.86	0	7.0	3
Mean	1913.80		1 43 22.684	−21 17 35.86			
Corr			−0.081	−0.07			

Groombridge 379

			h m s	° ′ ″			
1911							
Dec. 4	Hd.	WII	1 43 41.15	+75 8 37.96	0	6.8	3
5	Hd.	WII	41.11	37.98	0	6.5	2
1912							
Jan. 4	Fn.	EII	41.18	38.00	0	7.5	2½
9	R.	EII	41.28	38.66	0	..	5
1914							
Dec. 23	Hd.	WI	41.24	38.62	0	..	2
1915							
Jan. 4	Hd.	EI	41.43	38.08	0	7.0	2
5	Wy.	EI	41.36	38.32	0	7.5	2½
10	Wy.	WI	41.15	38.32	0	7.0	2
Mean	1913.49		1 43 41.238	+75 8 38.24			
Corr			−0.081	−0.35			

Groombridge 379 s. p.

			h m s	° ′ ″			
1913							
Apr. 20	R.	WII	1 43 41.14	+75 8	0	7.5	2
21	Hd.	EII	41.34	37.24	0	7.2	3½
May 1	Hd.	EII	41.19	36.27	0	7.5	3
15	Hd.	WII	41.21	36.84	0	7.0	3
19	Hd.	WII	41.21	37.49	0	7.5	3
1914							
Apr. 21	Hd.	EI	41.18	36.99	0	7.5	3½
27	Wy.	EI	41.04	36.57	0	7.5	2½
May 11	Hd.	WI	41.24	37.58	0	..	3
16	Fn.	WI	41.31	37.34	0	7.5	3
18	Fn.	WI	41.10	37.48	0	7.0	3½
Mean	1913.84		1 43 41.196	+75 8 37.09			
	1913.90						
Corr			−0.081	+0.53			

Weisse$_2$ I 956

			h m s	° ′ ″			
1912							
Nov. 2	R.	WII	1 44 23.941	+26 1 31.83	0	7.0	1½
9	Fn.	WII	23.921	31.75	0	6.8	2
18	Fn.	EII	23.975	32.44	0	..	1½
19	R.	EII	23.964	32.19	0	..	5
20	Fn.	EII	23.977	31.53	0	6.9	3½
1913							
Nov. 6	Fn.	EI	23.929	30.23	0	7.0	2½
20	Fn.	WI	23.969	31.62	0	7.0	3
21	R.	WI	23.974	31.23	0	6.0	1½
Dec. 5	Fn.	EI	23.922	31.58	0	7.0	3
Mean	1913.32		1 44 23.952	+26 1 31.60			
Corr			−0.081	−0.24			

Radcliffe 1845. 526

			h m s	° ′ ″			
1911							
Oct. 12	R.	WII	1 45 41.28	+80 28 0.97	0	7.5	2
13	Hd.	WII	41.01	0.69	0	7.0	2
Nov. 7	R.	EII	41.32	0.89	0	6.5	2
10	Hd.	EII	41.07	0.72	0	7.0	3½
1914							
Nov. 19	Hd.	EI	41.51	1.08	0	7.0	3
21	Fn.	EI	41.30	1.24	0	7.0	2½
Dec. 17	Fn.	WI	41.37	0.78	0	7.0	2½
22	Wy.	WI	41.51	1.19	0	6.8	3
Mean	1913.37		1 45 41.296	+80 28 0.95			
Corr			−0.081	−0.37			

[1] Double; s. pr. component observed.

Radcliffe 1845, 526 s. p.

			h m s	° ′ ″			
1912			1 45 41.31	+80 27 60.31	0	7.6	4
May 20	Fn.	EII					
21	Hd.	WII	41.28	59.84	0	7.5	3½
24	Hd.	EII	41.12	59.68	0	8.0	3½
28	Hd.	WII	41.34	59.94	0	7.0	3
1915							
May 31	Wy.	WI	41.39	59.93	0	---	3½
June 4	An.	WI	-----	59.65	0	8.0	3
8	Hd.	EI	41.24	59.04	0	7.5	2½
9	An.	EI	-----	58.83	0	8.0	3½
12	An.	WI	-----	59.83	0	8.0	3
Mean		1913.40	1 45 41.280	+80 27 59.67			
		1914.08					
Corr			−0.081	+0.48			

ζ Ceti

			h m s	° ′ ″			
			1 47 1.071	−10 46 45.59			
1911							
Oct. 25	Hd.	WII	+0.056	−0.19	I	4.4	2
Nov. 16	R.	EII	+0.062	−0.34	I	3.9	2½
18	R.	EII	+0.021	−1.34	I	3.9	2
Dec. 2	R.	WII	+0.046	−0.30	I	3.9	3
1915							
Sept. 22	Wy.	EI	+0.036	−0.23	I	3.9	3
24	Hd.	EI	+0.024	−0.39	I	3.4	2
Oct. 9	Hd.	WI	+0.072	−0.62	I	3.9	3½
11	Hd.	WI	+0.046	−0.99	I	3.4	2
Mean		1913.81	+0.045	−0.55			
Corr			−0.081	−0.14			

ϵ Cassiopeiæ

			h m s	° ′ ″			
			1 47 54.524	+63 13 38.27			
1912			s	″	″		
Jan. 24	Hd.	EII	----		+0.28	I	2.9 2
27	*Fn.*	*EII*	----	*−0.08*	*−0.12*	*I*	--- *3*
31	*Hd.*	*EII*	----	*+0.41*	*+0.37*	*0*	--- *1½*
Feb. 6	*Fn.*	*EII*	----	*+1.23*	*+1.19*	*0*	--- *2½*
8	*Hd.*	*EII*	----	*−0.11*	*−0.12*	*0*	--- *2*
9	*Fn.*	*EII*	----	*+0.53*	*+0.51*	*0*	--- --
Nov. 16	Hd.	EII	−0.02		+0.88	I	3.9 --
20	Fn.	EII	−0.06		+0.69	I	3.1 3½
26	Hd.	WII	−0.09		+0.80	I	--- --
29	Fn.	WII	−0.07		+0.48	I	3.0 2½
1914							
Jan. 7	Hd.	EI	−0.09		−0.10	I	3.9 3
8	R.	EI	−0.03		−1.04	I	--- 2
22	Wy.	WI	+0.04		+0.24	I	3.4 2
23	Fn.	WI	+0.02		+0.10	0	--- 2½
Mean		1913.47	−0.038		+0.26		
		1913.31					
Corr			−0.081		−0.33		

ϵ Cassiopeiæ s. p.

			h m s	° ′ ″			
			1 47 -----	+63 13 38.26			
1912							
Jan. 24	Hd.	EII	-----		−1.5	0	--- 4
Feb. 6	Fn.	EII	-----		−0.5	0	--- 4
7	Hd.	EII	-----		−0.7	0	--- 5
1913							
Jan. 1	Hd.	WII	-----		−0.5	0	--- 4
27	Hd.	EII	-----		−2.3	0	--- 4
29	R.	WII	-----		−0.8	0	--- --
Feb. 14	R.	WII	-----		−2.0	0	--- --
1914			s	″			
Jan. 31	Fn.	WI	-----	+1.2		0	--- 5
May 26	Wy.	EI	-----	−2.7		0	--- 4
June 2	Fn.	EI	-----	+0.3		0	--- 3½
8	Fn.	EI	-----	−2.0		0	--- 3½
11	Fn.	EI	-----	−1.0		0	-- 4½
13	Wy.	EI	-----	−0.1		0	-- 3½
16	Hd.	EI	-----	−1.6		0	--- 3½
20	Wy.	WI	-----	+2.1		0	--- 4
1915							
Jan. 13	Fn.	WI	-----	−0.8		0	--- 3½
15	Hd.	WI	-----	+2.0		0	--- 4
21	Fn.	EI	-----	−0.8		0	-- 3½
28	Wy.	EI	-----	−3.2		0	--- 4
June 10	Fn.	EI	-----	−3.0		0	--- 4
17	Fn.	WI	-----	−0.2		0	--- 3½
23	An.	EI	-----	−1.8		0	--- 4
24	Fn.	EI	-----	−0.4		0	--- 3½
1916							
Jan. 8	Fn.	EI	-----	+0.7		0	--- 4½
23	Fn.	EI	-----	−3.6		0	--- 3½
Mean		1914.31	-----	−0.93			
Corr			-----	+0.81			

α Trianguli

			h m s	° ′ ″			
			1 47 56.863	+29 8 25.97			
1912							
Oct. 4	R.	EII	+0.011	+0.31	II	2.6	1
5	R.	EII	+0.017	+0.23	I	2.9	1½
16	Fn.	WII	−0.037	−0.41	I	3.3	--
Nov. 1	Fn.	WII	+0.044	−0.58	I	3.6	2½
1913							
Dec. 13	Hd.	EI	−0.030	−0.01	I	2.9	2
16	R.	WI	+0.007	−0.32	I	---	2
18	Fn.	WI	−0.038	+0.45	I	3.9	2
1914							
Jan. 5	R.	EI	−0.054	−1.14	I	2.9	2
Nov. 26	Wy.	EI	+0.030	----	I	3.9	3
1915							
Jan. 8	Wy.	EI	−0.008	----	I	---	2½
13	An.	WI	+0.045	----	II	3.6	2
Dec. 6	Fn.	WI	−0.010	----	I	3.9	2½
9	Hd.	WI	−0.021	----	I	---	2
10	Wy.	WI	+0.001	----	I	3.4	2
15	Fn.	WI	0.000	----	I	---	2½
21	Fn.	WI	+0.061	----	0	3.5	2
1916							
Nov. 24	Fn.	WI	+0.020	----	I	3.9	2½
1918							
Feb. 8	Wy.	WII	−0.018	----	0	---	3
26	Hd.	EII	+0.109	----	0	---	3½
Mean		1915.00	+0.007	−0.18			
		1913.38					
Corr			−0.081	−0.25			

ξ Piscium

			h m s	° ′ ″			
			1 48 53.702	+2 44 36.95			
1911							
Oct. 16	Fn.	WII	+0.050	+0.43	0	---	2
18	Fn.	WII	+0.062	−0.15	I	4.5	3½
Nov. 2	Fn.	EII	+0.033	−0.14	0	4.9	2½
3	Hd.	EII	−0.005	+0.57	I	3.9	2
1914							
Oct. 30	Hd.	EI	+0.023	−0.19	I	4.9	3
31	An.	EI	+0.040	+0.73	I	4.9	2½
Nov. 3	An.	WI	+0.036	−0.28	I	4.9	3
4	Hd.	WI	+0.030	+0.09	I	4.9	3
Mean		1913.33	+0.034	+0.13			
Corr			−0.081	−0.19			

46 Cassiopeiæ

				h	m	s	°	′	″				
1911													
Oct.	23	R.	WII	1	48	59.62	+68	14	37.32	0	5.5	2	
	24	Fn.	WII			59.57			37.35	0	5.1	2	
Nov.	19	Fn.	EII			59.53			37.82	0	5.6	2	
	21	Fn.	EII			59.58			36.77	0	5.0	2	
1914													
Oct.	21	An.	EI			59.57			37.02	0	---	--	
	23	Fn.	EI			59.61			36.78	0	5.0	2	
	28	An.	EI			59.62			37.36	0	5.7	3½	
Nov.	6	Wy.	WI			59.59			36.92	I	4.9	2	
	9	Hd.	WI			59.59			36.75	I	4.9	2	
Mean		1913.50		1	48	59.587	+68	14	37.12				
Corr						−0.081			−0.34				

Weisse$_1$ I 837

				h	m	s	°	′	″				
1912													
Oct.	28	Fn.	EII	1	49	37.065	+8	20	18.27	0	6.7	3	
Nov.	2	R.	WII			36.980			18.23	0	7.0	2	
	9	Fn.	WII			37.024			18.26	0	6.3	2	
	12	R.	EII			37.023			18.34	0	7.5	2½	
1913													
Nov.	5	Hd.	EI			37.064			18.58	0	6.5	2½	
	6	Fn.	EI			37.040			18.25	0	6.5	2	
	21	R.	WI			36.987			18.51	0	6.0	1½	
	22	Hd.	WI			36.983			18.15	0	6.5	2	
Mean		1913.36		1	49	37.021	+8	20	18.32				
Corr						−0.081			−0.20				

β Arietis

				h	m	s	°	′	″				
				1	49	39.931	+20	22	5.79				
1911						s		″	″				
June	*1*	*Hd.*	*WII*			*+0.111*	*+0.50*		*+0.51*	*0*	---	--	
	8	*Hd.*	*WII*			*−0.028*	*−0.29*		*−0.32*	*0*	---	--	
	19	*Hd.*	*EII*			*+0.080*	*+0.70*		*+0.63*	*0*	---	--	
	21	*Fn.*	*EII*			*+0.045*	*+0.42*		*+0.37*	*0*	---	--	
	27	*T.*	*WII*			*+0.101*	*−0.37*		*−0.41*	*0*	---	--	
	29	*Hd.*	*WII*			*+0.054*	*−0.39*		*−0.39*	*0*	---	--	
	30	*T.*	*WII*			-----	*−0.05*		*−0.08*	*0*	---	--	
July	*5*	*Fn.*	*EII*			*−0.016*	*+0.43*		*+0.34*	*0*	---	--	
	6	*Hd.*	*EII*			-----	*−0.04*		*−0.09*	*0*	---	--	
	7	*R.*	*EII*			-----	*+0.41*		*+0.41*	*0*	---	--	
	10	*Hd.*	*WII*			-----	*−0.17*		*−0.17*	*0*	---	--	
	12	*Fn.*	*WII*			-----	*+0.51*		*+0.50*	*0*	---	--	
	17	*Hd.*	*EII*			*+0.027*	*+0.21*		*+0.21*	*0*	---	--	
	18	*R.*	*EII*			*+0.071*	*+0.34*		*+0.30*	*0*	---	--	
	24	*Hd.*	*EII*			*+0.020*	*+0.09*		*+0.09*	*0*	---	*3*	
	26	*Fn.*	*WII*			*+0.041*	*−0.56*		*−0.56*	*0*	---	--	
	28	*R.*	*WII*			*+0.098*	*+0.02*		*+0.03*	*0*	---	--	
Nov.	22	Hd.	EII			+0.070			+0.62	I	2.4	1	
	25	Hd.	WII			+0.045			+0.51	I	2.4	3	
	30	R.	WII			+0.040			−0.07	II	2.6	3	
Dec.	1	R.	WII			+0.044			----	0	---	3	
	4	Hd.	WII			+0.070			+0.16	I	2.4	3	
	5	Hd.	WII			+0.069			+0.25	I	2.4	--	
	6	Hd.	WII			+0.031			−0.10	I	2.4	--	
	7	Hd.	WII			+0.070			+0.31	I	2.4	1	
	19	Hd.	EII			+0.069			----	I	2.4	2	
	20	Hd.	EII			+0.074			----	0	---	2	
	25	R.	EII			+0.049			----	0	---	3	
	27	R.	EII			+0.057			----	II	---	--	
1912													
Jan.	4	Fn.	EII			+0.074			+0.39	I	2.5	2½	
	9	R.	EII			+0.037			+1.20	I	---	5	
	10	Hd.	EII			+0.071			+0.65	I	2.4	3	
	13	R.	WII			+0.067			----	II	2.1	3	
	15	Fn.	WII			+0.121			+0.54	I	2.9	2	
	16	R.	WII			+0.061			----	I	2.4	3½	
	19	Fn.	WII			+0.103			----	I	2.3	1½	
	22	Fn.	WII			+0.057			+0.75	0	---	3½	
May	*17*	*Hd.*	*EII*			*+0.017*	*+0.34*		*+0.40*	*0*	---	*4*	
	27	*Hd.*	*WII*			*+0.041*	*−0.50*		*−0.53*	*0*	---	*3½*	
	30	*Hd.*	*WII*			*+0.079*	*−0.68*		*−0.63*	*0*	---	--	
1912						s		″	″				
May	*31*	*R.*	*WII*			*+0.102*	*−0.56*		*−0.57*	*0*	---	--	
Aug.	22	R.	WII			+0.074			----	0	---	--	
Sept.	19	R.	WII			-----			+0.16	II	3.6	2	
	30	R.	EII			+0.059			+0.06	II	3.6	1½	
Oct.	8	R.	WII			+0.042			----	I	3.1	2½	
	9	R.	WII			+0.072			+0.77	I	2.9	3	
	15	R.	WII			+0.073			+0.74	II	3.6	1½	
Nov.	4	R.	WII			+0.031			+0.24	I	2.9	3	
	22	Fn.	EII			+0.035			+0.30	I	3.1	2	
Dec.	7	Hd.	WII			-----			+0.30	I	2.9	2½	
	9	Fn.	WII			+0.057			+0.45	I	2.3	2½	
	12	R.	EII			+0.083			+0.27	II	2.6	2	
	13	Hd.	EII			+0.050			+0.44	I	---	3	
	14	R.	EII			+0.063			+0.18	I	3.4	2½	
	15	Fn.	EII			+0.090			−0.15	I	2.7	2	
1913													
May	*30*	*R.*	*WII*			*+0.086*	*−1.06*		*−1.05*	*0*	---	--	
June	*4*	*Hd.*	*WII*			*+0.081*	*−0.24*		*−0.19*	*0*	---	--	
	9	*R.*	*WII*			*+0.105*	----		----	*0*	---	*4*	
	11	*Hd.*	*EII*			*+0.087*	*+0.26*		*+0.23*	*0*	---	*2*	
	15	*Hd.*	*EII*			-----	*+0.35*		*+0.22*	*0*	---	*3*	
	18	*Hd.*	*EII*			*+0.094*	*+0.42*		*+0.36*	*0*	---	*2*	
	26	*Fn.*	*EII*			-----	*0.00*		*−0.06*	*0*	---	*3½*	
	27	*R.*	*EII*			-----	*+0.12*		*+0.11*	*0*	---	--	
	29	*Hd.*	*EII*			*+0.082*	*+0.24*		*+0.16*	*0*	---	*3*	
	30	*Fn.*	*EII*			*+0.059*	*−0.18*		*−0.24*	*0*	---	*3½*	
July	*1*	*Hd.*	*EII*			-----	*−0.11*		*−0.17*	*0*	---	*3*	
	2	*R.*	*EII*			*+0.032*	*+0.44*		*+0.42*	*0*	---	*3*	
	4	*Fn.*	*EII*			*+0.084*	*−0.05*		*−0.09*	*0*	---	*2½*	
	6	*Hd.*	*WII*			*+0.048*	*−0.15*		*−0.12*	*0*	---	*3*	
Nov.	4	R.	EI			+0.036			−0.23	II	2.1	2½	
	12	Hd.	WI			+0.067			----	I	---	3½	
	17	Fn.	WI			+0.067			+0.61	I	2.4	3	
	20	Fn.	WI			+0.080			+0.35	I	1.9	2½	
	24	Fn.	WI			+0.111			+0.84	I	2.4	2½	
Dec.	3	Hd.	EI			+0.065			−0.39	I	2.9	2	
	4	Fn.	EI			+0.059			−0.30	I	---	3	
	5	Fn.	EI			+0.070			+0.11	I	2.4	2½	
	11	Fn.	EI			+0.043			−0.13	I	2.9	3	
	12	R.	EI			+0.072			−0.61	I	2.9	--	
	13	Fn.	WI			+0.033			−0.06	I	3.4	2½	
	17	Hd.	WI			+0.071			+0.22	0	---	3	
	20	Hd.	WI			+0.074			+0.26	I	---	2	
	22	Fn.	WI			+0.065			+0.79	I	2.9	2½	
	26	Hd.	WI			+0.027			----	I	2.9	3	
	27	Wy.	WI			+0.057			+0.75	I	2.4	2	
	29	Fn.	WI			+0.045			+0.85	I	2.4	1½	
	30	Wy.	WI			+0.116			−0.11	I	1.9	3	
1914													
Jan.	2	Hd.	EI			-----			−0.36	0	---	2	
	10	Hd.	EI			+0.057			−0.03	I	3.4	3	
	12	R.	EI			+0.036			−0.46	I	2.9	2	
	13	Wy.	EI			+0.118			−0.55	I	---	3	
	14	Hd.	EI			+0.066			−0.45	II	2.6	1	
Feb.	*9*	*Fn.*	*EI*			*+0.061*	*−0.73*		*−0.68*	*0*	---	*3½*	
	15	*Wy.*	*WI*			-----	*−0.34*		*−0.29*	*0*	---	*3*	
May	*13*	*Hd.*	*WI*			-----	*−0.30*		*−0.25*	*0*	---	*3½*	
	31	*Hd.*	*EI*			-----	*−0.09*		*−0.06*	*0*	---	*3½*	
June	*1*	*Fn.*	*EI*			*+0.031*	*−0.77*		*−0.76*	*0*	---	*3*	
	5	*Wy.*	*EI*			*+0.123*	*+0.41*		*+0.43*	*0*	---	*4*	
	7	*Fn.*	*EI*			*+0.092*	*−0.66*		*−0.67*	*0*	---	*3½*	
	11	*Hd.*	*EI*			-----	*−0.67*		*−0.73*	*0*	---	*3*	
	12	*Wy.*	*EI*			*+0.083*	*−0.84*		*−0.87*	*0*	---	*3½*	
	15	*Hd.*	*EI*			*+0.139*	*−0.62*		*−0.59*	*0*	---	*3*	
	16	*Wy.*	*EI*			*+0.095*	*−0.04*		*−0.12*	*0*	---	*3½*	
	17	*Fn.*	*EI*			-----	*−0.57*		*−0.66*	*0*	---	*3½*	
	19	*Wy.*	*EI*			*−0.042*	*+0.26*		*+0.27*	*0*	---	*3½*	
	23	*Wy.*	*WI*			*+0.005*	----		----	*0*	---	*3*	
Oct.	19	Hd.	EI			+0.082			----	II	2.6	2	
Nov.	5	Fn.	WI			+0.047			−0.31	I	2.4	2	
	11	An.	WI			+0.048			+0.69	I	3.9	2½	
	13	Fn.	WI			+0.047			−0.25	I	3.4	3½	
	17	Wy.	EI			+0.048			+0.08	II	2.1	2	
	18	Fn.	EI			+0.082			−0.58	I	4.4	2	
	24	Hd.	EI			+0.072			−0.59	0	---	--	
	26	Wy.	EI			+0.068			----	I	3.4	3	
Dec.	3	Fn.	WI			+0.060			----	I	3.4	2	
	14	Fn.	EI			−0.031			----	I	2.9	2½	

				s	"	"			
1914									
Dec.	16	An.	WI	+0.112		----	II	3.1	2
	18	Hd.	WI	+0.037		+0.05	I	4.4	2
	21	Fn.	WI	+0.035		+0.42	I	2.9	3
	23	Hd.	WI	+0.043		−0.18	I	2.9	2
	30	An.	EI	+0.048		+0.32	I	3.9	3½
	31	Fn.	EI	+0.043		----	I	---	2
1915									
Jan.	4	Hd.	EI	+0.072		----	I	2.9	2
	5	Wy.	EI	+0.086		−0.23	II	2.6	2½
	7	Hd.	EI	+0.079		−0.25	I	2.9	3
	8	Wy.	EI	+0.049		----	I	3.4	2½
	9	An.	EI	+0.073		----	II	3.6	2
	10	Wy.	WI	+0.055		+0.31	II	2.6	2½
	13	An.	WI	+0.071		+0.62	II	---	2
May	*22*	*Wy.*	*WI*	*+0.073*	*−1.04*	*−1.00*	*0*	---	3½
	24	*Fn.*	*WI*	*+0.167*	----	----	*0*	---	3½
	26	*Wy.*	*WI*	*+0.069*	*+0.01*	*+0.08*	*0*	---	*4*
	30	*Wy.*	*WI*	*+0.035*	*−0.49*	*−0.45*	*0*	---	*4*
June	*4*	*Hd.*	*WI*	-----	*+0.01*	*+0.01*	*0*	---	3½
	6	*Fn.*	*EI*	*+0.045*	----	----	*0*	---	3½
	7	*Hd.*	*EI*	*+0.055*	*−0.79*	*−0.77*	*0*	---	*2*
	8	*An.*	*EI*	*+0.069*	*−0.59*	*−0.59*	*0*	---	*3*
	9	*Fn.*	*EI*	*+0.067*	*−0.29*	*−0.24*	*0*	---	3½
	11	*An.*	*WI*	*+0.003*	*+0.50*	*+0.51*	*0*	---	*3*
	17	*Hd.*	*WI*	*+0.045*	*−0.18*	*−0.23*	*0*	---	*3*
	22	*An.*	*EI*	-----	*−0.32*	*−0.32*	*0*	---	*3*
	23	*Fn.*	*EI*	*+0.083*	*−1.01*	*−1.01*	*0*	---	3½
	24	*Wy.*	*EI*	-----	*+0.54*	*+0.44*	*0*	---	3½
	27	*Wy.*	*EI*	*+0.086*	*−0.18*	*−0.24*	*0*	---	3½
July	*6*	*An.*	*WI*	-----	*+0.62*	*+0.56*	*0*	---	*3*
	16	*An.*	*WI*	*+0.053*	----	----	*0*	---	*3*
Sept.	28	Hd.	EI	+0.086		−0.51	I	2.9	3
	29	Fn.	EI	+0.043		−0.49	I	---	3
Oct.	12	Fn.	WI	+0.053		+0.37	I	2.9	2½
	21	Fn.	WI	+0.044		+0.33	I	3.4	3
	22	Hd.	WI	+0.072		−0.16	I	2.9	3
	27	Wy.	WI	+0.026		+0.09	I	3.4	3
	28	Wy.	EI	+0.080		−0.02	II	2.6	2½
	29	Hd.	EI	+0.076		−0.29	I	2.9	3
Nov.	1	Hd.	EI	+0.085		−0.58	I	2.9	3½
	5	Wy.	EI	+0.062		−0.52	I	3.4	2½
	20	Wy.	EI	+0.081		−0.56	0	---	4
	24	Hd.	EI	+0.093		0.00	II	3.1	2
	26	Wy.	EI	+0.113		----	0	---	3½
	30	Fn.	EI	+0.077		−0.98	I	2.9	2
Dec.	2	Wy.	EI	+0.054		+0.02	I	3.4	3
	3	Fn.	EI	+0.074		−0.44	0	---	2
	6	Fn.	WI	+0.061		−0.66	I	2.9	3
	7	Wy.	WI	+0.080		+0.33	II	2.6	2½
	10	Wy.	WI	+0.048		+0.22	I	2.9	2
	15	Fn.	WI	+0.073		+0.75	I	---	2½
	21	Fn.	WI	+0.101		+0.66	I	2.9	2
1916									
Jan.	14	Wy.	EI	+0.054		+0.13	I	3.9	3½
	23	Fn.	EI	+0.039		+0.08	I	2.9	2
Feb.	*10*	*Fn.*	*WI*	*+0.102*	----	----	*0*	---	*3*
	15	*Fn.*	*WI*	*+0.035*	*−0.39*	*−0.35*	*0*	---	2½
May	*31*	*Fn.*	*EI*	*+0.070*	----	----	*0*	---	3½
June	*1*	*Hd.*	*EI*	*+0.134*	*−0.57*	*−0.60*	*0*	---	3½
	12	*Fn.*	*EI*	*+0.062*	*−0.23*	*−0.23*	*0*	---	3½
	21	*Fn.*	*WI*	*+0.053*	*−0.76*	*−0.77*	*0*	---	3½
	22	*Hd.*	*WI*	*+0.029*	*+0.59*	*+0.56*	*0*	---	*3*
July	*6*	*Fn.*	*EI*	*+0.054*	*−0.52*	*−0.60*	*0*	---	*3*
	12	*Hd.*	*EI*	*+0.104*	*−0.66*	*−0.72*	0	---	*3*
	20	*Wy.*	*EI*	*+0.079*	*−0.89*	*−0.89*	*I*	---	3½
Aug.	*3*	*Fn.*	*WI*	*+0.087*	*−0.60*	*−0.59*	*0*	---	2½
	21	Fn.	EI	+0.070		----	I	2.4	3
	24	Fn.	WI	+0.106		−0.45	I	2.4	2½
	28	Fn.	WI	+0.071		----	I	2.4	2½
Dec.	29	Hd.	WI	+0.060		−0.20	I	2.9	2
1917									
Jan.	2	Wy.	WI	-----		+0.40	I	3.4	2
Mar.	*6*	*Fn.*	*WI*	*+0.114*	*−0.62*	*−0.53*	*0*	---	3½
	12	*Hd.*	*EI*	*+0.088*	*−1.61*	*−1.56*	*0*	---	3½
	15	*Wy.*	*EI*	*+0.016*	*−1.88*	*−1.81*	*0*	---	3½
June	*3*	*Wy.*	*WI*	*+0.120*	*+0.37*	*+0.40*	*0*	---	3½
	18	*Fn.*	*WII*	*+0.088*	----	----	*0*	---	3½
	21	*Fn.*	*WII*	*+0.102*	*−0.23*	*−0.28*	*0*	---	3½
1917									
June	*24*	*Wy.*	*WII*	*+0.053*	*−0.14*	*−0.15*	*0*	---	3½
	25	*Hd*	*WII*	*+0.139*	*0.00*	*−0.04*	*0*	---	2½
	27	*Wy.*	*EII*	-----	*+0.24*	*+0.24*	*0*	---	*3*
	28	*Hd.*	*EII*	-----	*+0.04*	*−0.03*	*0*	---	*3*
July	*1*	*Hd.*	*EII*	-----	*−0.16*	*−0.24*	*0*	---	*3*
	4	*Hd.*	*EII*	-----	*−0.15*	*−0.23*	*0*	---	*3*
	29	*Wy.*	*EII*	*+0.017*	*−0.04*	*−0.07*	*0*	---	*3*
	30	*Fn.*	*EII*	*+0.018*	*+0.08*	*+0.06*	*0*	---	*3*
Aug.	*3*	*Fn.*	*WII*	*+0.100*	*+0.47*	*+0.48*	*I*	---	*2*
	5	*Hd.*	*WII*	*+0.120*	*+0.46*	*+0.49*	*I*	---	*2*
	13	Hd.	WII	+0.065		+0.50	I	2.9	2
	17	Wy.	WII	+0.109		+0.09	I	2.9	2
Oct.	26	Fn.	EII	+0.063		----	I	2.9	3
Dec.	6	Fn.	WII	+0.078		−1.00	I	2.9	1½
	10	Fn.	WII	+0.044		−0.35	I	2.9	2
	20	Hd.	EII	+0.075		−0.05	I	2.9	3
1918									
Jan.	8	Hd.	EII	+0.069		+0.05	I	2.9	3
	10	Fn.	EII	+0.066		−0.45	I	---	3½
	19	Wy.	WII	+0.038		+0.90	I	3.9	2½
	21	Fn.	WII	+0.045		----	I	2.4	2
Feb.	*8*	*Wy.*	*WII*	*+0.100*	*−0.12*	*−0.09*	*0*	---	*3*
	11	*Wy.*	*WII*	*+0.022*	*−0.36*	*−0.31*	*0*	---	*3*
	15	*Fn.*	*WII*	*+0.029*	----	----	*0*	---	*4*
	18	*Fn.*	*EII*	*+0.079*	*−0.23*	*−0.19*	*0*	---	3½
	21	*Fn.*	*EII*	*+0.122*	*−0.30*	*−0.26*	*0*	---	3½
June	*23*	*Wy.*	*WII*	*+0.080*	*−0.41*	*−0.43*	*0*	---	3½
July	*1*	*Hd.*	*WII*	*+0.053*	*−0.29*	*−0.28*	*0*	---	*3*
	8	*Hd.*	*EII*	*+0.035*	*−0.19*	*−0.32*	*0*	---	3½
	14	*Wy.*	*EII*	*+0.003*	*+0.08*	*+0.06*	*0*	---	3½
	15	*Hd.*	*EII*	*+0.066*	*−0.34*	*−0.38*	I	---	*2*
	22	*Fn.*	*EII*	*+0.078*	*−0.11*	*−0.09*	*0*	---	2½
	24	*Fn.*	*EII*	*+0.039*	*−0.23*	*−0.19*	*0*	---	*2*
Aug.	*1*	*Hd.*	*WII*	*+0.075*	*+0.05*	*+0.06*	*I*	---	*3*
	8	Hd.	WII	+0.068		+0.08	I	3.4	3
	11	Fn.	WII	+0.071		−0.54	I	2.9	2
	12	Wy.	WII	+0.062		−0.11	I	3.4	2½
Mean			1914.63		+0.064				
			1914.73						
Corr					−0.081				
					+0.07				
					−0.23				

Weisse, I 1166

				h	m	s	°	′	″			
1911												
Dec.	1	R.	WII	1	52	52.699	+30	41	48.20	0	---	1½
	2	R.	WII			52.708			48.16	0	7.0	2½
	19	Hd.	EII			52.686			47.89	0	7.0	2
	27	R.	EII			52.696			48.17	0	7.0	2
1914												
Nov.	26	Wy.	EI			52.713			48.30	0	8.0	3
Dec.	17	Fn.	WI			52.714			47.62	0	7.0	2
	21	Fn.	WI			52.661			48.29	0	7.5	3
	30	An.	EI			52.728			48.48	0	8.5	3½
1915												
Jan.	4	Hd.	EI			52.654			47.85	0	7.0	2
Mean			1913.63	1	52	52.695	+30	41	48.11			
Corr						−0.081			−0.25			

λ Arietis

				h	m	s	°	′	″			
1912												
Oct.	1	R.	EII	1	52	54.614	+23	9	27.19	I	3.9	2
	4	R.	EII			54.612			27.41	I	4.4	1
	8	R.	WII			54.683			26.02	0	5.5	1½
Nov.	1	Fn.	WII			54.600			26.60	0	5.5	2½
1914												
Jan.	6	Fn.	EI			54.623			26.85	0	5.0	2
	7	Hd.	EI			54.601			26.70	I	4.4	2
	22	Hd.	WI			54.631			26.87	0	5.5	3
	23	Fn.	WI			54.651			27.56	0	---	2½
	25	Fn.	WI			54.629			26.92	0	5.5	2
Mean			1913.48	1	52	54.627	+23	9	26.90			
Corr						−0.081			−0.24			

Lalande 3606

				h m s	° ′ ″			
1912								
Nov. 30	Hd.	WII	1	54 30.154	+59 31 25.43	0	7.0	2
Dec. 3	R.	WII		30.075	24.27	0	6.5	2
15	Fn.	EII		30.178	24.96	0	7.0	2
19	Hd.	EII		30.106	24.75	0	7.0	2
1913								
Dec. 12	R.	EI		30.120	23.56	0	6.5	3
13	Hd.	EI		30.123	24.30	0	6.5	3
18	Fn.	WI		30.181	24.93	0	7.0	2
20	Hd.	WI		30.150	25.05	0	7.0	2
29	Fn.	WI		30.157	25.05	0	7.0	1½
Mean	1913.51		1	54 30.138	+59 31 24.70			
Corr				−0.081	−0.32			

Piazzi I 223

				h m s	° ′ ″			
1911								
Oct. 25	Hd.	WII	1	54 36.714	+11 51 31.62	0	6.0	2
26	Fn.	WII		36.656	31.11	0	6.4	2
Nov. 2	Fn.	EII		36.681	30.76	0	6.0	2
3	Hd.	EII		36.648	31.62	0	6.2	2
1914								
Nov. 13	Fn.	WI		36.680	30.98	0	6.5	3½
19	Hd.	EI		36.674	31.11	0	6.5	3
21	Fn.	EI		36.668	30.54	0	6.5	3
Dec. 22	Wy.	WI		36.581	31.67	0	6.5	3
Mean	1913.37		1	54 36.663	+11 51 31.18			
Corr				−0.081	−0.21			

Bradley 271

				h m s	° ′ ″			
1912								
Oct. 28	Fn.	EII	1	55 28.293	+2 39 60.19	0	...	3
29	R.	EII		28.251	60.06	0	6.0	4
Nov. 2	R.	WII		28.239	61.31	0	6.5	2½
4	R.	WII		28.266	60.53	0	6.0	4
1913								
Nov. 4	R.	EI		28.278	59.98	0	5.5	3½
5	Hd.	EI		28.338	60.70	0	6.5	2
17	Fn.	WI		28.244	59.77	0	6.5	2
20	Fn.	WI		28.259	60.40	0	6.0	3
Mean	1913.35		1	55 28.271	+2 40 0.37			
Corr				−0.081	−0.19			

50 Cassiopeiæ

				h m s	° ′ ″			
			1	55 43.588	+71 59 10.71			
1911								
Oct. 23	R.	WII		0.00	+0.36	I	4.4	2
24	Fn.	WII		+0.02	+0.03	I	3.6	2
Nov. 7	R.	EII		−0.02	+0.50	I	...	2
10	Hd.	EII		+0.13	+0.89	I	3.9	3½
1914								
Oct. 31	An.	EI		+0.06	+0.45	I	...	3
Nov. 3	An.	WI		+0.03	+1.04	I	4.4	3½
5	Fn.	WI		−0.12	+0.35	I	3.9	2
17	Wy.	EI		−0.04	+0.75	I	3.4	2
Mean	1913.34			+0.008	+0.55			
Corr				−0.081	−0.34			

50 Cassiopeiæ s. p.

				h m s	° ′ ″			
			1	55 43.586	+71 59 10.72			
1912								
May 2	Fn.	EII		−0.12	+0.06	0	...	5
3	Hd.	EII		0.00	+0.31	0	5.5	3
4	R.	WII		−0.08	+0.06	0	...	5
9	Fn.	WII		+0.05	−1.74	0	...	4
1915								
Apr. 8	Hd.	EI		−0.07	−0.19	I	4.4	3½
13	Fn.	WI		−0.08	+0.02	0	...	3½
1915								
Apr. 17	An.	WI		----	+0.57	I	5.4	4
May 5	Hd.	EI		+0.11	−0.96	0	...	4
Mean	1913.61			−0.027	−0.23			
	1913.82							
Corr				−0.081	+0.57			

υ Ceti

				h m s	° ′ ″			
			1	55 45.866	−21 30 48.85			
1911								
Oct. 16	Fn.	WII		+0.094	−0.16	0	...	2
18	Fn.	WII		+0.083	−1.01	I	3.7	3½
Nov. 16	R.	EII		+0.076	0.00	I	4.4	2
18	R.	EII		+0.150	−0.62	I	4.4	4
1914								
Dec. 23	Hd.	WI		+0.133	−1.11	0	.	3
1915								
Jan. 4	Hd.	EI		+0.096	−1.16	I	4.4	3
5	Wy.	EI		+0.022	−1.01	I	3.9	3
10	Wy.	WI		+0.120	−0.15	I	4.4	3
Mean	1913.42			+0.097	−0.65			
Corr				−0.081	−0.06			

Paris 2509

				h m s	° ′ ″			
1912								
Nov. 26	Hd.	WII	1	55 58.866	−8 57 34.29	0	6.0	3
Dec. 12	R.	EII		58.893	34.08	0	6.0	3½
14	R.	EII		58.831	34.71	0	6.0	3
1913								
Dec. 5	Fn.	EI		58.901	34.15	0	5.5	3½
11	Fn.	EI		58.863	34.02	0	5.5	3
27	Wy.	WI		58.946	33.95	0	..	2½
1914								
Jan. 5	R.	EI		58.891	34.55	0	6.0	3½
Oct. 21	An.	EI		58.892	34.36	0	...	3
23	Fn.	EI		58.867	33.88	0	6.0	2
Nov. 4	Hd.	WI		58.863	34.64	0	6.0	3
11	An.	WI		58.906	34.49	0	6.0	3½
Mean	1914.00		1	55 58.884	−8 57 34.28			
Corr				−0.081	−0.15			

Bradley 269

				h m s	° ′ ″			
1912								
Nov. 5	Fn.	WII	1	56 17.976	+54 3 11.07	0	5.2	1½
9	Fn.	WII		17.996	10.61	0	5.0	1½
12	R.	EII		18.025	10.41	I	4.9	3½
16	Hd.	EII		18.060	11.23	I	4.9	.
1913								
Nov. 6	Fn.	EI		17.962	10.45	0	5.0	2
21	R.	WI		18.062	11.43	I	4.4	1
22	Hd.	WI		18.017	10.59	I	3.9	2
Dec. 3	Hd.	EI		17.972	10.62	I	...	3
Mean	1913.38		1	56 18.009	+54 3 10.80			
Corr				−0.081	−0.30			

γ Andromedæ *pr.*

				h m s	° ′ ″			
			1	58 22.195	+41 53 53.56			
1911				s	″	″		
Dec. 1	R.	WII		+0.061	+0.55	I	...	1½
2	R.	WII		+0.049	+0.13	II	2.6	1½
19	Hd.	EII		+0.021	+0.43	II	2.1	2
25	R.	EII		+0.077	----	I	..	3
27	R.	EII		+0.062	+0.45	II	...	.
1914								
Nov. 18	Fn.	EI		+0.029	−0.20	I	3.4	2
19	Hd.	EI		+0.062	−0.08	II	2.6	2
28	Wy.	EI		+0.006	----	0	...	2½
Dec. 16	An.	WI		+0.035	+0.18	I	...	2
17	Fn.	WI		−0.024	+0.07	I	2.4	2

				s	″	″			
1915									
Jan.	8	Wy.	EI	+0.047		---	I	---	2½
	13	An.	WI	+0.025		---	II	3.1	2
Nov.	29	Hd.	EI	+0.091		---	II	2.6	3½
Dec.	6	Fn.	WI	+0.021		---	I	2.4	2½
	9	Hd.	WI	+0.006		---	0	---	3
	10	Wy.	WI	+0.026		---	II	2.1	2
	15	Fn.	WI	+0.037		---	I	---	2
1916									
May	*31*	*Fn.*	*EI*	*−0.009*	*−0.11*	*−0.12*	*0*	---	*3½*
June	*1*	*Hd.*	*EI*	*−0.046*	*−0.70*	*−0.70*	*0*	---	*3½*
	5	*Wy.*	*EI*	*−0.042*	*−0.79*	*−0.80*	*0*	---	*4*
	11	*Wy.*	*EI*	*+0.065*	*−0.71*	*−0.71*	*0*	---	*4*
	12	*Fn.*	*EI*	*+0.051*	*−0.20*	*−0.20*	*0*	---	*3½*
	21	*Fn.*	*WI*	*−0.008*	*−0.44*	*−0.44*	*0*	---	*3½*
	22	*Hd.*	*WI*	*+0.028*	*−0.28*	*−0.28*	*0*	---	*3*
July	*5*	*Wy.*	*EI*	*+0.033*	*−0.66*	*−0.65*	*I*	---	*3*
	6	*Fn.*	*EI*	*+0.014*	*−0.57*	*−0.56*	*0*	---	*3*
	12	*Hd.*	*EI*	*+0.032*	*−0.63*	*−0.62*	*I*	---	*3*
	20	*Wy.*	*EI*	*+0.039*	*−0.58*	*−0.58*	*0*	---	*3*
Sept.	7	Wy.	WI	−0.014		−0.23	I	2.9	3
Nov.	24	Fn.	WI	+0.040		+0.11	I	2.4	2½
Dec.	26	Fn.	WI	+0.019		+0.71	I	2.9	2½
	29	Hd.	WI	−0.001		−0.16	II	2.6	2
1917									
Mar.	*6*	*Fn.*	*WI*	*+0.004*	*+0.19*	*+0.17*	*0*	---	*3½*
	12	*Hd.*	*EI*	*+0.041*	*−0.08*	*−0.09*	*0*	---	*3*
	15	*Wy.*	*EI*	*−0.038*	*+0.49*	*+0.48*	*0*	---	*4*
	16	*Hd.*	*EI*	*+0.023*	*−1.78*	*−1.79*	*0*	---	*4*
	20	*Hd.*	*EI*	*+0.050*	*−0.05*	*−0.05*	*0*	---	*3*
	22	*Fn.*	*EI*	*+0.016*	----	----	*0*	---	*3½*
	30	*Fn.*	*WI*	*+0.167*	----	----	*0*	---	*3½*
Apr.	*3*	*Hd.*	*WI*	*+0.068*	*+0.60*	*+0.59*	*0*	---	*3½*
May	*14*	*Hd.*	*WI*	*+0.080*	*−0.52*	*−0.52*	*0*	---	*3*
June	*3*	*Wy.*	*WI*	*+0.085*	*−0.52*	*−0.53*	*0*	---	*3½*
	18	*Fn.*	*WII*	*+0.099*	----	----	*0*	---	*3½*
	20	*Wy.*	*WII*	*−0.003*	*−0.93*	*−0.93*	*0*	---	*3*
	21	*Fn.*	*WII*	*+0.062*	*+0.60*	*+0.61*	*0*	---	*3½*
	24	*Wy.*	*WII*	*−0.040*	*−0.09*	*−0.09*	*0*	---	*3*
	25	*Hd.*	*WII*	*+0.078*	*+0.27*	*+0.28*	*0*	---	*3*
	27	*Wy.*	*EII*	-----	*−0.50*	*−0.50*	*0*	---	*3*
	28	*Hd.*	*EII*	-----	*+0.78*	*+0.79*	*0*	---	*3*
July	*1*	*Hd.*	*EII*	-----	*−0.86*	*−0.85*	*0*	---	*3½*
	4	*Hd.*	*EII*	-----	*−0.03*	*−0.02*	*0*	---	*3*
	29	*Wy.*	*EII*	*−0.021*	*−0.82*	*−0.82*	*0*	---	*3*
	30	*Fn.*	*EII*	*−0.036*	*−0.01*	*−0.01*	*0*	---	*3*
Aug.	*5*	*Hd.*	*WII*	*+0.054*	*+0.71*	*+0.71*	*II*	---	*2*
	13	Hd.	WII	+0.012		+0.77	II	2.6	2
	17	Wy.	WII	+0.056		+0.67	II	2.1	2
Dec.	6	Fn.	WII	+0.004		+0.67	I	2.4	1½
	20	Hd.	EII	+0.046		−0.20	II	2.6	2
1918									
Jan.	8	Hd.	EII	+0.025		−0.18	II	2.6	3
	10	Fn.	EII	+0.085		−0.90	I	---	3½
	19	Wy.	WII	−0.008		+1.25	II	1.6	2
	21	Fn.	WII	+0.033		+0.48	I	2.4	2
Feb.	*8*	*Wy.*	*WII*	*−0.008*	*+1.05*	*+1.05*	*I*	---	*3*
	11	*Wy.*	*WII*	*−0.055*	*−0.07*	*−0.08*	*I*	---	*3*
	15	*Fn.*	*WII*	*−0.005*	*+0.45*	*+0.44*	*0*	---	*4*
	18	*Fn.*	*EII*	*+0.027*	*+0.50*	*+0.49*	*0*	---	*3½*
	21	*Fn.*	*EII*	*+0.115*	*−0.67*	*−0.68*	*0*	---	*3½*
	26	*Hd.*	*EII*	*+0.091*	----	----	*0*	---	*3*
	28	*Wy.*	*EII*	*−0.031*	*−0.77*	*−0.78*	*0*	---	*4*
Mar.	*7*	*Fn.*	*EII*	*+0.053*	*+0.34*	*+0.32*	*0*	---	*3½*
	8	*Wy.*	*EII*	*+0.002*	*−0.60*	*−0.61*	*0*	---	*4*
	25	*Fn.*	*WII*	*−0.008*	*+0.31*	*+0.30*	*0*	---	*4*
Apr.	*5*	*Fn.*	*EII*	*+0.052*	----	----	*0*	---	*3½*
May	*8*	*Fn.*	*EII*	*+0.015*	*+0.72*	*+0.72*	*0*	---	*3½*
June	*23*	*Wy.*	*WII*	*+0.009*	*+0.42*	*+0.43*	*0*	---	*3½*
	27	*Hd.*	*WII*	*+0.080*	*+1.16*	*+1.17*	*0*	---	*3½*
July	*1*	*Hd.*	*WII*	*+0.056*	*−0.36*	*−0.36*	*I*	---	*3*
	7	*Wy.*	*EII*	-----	*−0.19*	*−0.19*	*0*	---	*3½*
	8	*Hd.*	*EII*	*+0.005*	*−0.34*	*−0.32*	*I*	---	*3½*
	14	*Wy.*	*EII*	*−0.034*	*+0.20*	*+0.21*	*0*	---	*3½*
	15	*Hd.*	*EII*	*+0.028*	*−0.44*	*−0.43*	*I*	---	*2*
	17	*Wy.*	*EII*	*+0.005*	*+0.05*	*+0.06*	*0*	---	*3½*
	21	*Wy.*	*EII*	*+0.054*	*−0.43*	*−0.43*	*0*	---	*3½*
	22	*Fn.*	*EII*	*+0.041*	*−0.20*	*−0.20*	*0*	---	*2½*
	24	*Fn.*	*EII*	*+0.010*	*−0.87*	*−0.88*	*0*	---	*2*

				s	″	″			
1918									
Aug.	*1*	*Hd.*	*WII*	*+0.017*	*+0.46*	*+0.46*	*I*	---	*3*
	8	*Hd.*	*WII*	*0.000*	*+0.72*	*+0.72*	*II*	---	*3*
Mean			1915.69	+0.032		+0.23			
			1915.92						
Corr				−0.081		−0.27			

γ Andromedæ *seq.*

	h	m	s	°	′	″
	1	58	23.074	+41	53	58.35

				s	″	″			
1912									
Nov.	30	Hd.	WII	−0.034		−0.29	I	4.9	2
Dec.	9	Fn.	WII	−0.124		+0.27	0	5.3	2
	13	Hd.	EII	−0.089		+0.29	0	5.5	3
	19	Hd.	EII	−0.106		+0.10	I	4.4	2
1914									
Jan.	8	R.	EI	−0.094		−0.31	0	---	3
	10	Hd.	EI	−0.042		+0.26	0	---	3
	12	R.	EI	−0.065		+0.19	0	5.5	3
	22	Hd.	WI	−0.014		−0.11	0	5.5	2
	27	Fn.	WI	+0.005		+0.41	0	---	3
Mean			1913.55	−0.063		+0.09			
Corr				−0.081		−0.27			

Bradley 280

				h	m	s	°	′	″			
1911												
Nov.	21	Fn.	EII	1	58	34.689	−0	18	18.22	0	6.0	2½
	22	Hd.	EII			34.700			17.20	0	6.0	---
	25	Hd.	WII			34.671			18.08	0	5.8	---
	30	R.	WII			34.725			18.76	0	5.0	4½
1914												
Nov.	26	Wy.	EI			34.749			18.14	0	6.5	3½
Dec.	18	Hd.	WI			34.746			18.82	0	6.0	3
	21	Fn.	WI			34.751			18.95	0	6.0	3½
	30	An.	EI			34.702			18.52	0	6.0	3½
Mean			1913.43	1	58	34.717	−0	18	18.34			
Corr						−0.081			−0.18			

Lalande 3813

				h	m	s	°	′	″			
1912												
Sept.	30	R.	EII	1	58	42.487	−24	19	9.91	0	---	3½
Oct.	1	R.	EII			42.505			8.12	0	6.0	3
	9	R.	WII			42.455			8.63	0	---	4½
	16	Fn.	WII			42.447			9.49	0	6.2	4
1914												
Jan.	14	Hd.	EI			42.470			8.82	0	6.5	2
Oct.	28	An.	EI			42.495			9.82	0	7.0	4
	30	Hd.	EI			42.433			9.61	0	6.5	3½
Nov.	2	Fn.	WI			42.463			8.39	0	6.5	3
	9	Hd.	WI			42.489			9.17	0	6.5	3
Mean			1913.83	1	58	42.472	−24	19	9.11			
Corr						−0.081			−0.04			

Lalande 3833

				h	m	s	°	′	″			
1911												
Dec.	6	Hd.	WII	1	59	36.843	−17	56	43.76	0	7.0	2
	7	Hd.	WII			36.855			44.01	0	---	---
1912												
Jan.	4	Fn.	EII			36.816			-----	0	---	3½
	9	R.	EII			36.802			43.72	0	---	5
	10	Hd.	EII			36.856			44.13	0	7.5	4
1915												
Sept.	22	Wy.	EI			36.812			44.04	0	7.0	3
	24	Hd.	EI			36.817			43.69	0	7.0	3
Oct.	9	Hd.	WI			36.862			43.97	0	7.0	3½
	11	Hd.	WI			36.841			44.19	0	6.5	3
Mean			1913.66	1	59	36.834	−17	56	43.94			
			1913.86									
Corr						−0.081			−0.09			

α Arietis

h m s 2 2 5.860 +23 ° 2 ′ 13.42 ″

				s	″	″			
1911									
June	1	*Hd.*	*WII*	*+0.097*	----	----	0	---	--
	8	*Hd.*	*WII*	*+0.033*	*−0.56*	*−0.57*	0	---	--
	9	*T.*	*EII*	-----	*−0.49*	*−0.53*	0	---	--
	14	*Fn.*	*EII*	*+0.093*	*−0.32*	*−0.35*	0	---	--
	19	*Hd.*	*EII*	*+0.106*	----	----	0	---	--
	20	*T.*	*EII*	*−0.029*	----	----	0	---	--
	21	*Fn.*	*EII*	*+0.049*	*−0.31*	*−0.35*	0	---	--
	27	*T.*	*WII*	*+0.067*	----	----	0	---	--
	28	*Fn.*	*WII*	*+0.002*	----	----	0	---	--
	29	*Hd.*	*WII*	*+0.025*	----	----	0	---	--
July	4	*R.*	*EII*	*+0.102*	----	----	0	---	--
	5	*Fn.*	*EII*	*+0.019*	----	----	0	---	--
	17	*Hd.*	*EII*	*−0.033*	----	----	0	---	--
	18	*R.*	*EII*	*+0.044*	----	----	0	---	--
	24	*Hd.*	*EII*	*+0.002*	----	----	0	---	--
	26	*Fn.*	*WII*	*+0.012*	----	----	0	---	--
	28	*R.*	*WII*	*+0.086*	----	----	0	---	--
	30	*Fn.*	*WII*	*−0.005*	----	----	0	---	--
Oct.	24	Fn.	WII	+0.013		+0.47	II	2.2	2
	25	Hd.	WII	+0.049		----	II	2.1	2
	26	Fn.	WII	+0.026		0.00	I	2.1	2
Nov.	2	Fn.	EII	+0.026		----	--	---	--
	3	Hd.	EII	−0.005		----	II	2.1	--
	7	R.	EII	+0.036		----	II	---	1½
	10	Hd.	EII	+0.046		−0.33	II	2.1	--
	16	R.	EII	+0.032		----	I	---	2
	18	R.	EII	+0.007		----	II	2.1	2
	19	Fn.	EII	+0.061		----	I	1.7	2
Dec.	5	Hd.	WII	+0.026		−0.35	II	2.1	--
	20	Hd.	EII	+0.030		----	0	---	--
1912									
Jan.	13	R.	WII	+0.042		----	II	2.1	3
	15	Fn.	WII	+0.020		----	II	2.6	--
	16	R.	WII	+0.059		----	II	1.9	4
	19	Fn.	WII	−0.001		----	II	2.4	--
	22	Fn.	WII	+0.001		----	0	---	--
	23	R.	EII	+0.051		----	I	2.4	4
May	9	*Hd.*	*WII*	*+0.039*	*−0.38*	*−0.33*	0	---	3
	17	*Hd.*	*EII*	*+0.023*	*−0.39*	*−0.35*	0	---	3½
	24	*R.*	*EII*	*+0.038*	*−0.36*	*−0.34*	0	---	--
	26	*Fn.*	*EII*	*+0.102*	*−0.10*	*−0.08*	0	---	--
	27	*Hd.*	*WII*	*+0.070*	*−1.05*	*−1.06*	0	---	3½
	30	*Hd.*	*WII*	*+0.058*	*−0.04*	*0.00*	0	---	--
	31	*R.*	*WII*	*+0.047*	----	----	0	---	--
June	7	*R.*	*EII*	*−0.011*	----	----	0	---	--
Sept.	17	R.	WII	+0.067		−0.13	II	2.6	1½
Oct.	2	R.	EII	+0.035		----	II	2.1	1
	5	R.	EII	+0.024		+0.30	II	2.1	1½
	7	R.	WII	+0.073		----	II	2.1	2
	8	R.	WII	+0.069		+0.35	II	2.6	2
	29	R.	EII	+0.088		----	II	2.1	4
Nov.	1	Fn.	WII	−0.006		----	I	1.6	2
	2	R.	WII	+0.041		----	II	2.6	2
	4	R.	WII	+0.080		----	II	2.6	2
	10	R.	EII	+0.065		----	II	2.6	3
	11	R.	EII	+0.041		----	I	---	5
	12	R.	EII	+0.060		----	II	---	--
	19	R.	EII	+0.047		----	I	---	5
	20	Fn.	EII	+0.044		----	II	---	2½
	21	R.	EII	+0.061		----	II	2.6	2½
	22	Fn.	EII	+0.084		−0.77	I	2.2	2
	23	Hd.	EII	+0.024		----	0	---	3
	25	Fn.	WII	+0.039		----	I	2.4	2
	26	Hd.	WII	+0.008		----	II	2.6	2
	29	Fn.	WII	+0.047		----	II	2.1	2
Dec.	20	Fn.	EII	+0.024		+0.02	II	2.4	2
1913									
May	1	*Fn.*	*EII*	*+0.061*	*+0.50*	*+0.53*	0	---	3½
	28	*Hd.*	*WII*	*+0.010*	*−0.27*	*−0.22*	0	---	3
June	4	*Hd.*	*WII*	*+0.077*	----	----	0	---	3
	5	*Fn.*	*WII*	*−0.011*	*−0.29*	*−0.30*	0	---	3½
	9	*R.*	*WII*	*+0.052*	----	----	0	---	4
	11	*Hd.*	*EII*	*+0.085*	*+0.21*	*+0.19*	0	---	2
	12	*Fn.*	*EII*	*+0.142*	----	----	0	---	3½

				s	″	″			
1913									
June	15	*Hd.*	*EII*	-----	*+0.68*	*+0.59*	0	---	3
	17	*R.*	*EII*	*+0.161*	----	----	0	---	3½
	18	*Hd.*	*EII*	*+0.043*	----	----	0	---	2
	26	*Fn.*	*EII*	-----	*−0.20*	*−0.25*	0	---	3½
	27	*R.*	*EII*	-----	*−0.03*	*−0.04*	0	---	3
	29	*Hd.*	*EII*	*+0.061*	----	----	0	---	3
	30	*Fn.*	*EII*	*+0.053*	----	----	0	---	3
July	4	*Fn.*	*EII*	*−0.001*	*+0.53*	*+0.48*	0	---	3
	6	*Hd.*	*WII*	*+0.042*	----	----	0	---	3
	7	*Fn.*	*WII*	*+0.038*	*+0.67*	*+0.61*	0	---	3
	10	*Hd.*	*WII*	*+0.062*	----	----	0	---	2
Nov.	12	Hd.	WI	+0.041		----	II	2.6	3
	20	Fn.	WI	+0.049		−0.14	I	1.9	2½
	21	R.	WI	+0.078		+0.21	II	1.6	1
	22	Hd.	WI	+0.035		+0.34	II	2.1	2
	24	Fn.	WI	+0.073		+1.65	I	---	2½
Dec.	3	Hd.	EI	+0.021		+0.08	II	2.1	2
	4	Fn.	EI	+0.024		+0.22	I	---	2
	5	Fn.	EI	+0.022		−0.42	II	2.1	3
	9	R.	EI	+0.029		----	II	1.1	2
	11	Fn.	EI	+0.030		----	I	1.9	2
	12	R.	EI	+0.049		----	I	---	5
	13	Hd.	EI	+0.008		----	II	2.1	2
	15	Fn.	WI	+0.045		----	I	2.9	2½
	16	R.	WI	+0.062		----	I	---	--
	17	Hd.	WI	+0.041		----	I	---	3
	18	Fn.	WI	+0.069		----	I	1.9	2½
	19	R.	WI	+0.027		----	I	---	2
	20	Hd.	WI	+0.046		----	II	2.1	2
	22	Fn.	WI	+0.044		----	I	2.4	2½
	26	Hd.	WI	+0.070		----	II	2.1	3½
	27	Wy.	WI	+0.008		----	I	2.4	2
	29	Fn.	WI	+0.038		----	I	1.9	1½
	30	Wy.	WI	+0.006		----	I	---	--
1914									
Jan.	5	R.	EI	+0.002		----	II	1.6	2½
	6	Fn.	EI	+0.050		----	I	1.9	2
	7	Hd.	EI	+0.040		----	II	2.1	3
	8	R.	EI	+0.097		----	I	---	3
	13	Wy.	EI	−0.023		----	I	2.4	3½
	20	Fn.	WI	+0.033		----	0	---	3
	23	Fn.	WI	+0.045		----	0	---	3
	25	Fn.	WI	+0.033		----	I	---	2
May	1	*Fn.*	*WI*	*+0.001*	*−0.66*	*−0.63*	0	---	3½
	14	*Wy.*	*WI*	*+0.017*	*+0.23*	*+0.26*	0	---	3
	22	*Hd.*	*EI*	*+0.043*	*+0.17*	*+0.22*	0	---	3
	25	*Wy.*	*EI*	*+0.060*	----	----	0	---	3½
	31	*Hd.*	*EI*	-----	*−0.62*	*−0.58*	0	---	3
June	1	*Fn.*	*EI*	*−0.021*	----	----	0	---	3½
	2	*Wy.*	*EI*	*+0.025*	----	----	0	---	3½
	4	*Fn.*	*EI*	*+0.009*	----	----	0	---	3½
	5	*Wy.*	*EI*	*+0.164*	----	----	0	---	3½
	7	*Fn.*	*EI*	*+0.115*	----	----	0	---	3½
	11	*Hd.*	*EI*	-----	*−0.90*	*−0.91*	0	---	3
	12	*Wy.*	*EI*	*+0.094*	----	----	0	---	4
	15	*Hd.*	*EI*	*+0.079*	----	----	0	---	3
	16	*Wy.*	*EI*	*+0.066*	----	----	0	---	3½
	19	*Wy.*	*WI*	*−0.013*	----	----	0	---	3½
	23	*Wy.*	*WI*	*−0.003*	----	----	0	---	3
	26	*Wy.*	*WI*	*+0.089*	*+0.23*	*+0.19*	0	---	3
	28	*Fn.*	*WI*	*+0.049*	----	----	0	---	3½
	29	*Hd.*	*WI*	*+0.015*	----	----	0	---	3
July	2	*Hd.*	*WI*	*+0.039*	----	----	I	---	2
Oct.	2	Wy.	WI	+0.015		----	II	2.1	2
Nov.	4	Hd.	WI	+0.021		----	II	2.1	2
	6	Wy.	WI	−0.008		----	II	1.6	2
	10	Fn.	WI	+0.037		----	0	---	2½
	11	An.	WI	−0.001		----	II	3.1	--
	13	Fn.	WI	+0.041		----	I	---	4
	17	Wy	EI	+0.056		----	II	1.6	2
	19	Hd.	EI	+0.064		----	II	2.1	3
	21	Fn.	EI	+0.038		----	I	1.9	3
	24	Hd.	EI	+0.034		----	I	2.9	2
	26	Wy.	EI	+0.042		----	I	2.9	3½
Dec.	3	Fn.	WI	+0.021		----	I	2.4	2
	14	Fn.	WI	+0.032		----	I	1.9	2½
	17	Fn.	WI	+0.006		----	I	1.9	2
	21	Fn.	WI	+0.027		----	I	2.4	3

				s	″	″			
1914									
Dec.	22	Wy.	WI	+0.038		----	II	2.6	2½
	23	Hd.	WI	+0.025		----	II	3.1	2
	30	An.	EI	+0.027		----	I	2.9	3½
	31	Fn.	EI	+0.053		----	I	2.9	2½
1915									
Jan.	4	Hd.	EI	+0.042		----	II	2.1	2
	5	Wy.	EI	+0.038		----	II	2.6	2
	7	Hd.	EI	+0.077		−0.33	II	2.6	3
	8	Wy.	EI	+0.049		----	I	---	3
	9	An.	EI	+0.064		----	II	3.1	2½
	10	Wy.	WI	+0.007		−0.64	II	2.6	2
	13	An.	WI	+0.032		----	II	2.6	2
Apr.	*13*	*Fn.*	*WI*	*+0.047*	----	----	*0*	---	*4*
May	*22*	*Wy.*	*WI*	*+0.063*	----	----	*0*	---	*3½*
	24	*Fn.*	*WI*	*+0.025*	----	----	*0*	---	*3½*
	26	*Wy.*	*WI*	*+0.013*	*−0.12*	*−0.06*	*0*	---	*3½*
	30	*Wy.*	*WI*	*+0.017*	*+0.15*	*+0.19*	*0*	---	*3½*
June	*4*	*Hd.*	*WI*	-----	*−0.04*	*−0.03*	*0*	---	*3½*
	6	*Fn.*	*EI*	*+0.143*	----	----	*0*	---	*3½*
	7	*Hd.*	*EI*	*−0.039*	*−0.36*	*−0.33*	*0*	---	*2*
	8	*An.*	*EI*	*+0.047*	----	----	*0*	---	*3*
	9	*Fn.*	*EI*	*+0.025*	*+0.17*	*+0.19*	*0*	---	*3½*
	11	*An.*	*WI*	*+0.060*	----	----	*0*	---	*3*
	15	*Wy.*	*WI*	-----	*0.00*	*+0.01*	*0*	---	*3½*
	17	*Hd.*	*WI*	*+0.043*	----	----	*0*	---	*3*
	23	*Fn.*	*EI*	*+0.143*	----	----	*0*	---	*3½*
	24	*Wy.*	*EI*	*+0.062*	*+0.35*	*+0.25*	*0*	---	*3*
	27	*Wy.*	*EI*	*+0.034*	*+0.35*	*+0.27*	*0*	---	*3½*
	28	*Hd.*	*EI*	*+0.063*	*−0.31*	*−0.40*	*0*	---	*3*
Sept.	22	Wy.	EI	−0.010		----	II	2.6	2½
Oct.	22	Hd.	WI	+0.042		----	II	2.6	3
	23	Wy.	WI	+0.049		+0.54	II	3.4	2½
	27	Fn.	WI	+0.046		+0.15	I	2.9	2½
	28	Wy.	EI	+0.048		−0.15	II	2.1	2½
	29	Hd.	EI	+0.017		+0.17	II	2.6	3
	30	Fn.	EI	+0.064		+0.58	I	2.4	2½
Nov.	1	Hd.	EI	+0.062		+0.19	II	2.6	3½
	5	Wy.	EI	+0.052		----	I	2.4	2
	17	Wy.	WI	+0.020		----	II	2.6	2½
	19	Fn.	EI	+0.030		----	0	---	2½
	22	Fn.	EI	+0.101		----	I	---	2
	24	Hd.	EI	+0.028		----	II	2.1	2
	26	Wy.	EI	+0.055		----	I	---	3½
	29	Hd.	EI	+0.098		----	II	2.6	3
Dec.	2	Wy.	EI	+0.034		----	I	3.4	3
	3	Fn.	EI	+0.051		−0.18	0	---	2
	10	Wy.	WI	+0.021		----	II	2.1	2
	15	Fn.	WI	+0.024		----	I	---	3
	27	Wy.	WI	+0.007		----	I	2.9	3
1916									
Jan.	14	Wy.	EI	+0.040		----	I	2.9	3½
Mar.	*4*	*Fn.*	*WI*	*+0.058*	*−0.54*	*−0.47*	*0*	---	*3½*
June	*1*	*Hd.*	*EI*	*+0.089*	*−0.18*	*−0.16*	*0*	---	*3*
	11	*Wy.*	*EI*	*+0.020*	*−0.54*	*−0.55*	*0*	---	*4*
	19	*Hd.*	*WI*	*+0.018*	*−0.34*	*−0.35*	*0*	---	*3*
	21	*Fn.*	*WI*	*−0.001*	*−0.23*	*−0.23*	*0*	---	*3½*
	22	*Hd.*	*WI*	*−0.002*	*−0.20*	*−0.19*	*0*	---	*3*
	28	*Hd.*	*WI*	*+0.059*	*−0.24*	*−0.24*	*0*	---	*3*
July	*2*	*Wy.*	*WI*	*+0.067*	*+0.59*	*+0.56*	*0*	---	*3½*
	5	*Wy.*	*EI*	*+0.070*	*−0.58*	*−0.63*	*I*	---	*3*
	12	*Hd.*	*EI*	*+0.048*	*−0.55*	*−0.60*	*I*	---	*3*
	20	*Wy.*	*EI*	*+0.063*	*−0.56*	*−0.57*	*0*	---	*3*
Aug.	*7*	*Fn.*	*EI*	*+0.028*	----	----	*I*	---	*2½*
Nov.	20	Fn.	WI	+0.063		----	I	2.4	2
Dec.	28	Fn.	WI	+0.034		----	I	2.4	3
	29	Hd.	WI	+0.024		−0.22	II	2.6	2
1917									
Jan.	2	Wy.	WI	+0.032		−0.12	II	2.1	2
	8	Wy.	EI	+0.060		+0.17	II	2.1	2½
	12	Fn.	EI	+0.065		−0.09	I	2.9	2
	18	Fn.	EI	+0.061		−0.67	I	2.9	3½
	19	Hd.	EI	+0.033		+0.38	II	2.1	2
Mar.	*6*	*Fn.*	*WI*	*+0.073*	*+0.24*	*+0.35*	*0*	---	*3½*
	12	*Hd.*	*EI*	*+0.062*	*−1.08*	*−1.03*	*0*	---	*3*
	15	*Wy.*	*EI*	*−0.006*	*+0.43*	*+0.49*	*0*	---	*4*
	20	*Hd.*	*EI*	*+0.076*	*−0.53*	*−0.51*	*0*	---	*3*
	22	*Fn.*	*EI*	*+0.016*	*−0.55*	*−0.52*	*0*	---	*3½*
	30	*Fn.*	*WI*	*+0.102*	*−0.28*	*−0.22*	*0*	---	*3½*

				s	″	″			
1917									
Apr.	*3*	*Hd.*	*WI*	*+0.066*	*+0.07*	*+0.10*	*0*	---	*3½*
	9	*Hd.*	*WI*	*+0.020*	*+0.09*	*+0.17*	*0*	---	*3½*
May	*10*	*Wy.*	*WI*	*−0.012*	----	----	*0*	---	*4*
June	*18*	*Fn.*	*WII*	*+0.097*	----	----	*0*	---	*3½*
	20	*Wy.*	*WII*	*+0.031*	*−0.24*	*−0.27*	*0*	---	*3*
	21	*Fn.*	*WII*	*+0.114*	*−0.35*	*−0.37*	*0*	---	*3½*
	24	*Wy.*	*WII*	*+0.007*	----	----	*0*	---	*3*
	25	*Hd.*	*WII*	*+0.087*	*−0.67*	*−0.70*	*0*	---	*3*
	27	*Wy.*	*EII*	-----	*−0.04*	*−0.04*	*0*	---	*3*
	28	*Hd.*	*EII*	-----	*0.00*	*−0.06*	*0*	---	*3½*
July	*1*	*Hd.*	*EII*	-----	*+0.39*	*+0.31*	*0*	---	*3½*
	4	*Hd.*	*EII*	-----	*−0.12*	*−0.18*	*0*	---	*3½*
	29	*Wy.*	*EII*	*+0.020*	*−0.43*	*−0.46*	*0*	---	*3*
	30	*Fn.*	*EII*	*+0.007*	*−0.25*	*−0.27*	*0*	---	*3*
Aug.	*5*	*Hd.*	*WII*	*+0.076*	*−0.25*	*−0.24*	*I*	---	*2*
	12	Fn.	WII	+0.058		−0.75	I	2.4	2
	13	Hd.	WII	+0.014		−0.08	II	2.6	2
	17	Wy.	WII	+0.057		−0.22	II	2.1	2
Dec.	6	Fn.	WII	−0.006		−0.15	I	1.9	1½
	20	Hd.	EII	+0.024		+0.21	II	2.1	2
	27	Fn.	EII	+0.038		+0.82	I	2.4	2
1918									
Jan.	8	Hd.	EII	+0.058		+0.09	II	2.6	3
	19	Wy.	WII	+0.042		−0.30	II	1.6	2
Feb.	*8*	*Wy.*	*WII*	*+0.056*	*−1.43*	*−1.40*	*I*	---	*3*
	11	*Wy.*	*WII*	*+0.011*	*−1.03*	*−0.98*	*I*	---	*3*
	15	*Fn.*	*WII*	*−0.033*	*−0.89*	*−0.81*	*0*	---	*4*
	18	*Fn.*	*EII*	*+0.075*	*−1.19*	*−1.15*	*0*	---	*3*
	28	*Wy.*	*EII*	*+0.051*	*−0.96*	*−0.90*	*0*	---	*4*
Mar.	*7*	*Fn.*	*EII*	*+0.060*	*−1.12*	*−1.04*	*0*	---	*3½*
	8	*Wy.*	*EII*	*+0.077*	*+0.07*	*+0.12*	*0*	---	*4*
June	*23*	*Wy.*	*WII*	*+0.045*	*−1.31*	*−1.34*	*I*	---	*3½*
	26	*Wy.*	*WII*	*+0.043*	----	----	*0*	---	--
July	*1*	*Hd.*	*WII*	*+0.105*	*−0.80*	*−0.80*	*I*	---	*3*
	7	*Wy.*	*EII*	-----	*+0.25*	*+0.24*	*0*	---	*3½*
	8	*Hd.*	*EII*	*+0.030*	*−0.09*	*−0.20*	*I*	---	*3½*
	14	*Wy.*	*EII*	*+0.026*	*−0.24*	*−0.27*	*0*	---	*3½*
	15	*Hd.*	*EII*	*+0.029*	*−0.22*	*−0.26*	*I*	---	*2*
	17	*Wy.*	*EII*	*+0.004*	*−0.15*	*−0.19*	*0*	---	*3½*
	21	*Wy.*	*EII*	*+0.038*	*−0.30*	*−0.29*	*0*	---	*3½*
	22	*Fn.*	*EII*	*+0.067*	*−0.36*	*−0.35*	*0*	---	*2½*
	24	*Fn.*	*EII*	*+0.009*	*−0.25*	*−0.22*	*0*	---	*2*
Aug.	*1*	*Hd.*	*WII*	*+0.026*	*−0.32*	*−0.30*	*I*	---	*3*
	8	*Hd.*	*WII*	*+0.035*	*−0.36*	*−0.36*	*I*	---	*3*
	11	Fn.	WII	+0.010		−0.61	I	2.4	2
Mean			1914.45	+0.038		+0.01			
			1915.33						
Corr				−0.081		−0.24			

Bradley 256

				h	m	s	°	′	″			
1911												
Dec.	2	R.	WII	2	2	52.51	+83	8	22.05	0	---	3
	4	Hd.	WII			52.71			22.92	0	7.0	4
	19	Hd.	EII			52.44			22.77	0	7.0	2
	27	R.	EII			52.66			22.55	0	---	--
1915												
Sept.	28	Hd.	EI			52.31			22.81	0	6.5	3
	29	Fn.	EI			52.67			22.20	0	---	3
Oct.	12	Fn.	WI			52.31			23.19	0	6.5	3
	21	Fn.	WI			52.18			22.97	0	7.5	3
Mean			1913.86	2	2	52.474	+83	8	22.68			
Corr						−0.081			−0.38			

Bradley 256 s. p.

				h	m	s	°	′	″			
1911												
May	20	T.	WII	2	2	-----	+83	8	22.21	0	---	--
	22	Fn.	WII			53.67			21.15	0	---	--
	24	T.	EII			-----			22.35	0	---	--
	25	Fn.	EII			52.80			21.75	0	---	--
1915												
June	8	Hd.	EI			52.35			21.24	0	7.5	3
	9	An.	EI			-----			21.31	0	7.5	3½

1915			h	m	s	°	′	″			
June 17 Fn.	WI				52.34			22.33	0	7.0	2½
19 Wy.	WI				52.57			21.94	0	7.0	3
Mean	1913.83		2	2	52.746	+83	8	21.78			
	1913.42										
Corr					−0.081			+0.46			

Bradley 288

1912			h	m	s	°	′	″			
Nov. 5 Fn.	WII		2	3	3.090	+37	25	57.31	0	5.2	1½
9 Fn.	WII				3.102			56.62	0	5.0	2
12 R.	EII				3.175			57.09	0	5.5	3
16 Hd.	EII				3.150			57.52	I	4.9	2
1913											
Nov. 5 Hd.	EI				3.133			58.35	I	4.4	2
6 Fn.	EI				3.137			56.92	0	5.0	2
10 Fn.	WI				3.141			58.56	0	5.0	3½
17 Fn.	WI				3.155			57.80	0	5.0	2
Mean	1913.36		2	3	3.135	+37	25	57.52			
Corr					−0.081			−0.26			

Lacaille 638

1911			h	m	s	°	′	″			
Oct. 18 Fn.	WII		2	4	4.795	−27	59	55.13	0	7.4	4
25 Hd.	WII				4.826			55.65	0	7.0	--
Nov. 2 Fn.	EII				4.786			57.36	0	---	3
3 Hd.	EII				4.779			55.03	0	7.5	3
1915											
Sept. 22 Wy.	EI				4.860			56.16	0	8.0	3½
24 Hd.	EI				4.884			55.03	0	7.5	3½
Oct. 9 Hd.	WI				4.882			54.95	0	7.5	3½
11 Hd.	WI				4.905			56.19	0	7.5	3
Mean	1913.79		2	4	4.840	−27	59	55.69			
Corr					−0.081			0.00			

β Trianguli

		h	m	s	°	′	″			
		2	4	11.088	+34	33	42.95			
1911				s	″		″			
June 20 T.	*EII*			*−0.080*	*−0.29*		*−0.29*	*0*	---	--
27 T.	*WII*			*+0.064*	*+0.10*		*+0.09*	*0*	---	--
28 Fn.	*WII*			*−0.038*	*+0.08*		*+0.07*	*0*	---	--
29 Hd.	*WII*			*−0.036*	*+0.24*		*+0.24*	*0*	---	--
30 T.	*WII*			-----	*+0.57*		*+0.57*	*0*	---	--
July 4 R.	*EII*			*−0.075*	*−0.37*		*−0.38*	*0*	---	--
6 Hd.	*EII*			-----	*−0.05*		*−0.06*	*0*	---	--
10 Hd.	*WII*			-----	*−0.02*		*−0.02*	*0*	---	--
17 Hd.	*EII*			*−0.026*	*−0.12*		*−0.12*	*0*	---	--
24 Hd.	*EII*			*−0.018*	*+0.38*		*+0.38*	*0*	---	--
26 Fn.	*WII*			*−0.033*	----		----	*0*	---	--
28 R.	*WII*			*−0.010*	*+0.54*		*+0.54*	*0*	---	--
30 Fn.	*WII*			*−0.006*	*+0.18*		*+0.18*	*0*	---	--
Aug. 1 R.	*WII*			-----	*+0.01*		*+0.01*	*0*	---	--
Nov. 7 R.	EII			−0.014			----	II	---	1
11 R.	EII			−0.026			----	0	---	2
15 Fn.	EII			+0.026			----	0	---	2½
16 R.	EII			−0.041			----	I	3.9	2
18 R.	EII			−0.006			----	0	3.0	--
19 Fn.	EII			+0.013			+0.22	I	2.6	2
21 Fn.	EII			+0.026			+0.60	I	2.7	3
22 Hd.	EII			+0.006			----	I	2.4	1
30 R.	WII			+0.041			----	I	2.9	3
Dec. 1 R.	WII			+0.014			----	0	---	2
20 Hd.	EII			−0.012			----	0	---	2
1912										
Jan. 13 R.	WII			+0.037			----	II	2.1	2½
15 Fn.	WII			−0.001			+0.29	I	2.6	2
16 R.	WII			+0.012			----	I	2.4	3½
19 Fn.	WII			+0.006			----	I	2.6	--
22 Fn.	WII			+0.053			−0.23	0	---	-
23 R.	EII			−0.008			−0.28	I	2.9	3½
June 7 R.	*EII*			*+0.012*	*+0.18*		*+0.19*	*0*	---	--

1912			s	″	″			
Oct. 1 R.	EII		+0.028		+0.37	I	3.4	1½
2 R.	EII		−0.026		+0.11	II	2.6	1
7 R.	WII		+0.017		+0.69	II	2.6	1½
8 R.	WII		+0.019		+0.39	I	3.4	2
9 R.	WII		+0.033		----	I	2.9	2
14 Fn.	WII		−0.005		+0.30	I	2.6	2
29 R.	EII		−0.039		----	I	3.4	3½
Nov. 1 Fn.	WII		−0.001		−0.03	0	---	2
2 R.	WII		−0.023		----	I	2.9	1½
4 R.	WII		−0.019		+0.47	I	2.9	2½
10 R.	EII		−0.006		+0.53	I	3.4	2½
11 R.	EII		+0.011		+0.46	I	---	5
19 R.	EII		−0.052		----	I	--	3½
20 Fn.	EII		−0.015		----	I	-	2½
21 R.	EII		+0.044		----	I	2.9	2
25 Fn.	WII		−0.049		----	I	2.7	2
26 Hd.	WII		−0.023		----	I	2.7	2
29 Fn.	WII		+0.020		----	I	2.5	2
30 Hd.	WII		−0.006		----	I	2.9	2
Dec. 3 R.	WII		+0.019		----	II	2.6	1½
6 Fn.	WII		−0.020		----	0	---	2
9 Fn.	WII		−0.045		+0.72	I	---	2½
13 Hd.	EII		−0.015		----	I	2.9	3
15 Fn.	EII		+0.013		−0.18	I	2.6	2
19 Hd.	EII		+0.007		−0.15	I	2.9	2
1913								
June 4 Hd.	*WII*		*+0.041*	*−0.11*	*−0.10*	*0*	---	*3*
9 R.	*WII*		*+0.096*	*−0.15*	*−0.15*	*0*	---	--
11 Hd.	*EII*		*+0.056*	*+0.04*	*+0.04*	*0*	---	*2*
15 Hd.	*EII*		-----	*−0.47*	*−0.49*	*0*	---	*3*
17 R.	*EII*		*+0.064*	*+0.56*	*+0.56*	*0*	---	--
29 Hd.	*EII*		*+0.005*	*−0.01*	*−0.03*	*0*	---	*3*
July 1 Hd.	*EII*		-----	*−0.08*	*−0.09*	*0*	---	*3*
2 R.	*EII*		*−0.027*	*+0.48*	*+0.47*	*0*	---	*3½*
10 Hd.	*WII*		*+0.009*	*+0.58*	*+0.58*	*0*	---	*2*
Nov. 12 Hd.	WI		+0.023		----	I	- -	3½
Dec. 9 R.	EI		−0.009		−0.61	II	2.6	2
11 Fn.	EI		−0.001		−0.36	I	2.4	2
12 R.	EI		−0.026		−0.46	I	2.9	5
13 Hd.	EI		+0.008		−0.34	I	3.4	2
15 Fn.	WI		−0.001		+0.32	I	2.9	2½
16 R.	WI		+0.012		+0.02	0	---	3
17 Hd.	WI		+0.006		+0.87	0	---	3
18 Fn.	WI		−0.004		+0.70	I	2.9	2½
19 R.	WI		+0.035		----	II	3.1	2
20 Hd.	WI		+0.019		----	I	2.9	2
22 Fn.	WI		−0.018		----	I	2.9	2½
26 Hd.	WI		+0.013		+0.52	I	2.9	3
27 Wy.	WI		+0.040		−0.54	I	3.4	2
29 Fn.	WI		−0.004		----	I	2.9	1½
1914								
Jan. 2 Hd.	EI		-----		−0.23	0	---	2
5 R.	EI		−0.018		----	I	---	2½
6 Fn.	EI		−0.018		----	I	2.9	2
7 Hd.	EI		−0.016		----	I	2.9	2
8 R.	EI		−0.037		----	I	- -	--
10 Hd.	EI		−0.020		----	I	- -	3
12 R.	EI		−0.046		----	II	---	-
14 Hd.	EI		−0.008		----	I	2.9	2
20 Fn.	WI		−0.010		+0.15	0	--	3
22 Hd.	WI		+0.040		----	I	2.9	2
23 Fn.	WI		+0.011		----	0	---	3
25 Fn.	WI		+0.014		----	I	---	2
June 1 Fn.	*EI*		*−0.030*	*+0.37*	*+0.38*	*0*	---	*3*
5 Wy.	*EI*		*+0.089*	*[−2.16]*[1]	*[−2.15]*[1]	*0*	---	*3½*
12 Wy.	*EI*		*−0.008*	*+0.28*	*+0.29*	*0*	---	*3½*
15 Hd.	*EI*		*+0.074*	*−0.06*	*−0.05*	*0*	---	*3*
16 Wy.	*EI*		*+0.020*	*+1.06*	*+1.05*	*0*	- -	*3½*
17 Fn.	*EI*		-----	*+0.71*	*+0.69*	*0*	---	*3½*
19 Wy.	*WI*		*−0.054*	*+0.05*	*+0.06*	*0*	--	*3½*
23 Wy.	*WI*		*−0.047*	*+0.07*	*+0.07*	*0*	---	*3*
28 Fn.	*WI*		*+0.049*	*−0.51*	*−0.53*	*0*	---	*3½*
29 Hd.	*WI*		*0.000*	*+0.47*	*+0.47*	*0*	--	*3*
July 2 Hd.	*WI*		*+0.046*	*+0.50*	*+0.50*	*0*	---	*3*
Oct. 28 An.	EI		0.000		----	0	---	--
30 Hd.	EI		−0.009		−0.32	I	2.8	2½
31 An.	EI		0.000		+0.08	II	3.1	2½

[1] Observed declination poor.

				s	″	″				
1914										
Nov.	2	Fn.	WI	+0.020		----	I	2	9	2
	3	An.	WI	+0.017		+1.06	I	---		3
	4	Hd.	WI	−0.007		----	I	2	9	2
	5	Fn.	WI	+0.020		+0.50	I	2	9	2
	6	Wy.	WI	−0.036		+0.71	II	3	1	2
	9	Hd.	WI	+0.004		+0.53	II	3	1	2
	10	Fn.	WI	−0.015		+0.67	0	---		2½
	11	An.	WI	−0.039		+0.67	I	3	9	2½
	13	Fn.	WI	+0.012		----	I	---		4
	17	Wy.	EI	+0.004		----	II	2	6	2
	18	Fn.	EI	+0.062		−0.18	0	---		1½
	19	Hd.	EI	+0.013		----	I	2	9	2
	21	Fn.	EI	+0.024		----	I	2	9	3
	24	Hd.	EI	−0.007		----	I	---		2
	26	Wy.	EI	+0.017		----	I	3	9	3
Dec.	3	Fn.	WI	−0.007		----	I	2	9	2
	14	Fn.	WI	−0.019		----	I	2	9	2½
	16	An.	WI	−0.038		----	I	1	9	2
	17	Fn.	WI	−0.034		----	I	2	9	2
	18	Hd.	WI	−0.019		----	I	3	4	2
	21	Fn.	WI	−0.042		+0.22	I	2	9	3
	22	Wy.	WI	−0.037		----	I	3	4	2½
	23	Hd.	WI	−0.043		+0.40	I	3	4	2
	30	An.	EI	−0.057		----	0	---		3½
	31	Fn.	EI	+0.077		----	I	---		2½
1915										
Jan.	4	Hd.	EI	+0.039		----	I	2	9	2
	5	Wy.	EI	+0.050		----	I	2	9	2
	8	Wy.	EI	+0.025		----	0	---		3
	9	An.	EI	−0.013		+0.53	II	3	6	2
	13	An.	WI	−0.048		+0.29	II	3	6	2
May	*22*	*Wy.*	*WI*	*+0.021*	*−0.14*	*−0.12*	*0*	---		*3½*
	26	*Wy.*	*WI*	*+0.039*	*−0.03*	*−0.02*	*0*	---		*3½*
	30	*Wy.*	*WI*	*+0.079*	*+1.10*	*+1.11*	*0*	---		*4*
June	*7*	*Hd.*	*EI*	*−0.042*	*−0.26*	*−0.25*	*0*	---		*2½*
	8	*An.*	*EI*	*+0.011*	*−0.02*	*−0.02*	*0*	---		*3*
	9	*Fn.*	*EI*	*−0.016*	*−0.67*	*−0.67*	*0*	---		*3½*
	10	*Hd.*	*WI*	-----	*+0.40*	*+0.36*	*0*	---		*3*
	11	*An.*	*WI*	*+0.095*	*0.00*	*+0.01*	*0*	---		*3*
	15	*Wy.*	*WI*	-----	*+0.19*	*+0.19*	*0*	---		*3½*
	17	*Hd.*	*WI*	*−0.028*	*−0.14*	*−0.15*	*0*	---		*3*
	23	*Fn.*	*EI*	*+0.071*	----	----	*0*	---		*3½*
	24	*Wy.*	*EI*	*+0.047*	*+0.17*	*+0.14*	*0*	---		*3*
	27	*Wy.*	*EI*	*+0.052*	*−0.07*	*−0.09*	*0*	---		*3½*
	28	*Hd.*	*EI*	*+0.042*	*−0.03*	*−0.05*	*0*	---		*3*
July	*2*	*An.*	*WI*	-----	*+0.55*	*+0.54*	*0*	---		*3*
	6	*An.*	*WI*	-----	*+0.70*	*+0.68*	*0*	---		*3*
Oct.	22	Hd.	WI	−0.042		----	I	3	4	3
Nov.	5	Wy.	EI	+0.032		+0.12	I	3	4	2
	17	Wy.	WI	−0.012		+1.12	I	3	4	2½
	19	Fn.	EI	+0.037		−0.38	0	---		3
	22	Fn.	EI	+0.007		+0.09	0	---		2
	24	Hd.	EI	+0.002		+0.14	II	3	1	2
	26	Wy.	EI	+0.009		----	I	---		3½
	29	Hd.	EI	+0.066		−0.27	I	2	9	3
	30	Fn.	EI	+0.038		−0.06	I	2	9	2½
Dec.	2	Wy.	EI	+0.017		+0.16	I	3	9	3
	3	Fn.	EI	+0.012		−0.29	0	---		2
	6	Fn.	WI	−0.008		+0.43	I	2	9	2½
	10	Wy.	WI	−0.031		+1.27	I	3	4	2
	15	Fn.	WI	−0.014		----	I	---		3
	27	Wy.	WI	−0.025		+0.36	I	3	9	3½
1916										
Jan.	14	Wy.	EI	+0.002		+0.22	I	3	9	3
1918										
Feb.	*26*	*Hd.*	*EII*	*+0.042*	----	----	*0*	---		*3*
Mean		1913.98		0.000		+0.23				
		1914.22								
Corr				−0.081		−0.26				

15 Arietis

				h	m	s	°	′	″			
1912												
Sept.	30	R.	EII	2	5	38.087	+19	4	34.48	0	5	5 3
Oct.	4	R.	EII			38.116			34.50	0	6	0 1
	5	R.	EII			38.142			34.70	I	5	4 1½
	9	R.	WII			38.150			33.74	I	---	2
1912												
Oct.	16	Fn.	WII			38.123			33.95	0	---	2
1913												
Dec.	30	Wy.	WI			38.128			34.53	0	6.0	2½
1914												
Jan.	5	R.	EI			38.170			33.54	0	5.5	2
	7	Hd.	EI			38.138			34.33	0	6.0	3
	22	Hd.	WI			38.175			34.36	0	6.0	2
	25	Fn.	WI			38.128			34.42	0	6.0	2
Mean		1913.40		2	5	38.136	+19	4	34.26			
Corr						−0.081			−0.23			

Weisse$_1$ II 33

				h	m	s	°	′	″			
1911												
Dec.	6	Hd.	WII	2	6	24.082	−13	21	3.37	0	7.2	-
	7	Hd.	WII			24.008			2.92	0	7.0	--
1912												
Jan.	4	Fn.	EII			23.965			3.33	0	---	4
	10	Hd.	EII			23.988			3.57	0	---	4
1915												
Oct.	27	Fn.	WI			24.011			3.13	0	7.5	3
	28	Wy.	EI			24.007			3.12	0	7.5	3
Nov.	1	Hd.	EI			24.055			4.03	0	7.5	3½
	9	Hd.	WI			23.997			3.06	0	7.5	3
Mean		1913.90		2	6	24.014	−13	21	3.32			
Corr						−0.081			−0.12			

Bradley 302

				h	m	s	°	′	″			
1912												
Nov.	18	Fn.	EII	2	6	35.845	+8	8	55.96	0	6.1	1½
	20	Fn.	EII			35.847			55.49	0	6.1	--
	25	Fn.	WII			35.915			54.95	0	6.5	3½
	26	Hd.	WII			35.888			54.95	0	6.0	3
1914												
Jan.	8	R.	EI			35.904			54.54	0	6.5	3
	10	Hd.	EI			35.904			55.27	0	6.0	3
Nov.	23	Fn.	EI			35.886			54.65	0	---	--
	26	Wy.	EI			35.909			55.21	0	6.5	3½
Dec.	3	Fn.	WI			35.845			55.12	0	6.0	2½
	16	An.	WI			35.904			55.24	0	6.5	2½
Mean		1913.93		2	6	35.885	+8	8	55.14			
Corr						−0.081			−0.20			

Bradley 301 *pr.*

				h	m	s	°	′	″			
1914												
Nov.	24	Hd.	EI	2	7	8.707	+29	52	53.31	0	---	3
Dec.	12	An.	WI			8.760			53.47	I	5.4	2½
	17	Fn.	WI			8.667			54.91	I	4.4	2
	31	Fn.	EI			8.733			53.50	0	---	2½
Mean		1914.95		2	7	8.717	+29	52	53.80			
Corr						−0.081			−0.25			

Bradley 301 *mean*

				h	m	s	°	′	″			
1911												
Nov.	11	R.	EII	2	7	8.733	+29	52	53.99	0	---	1
	16	R.	EII			8.863			54.70	0	---	3
	30	R.	WII			8.905			54.55	0	---	4
Dec.	1	R.	WII			8.837			54.80	0	---	2
1914												
Nov.	13	Fn.	WI			8.693			55.08	0	---	4
	19	Hd.	EI			8.900			53.82	I	4.9	3
	21	Fn.	EI			8.737			-----	I	4.9	3
Mean		1913.17		2	7	8.810	+29	52	54.49			
		1912.89										
Corr						−0.081			−0.25			

55 Cassiopeiæ

			h m s	° ′ ″			
			2 7 24.279	+66 6 11.17			
1912							
Nov. 22	Fn.	EII	−0.07	+0.33	0	6.3	2
29	Fn.	WII	−0.04	−0.01	0	---	2
30	Hd.	WII	+0.04	+0.18	0	6.0	2
Dec. 12	R.	EII	−0.02	−0.22	0	---	2
1913			s	″			
Nov. 22	Hd.	WI	+0.01	+0.23	0	6.0	2
24	Fn.	WI	+0.20	+1.75	0	6.0	2½
Dec. 4	Fn.	EI	−0.05	+0.13	0	6.0	2½
5	Fn.	EI	−0.06	0.00	0	6.0	2½
Mean------	1913.42		+0.001	+0.30			
Corr------			−0.081	−0.33			

55 Cassiopeiæ s. p.

			h m s	° ′ ″			
			2 7 24.279	+66 6 11.17			
1913							
Mar. 18	R.	WII	+0.19	−0.46	0	6.5	2½
20	R.	WII	−0.01	−0.22	0	---	3
28	Fn.	EII	+0.03	−0.49	0	6.8	2
31	Fn.	EII	+0.16	−1.50	0	---	4½
1914							
Mar. 26	Hd.	EI	+0.04	−1.25	0	6.5	4
Apr. 10	Wy.	WI	−0.12	−0.71	0	7.5	4½
13	Fn.	EI	−0.05	−0.55	0	7.0	3½
May 2	Fn.	WI	----	−1.27	0	7.5	3½
16	Fn.	WI	+0.06	−0.13	0	7.0	3
Mean------	1913.76		+0.038	−0.73			
	1913.82						
Corr------			−0.081	+0.71			

Bradley 300

			h m s	° ′ ″			
1911							
Oct. 26	Fn.	WII	2 7 34.238	+43 48 35.68	0	---	--
Nov. 7	R.	EII	34.342	35.81	I	---	1
10	Hd.	EII	34.257	35.20	0	5.2	--
25	Hd.	WII	34.274	35.78	0	5.5	--
1915							
Oct. 22	Hd.	WI	34.258	35.29	0	5.5	3
23	Wy.	WI	34.283	36.29	I	4.4	2½
29	Hd.	EI	34.296	35.69	I	4.4	3
30	Fn.	EI	34.296	35.74	0	5.0	2½
Mean------	1913.84		2 7 34.280	+43 48 35.68			
Corr------			−0.081	−0.28			

6 Persei

			h m s	° ′ ″			
			2 7 36.895	+50 38 52.71			
1912							
Dec. 3	R.	WII	−0.077	−0.01	0	6.5	1½
6	Fn.	WII	−0.019	−0.04	0	6.6	2
13	Hd.	EII	−0.020	+0.04	0	5.5	3
14	R.	EII	+0.018	+0.37	0	6.0	2
1914							
Jan. 12	R.	EI	−0.022	+0.38	0	6.0	2
13	Wy.	EI	+0.046	−0.20	0	---	--
26	R.	WI	+0.026	+1.24	0	---	-
Oct. 21	An.	EI	−0.029	+0.39	I	5.4	2½
23	Fn.	EI	+0.048	+0.09	0	5.5	2
28	An.	EI	+0.025	+0.41	0	6.0	3
Nov. 2	Fn.	WI	−0.003	+1.10	0	5.5	2
4	Hd.	WI	−0.037	+0.51	0	6.0	2½
Mean------	1914.00		−0.004	+0.36			
Corr------			−0.081	−0.29			

ξ¹ Ceti

			h m s	° ′ ″			
			2 8 13.669	+8 25 29.29			
1912							
Nov. 2	R.	WII	+0.040	+1.29	I	4.4	2
5	Fn.	WII	+0.007	+0.72	0	5.0	1½
12	R.	EII	+0.039	+0.27	I	4.4	2½
16	Hd.	EII	+0.065	+1.03	I	4.4	--
1913							
Nov. 4	R.	EI	−0.009	+0.40	I	3.9	2½
5	Hd.	EI	+0.091	+1.33	I	3.9	2
20	Fn.	WI	+0.031	+1.33	0	5.0	--
21	R.	WI	+0.033	+1.38	I	3.4	1½
Mean------	1913.36		+0.037	+0.97			
Corr------			−0.081	−0.20			

μ Fornacis

			h m s	° ′ ″			
			2 8 56.429	−31 8 45.60			
1911							
Oct. 18	Fn.	WII	+0.328	+0.60	0	5.3	4
23	R.	WII	+0.330	+0.65	0	5.5	4
25	Hd.	WII	+0.337	+1.29	0	5.5	2½
Nov. 2	Fn.	EII	+0.232	+1.03	0	---	--
3	Hd.	EII	+0.294	+1.08	0	5.5	3
1915							
Sept. 28	Hd.	EI	+0.407	+0.73	0	6.0	4
29	Fn.	EI	+0.389	+1.58	0	6.0	3½
Oct. 12	Fn.	WI	+0.346	+0.55	0	6.0	3½
21	Fn.	WI	+0.338	+0.79	0	6.0	3½
Mean------	1913.57		+0.333	+0.92			
Corr------			−0.081	+0.05			

Bradley 315

			h m s	° ′ ″			
1912							
Sept. 30	R.	EII	2 10 36.189	+24 37 35.00	0	5.5	3
Oct. 1	R.	EII	36.195	34.72	I	4.9	1
7	R.	WII	36.217	34.86	0	6.0	2½
8	R.	WII	36.212	34.83	0	6.0	2
1913							
Nov. 6	Fn.	EI	36.182	34.43	0	6.0	2½
10	Fn.	WI	36.212	35.49	0	6.5	3½
17	Fn.	WI	36.195	34.64	0	6.0	2
Dec. 3	Hd.	EI	36.168	34.61	0	6.0	2
Mean------	1913.32		2 10 36.196	+24 37 34.82			
Corr------			−0.081	−0.24			

δ Trianguli

			h m s	° ′ ″			
1911							
Nov. 18	R.	EII	2 11 33.559	+33 48 44.42	0	5.5	3½
19	Fn.	EII	33.583	45.53	0	5.0	2
Dec. 5	Hd.	WII	33.597	45.99	0	5.0	--
6	Hd.	WII	33.544	45.50	I	4.4	1
1914							
Nov. 10	Fn.	WI	33.836	45.75	0	---	3
11	An.	WI	33.811	45.06	0	6.0	2½
19	Hd.	EI	33.879	45.10	I	4.4	2
21	Fn.	EI	33.852	45.81	0	5.0	2½
Mean------	1913.39		2 11 33.708	+33 48 45.40			
Corr------			−0.081	−0.26			

γ Trianguli

			h m s	° ′ ″			
			2 11 57.606	+33 25 52.74			
1912							
Oct. 5	R.	EII	−0.001	+0.66	I	3.9	2
9	R.	WII	+0.005	−0.05	I	3.9	1½
10	R.	WII	+0.018	−0.03	I	4.4	1
27	R.	EII	−0.027	−0.10	I	3.1	1½
1913							
Dec. 26	Hd.	WI	0.000	+0.56	I	3.9	3

				s	″			
1914								
Jan. 5	R.	EI		−0.027	−0.08	I	3.4	2
7	Hd.	EI		−0.055	+0.17	I	3.9	2
22	Hd.	WI		+0.028	+0.46	I	4.4	2
Nov. 26	Wy.	EI		−0.014	----	I	4.4	3
Dec. 21	Fn.	WI		−0.009	----	0	---	3
1915								
Jan. 8	Wy.	EI		+0.024	+0.11	0	---	2½
14	Hd.	WI		+0.016	----	I	3.9	3
Nov. 19	Fn.	EI		+0.029	----	I	4.4	3
Dec. 6	Fn.	WI		−0.023	----	0	4.5	2½
10	Wy.	WI		−0.005	----	I	3.9	2
27	Wy.	WI		−0.002	+0.27	I	---	3½
1917								
Jan. 16	Hd.	EI		−0.059	----	I	3.9	3
1918								
Jan. 19	Wy.	WII		0.000	+0.38	I	3.4	2
Feb. 8	Wy.	WII		+0.011	----	0	---	3
26	Hd.	EII		+0.097	----	0	---	3
Mean------		1915.11		0.000	+0.21			
		1914.21						
Corr-------				−0.081	−0.26			

B. D.+56° 498

				h m	s	° ′	″			
1913										
Dec. 19	R.	WI		2 12	-----	+56 35	38.93	0	8.0	2
20	Hd.	WI			-----		38.55	0	---	2
29	Fn.	WI			-----		39.26	0	---	1½
1914										
Jan. 11	Hd.	EI			-----		38.47	0	---	3
14	Hd.	EI			-----		38.19	0	---	1
1915										
Nov. 10	Fn.	WI			-----		38.33	0	---	2½
16	Fn.	WI			-----		38.31	0	8.5	2
17	Wy.	WI			-----		38.28	0	8.5	2½
21	Hd.–Wy.	EI			-----		37.88	0	---	3½
24	Hd.	EI			-----		38.94	0	---	2
30	Fn.	EI			-----		38.29	0	---	2½
Mean------		1915.03		2 12	-----	+56 35	38.49			
Corr-------					-----		−0.31			

67 Ceti

				h m	s	° ′	″			
				2 12	29.618	−6 50	12.12			
1911										
Nov. 15	Fn.	EII			+0.085		−0.48	0	---	--
16	R.	EII			+0.076		+0.86	0	6.5	3
Dec. 2	R.	WII			+0.055		+0.32	0	5.5	4
4	Hd.	WII			+0.059		+0.25	0	6.0	3
1914										
Nov. 5	Fn.	WI			+0.106		+0.87	0	6.0	2½
6	Wy.	WI			+0.092		−0.28	I	5.4	3
9	Hd.	WI			+0.064		+0.14	0	6.0	2
Dec. 30	An.	EI			+0.054		−0.32	0	---	3½
1915										
Jan. 4	Hd.	EI			+0.041		+0.07	0	6.0	2½
Mean------		1913.57			+0.070		+0.16			
Corr-------					−0.081		−0.15			

θ Arietis

				h m	s	° ′	″			
1912										
Oct. 16	Fn.	WII		2 13	6.976	+19 29	7.16	0	5.5	2
28	Fn.	EII			7.052		6.55	0	6.7	3
Nov. 1	Fn.	WII			7.030		5.91	0	6.2	3½
12	R.	EII			7.040		6.58	0	6.0	2½
1913										
Nov. 24	Fn.	WI			7.057		8.00	0	6.0	2½
Dec. 4	Fn.	EI			6.996		6.30	0	6.0	2½
5	Fn.	EI			7.003		6.25	0	6.0	3
18	Fn.	WI			7.053		6.68	0	6.5	2
Mean------		1913.38		2 13	7.026	+19 29	6.68			
Corr-------					−0.081		−0.23			

Weisse$_1$ II 144

				h m	s	° ′	″			
1911										
Nov. 7	R.	EII		2 13	13.731	+13 0	50.95	0	---	1½
10	Hd.	EII			13.692		51.22	0	7.5	2½
25	Hd.	WII			13.675		52.25	0	7.5	--
30	R.	WII			13.704		51.49	0	8.0	4
1914										
Oct. 30	Hd.	EI			13.676		52.85	0	7.5	3
31	An.	EI			13.652		51.69	0	7.5	2½
Nov. 2	Fn.	WI			13.733		50.50	0	7.5	2
4	Hd.	WI			13.697		51.65	0	8.0	3
Mean------		1913.36		2 13	13.695	+13 0	51.58			
Corr-------					−0.081		−0.22			

Piazzi II 52

				h m	s	° ′	″			
1912										
Nov. 2	R.	WII		2 13	20.937	+1 19	58.75	0	6.0	2
4	R.	WII			20.945		57.79	0	6.0	3
16	Hd.	EII			20.943		58.86	0	6.0	--
18	Fn.	EII			20.920		58.82	0	5.8	1½
1913										
Nov. 21	R.	WI			20.929		59.21	0	5.5	2
22	Hd.	WI			20.884		58.75	0	6.0	2½
Dec. 9	R.	EI			20.976		58.44	0	5.5	2
11	Fn.	EI			------		58.84	0	5.5	3
13	Hd.	EI			20.962		58.69	0	6.0	3
Mean------		1913.39		2 13	20.937	+1 19	58.68			
		1913.45								
Corr-------					−0.081		−0.18			

Bradley 319

				h m	s	° ′	″			
1912										
Nov. 5	Fn.	WII		2 13	27.942	+46 57	55.39	0	---	3
9	Fn.	WII			27.939		54.83	0	5.1	2½
19	R.	EII			27.961		-----	0	---	5
20	Fn.	EII			27.997		54.87	0	5.3	2
1914										
Jan. 8	R.	EI			27.932		54.26	0	---	2½
10	Hd.	EI			27.981		55.06	0	6.0	3
21	Hd.	WI			27.961		54.59	0	5.5	3½
23	Fn.	WI			28.004		55.00	0	---	3
Mean------		1913.46		2 13	27.965	+46 57	54.86			
		1913.54								
Corr-------					−0.081		−0.28			

B. D.+56° 543

				h m	s	° ′	″			
1913										
Dec. 19	R.	WI		2 13	-----	+56 54	14.25	0	8.0	2
20	Hd.	WI			-----		13.66	0	---	2
29	Fn.	WI			-----		14.12	0	---	1½
1914										
Jan. 11	Hd.	EI			-----		13.71	0	---	3
14	Hd.	EI			-----		13.41	0	---	1
1915										
Nov. 10	Fn.	WI			-----		14.43	0	---	2½
16	Fn.	WI			-----		14.13	0	8.5	2
17	Wy.	WI			-----		14.49	0	8.5	2½
21	Hd.–Wy.	EI			-----		13.31	0	---	3½
24	Hd.	EI			-----		13.86	0	---	2
30	Fn.	EI			-----		13.43	0	---	2½
Mean------		1915.03		2 13	-----	+56 54	13.89			
Corr-------					-----		−0.31			

o Ceti

				h m	s	° ′	″			
				2 14	47.948	−3 23	9.68			
1911										
Oct. 23	R.	WII			−0.026		−0.32	0	7.5	2
24	Fn.	WII			+0.002		−0.41	0	7.4	3

				s	″			
1911								
Nov.	2	Fn.	EII	−0.027	−0.63	0	7.6	2½
	3	Hd.	EII	+0.007	+0.07	0	6.5	2
1914								
Nov.	17	Wy.	EI	+0.062	−0.46	0	7.5	3
Dec.	12	An.	WI	+0.025	−0.74	0	---	3
	16	An.	WI	+0.030	−0.41	0	8.0	2½
1915								
Jan.	4	Hd.	EI	+0.003	−0.29	I	3.9	2½
Mean		1913.39		+0.009	−0.40			
Corr				−0.081	−0.17			

Bradley 335

				h	m	s	°	′	″			
1912												
Sept.	30	R.	EII	2	17	37.234	−1	17	40.22	0	5.5	4
Oct.	1	R.	EII			37.222			39.83	0	6.0	3½
	7	R.	WII			37.233			39.55	0	6.0	2
	8	R.	WII			37.217			39.41	0	6.5	2
1913												
Nov.	17	Fn.	WI			37.230			39.29	0	6.0	2
	20	Fn.	WI			37.244			39.26	0	5.7	3
Dec.	3	Hd.	EI			37.244			39.27	0	6.0	3
	5	Fn.	EI			37.254			39.59	0	5.5	3
Mean		1913.33		2	17	37.235	−1	17	39.55			
Corr						−0.081			−0.18			

Lalande 4410

				h	m	s	°	′	″			
1911												
Oct.	16	Fn.	WII	2	17	50.568	−18	4	19.30	0	---	--
	18	Fn.	WII			50.605			16.62	0	6.2	3½
Nov.	16	R.	EII			50.558			17.02	0	---	3
	18	R.	EII			50.607			17.07	0	6.0	3
1914												
Nov.	11	An.	WI			50.585			17.21	0	7.0	3½
	19	Hd.	EI			50.564			16.38	0	6.0	3
	21	Fn.	EI			50.570			17.40	0	6.0	3½
Dec.	17	Fn.	WI			50.649			17.64	0	6.0	2½
Mean		1913.37		2	17	50.588	−18	4	17.33			
Corr						−0.081			−0.09			

κ Fornacis

				h	m	s	°	′	″			
				2	18	25.478	−24	13	30.46			
1912												
Oct.	5	R.	EII			+0.090			+0.55	0	5.5	4
	9	R.	WII			+0.068			−0.79	0	---	4
	10	R.	WII			+0.060			−0.78	0	6.0	3
Nov.	16	Hd.	EII			+0.094			+0.37	0	6.0	3
1913												
Nov.	21	R.	WI			+0.033			+0.85	0	5.5	2½
	22	Hd.	WI			+0.022			+0.53	0	6.0	3½
Dec.	4	Fn.	EI			+0.098			+0.64	0	5.5	3½
	9	R.	EI			+0.113			+0.11	0	5.5	2½
Mean		1913.36				+0.072			+0.18			
Corr						−0.081			−0.04			

B. D. +38° 472

				h	m	s	°	′	″			
1916												
Dec.	26	Fn.	WI	2	18	-----	+38	56	16.45	0	7.5	2½
	28	Fn.	WI			-----			14.71	0	7.5	3
1917												
Jan.	8	Wy.	EI			-----			15.24	0	7.0	2
	9	Fn.	EI			-----			15.32	0	---	3
Mean		1917.00		2	18	-----	+38	56	15.43			
Corr						-----			−0.27			

Lacaille 726

				h	m	s	°	′	″			
1911												
Oct.	24	Fn.	WII	2	20	17.543	−26	15	18.37	0	6.8	3
	25	Hd.	WII			17.570			19.68	0	6.8	2
Nov.	2	Fn.	EII			17.544			19.44	0	---	--
	3	Hd.	EII			17.526			20.05	0	6.2	2
1914												
Oct.	21	An.	EI			17.580			20.65	0	7.0	3½
	23	Fn.	EI			17.500			19.77	0	6.5	3
Nov.	2	Fn.	WI			17.567			19.92	0	7.0	3½
	3	An.	WI			17.558			20.08	0	7.0	4
Mean		1913.32		2	20	17.548	−26	15	19.74			
Corr						−0.081			−0.02			

ρ Ceti

				h	m	s	°	′	″			
1912												
Oct.	14	Fn.	WII	2	21	36.138	−12	41	45.86	0	5.4	3½
	16	Fn.	WII			36.139			46.59	0	5.0	2
	26	R.	EII			36.152			45.31	I	4.4	3
	27	R.	EII			36.176			45.73	I	4.9	3
1913												
Nov.	24	Fn.	WI			36.089			45.89	0	5.0	3½
Dec.	13	Hd.	EI			36.141			46.25	0	5.5	3
	15	Fn.	WI			36.123			46.00	0	5.0	2½
1914												
Jan.	5	R.	EI			36.130			46.93	II	5.5	2½
Mean		1913.38		2	21	36.136	−12	41	46.07			
Corr						−0.081			−0.12			

ι Cassiopeiæ[1]

				h	m	s	°	′	″			
				2	21	38.202	+66	59	54.19			
1911												
Nov.	21	Fn.	EII			−0.02			+0.35	0	4.9	2½
	22	Hd.	EII			+0.02			−0.12	I	3.9	--
	25	Hd.	WII			−0.14			+0.89	I	3.9	3
	30	R.	WII			−0.17			+1.11	I	4.9	3½
1914												
Oct.	31	An.	EI			−0.15			+0.56	I	4.9	3
Nov.	5	Fn.	WI			−0.16			+1.20	0	5.0	2
	6	Wy.	WI			−0.02			+0.29	I	4.4	2
	17	Wy.	EI			−0.12			+0.93	I	3.9	2½
Mean		1913.38				−0.095			+0.65			
Corr						−0.081			−0.33			

ι Cassiopeiæ s. p.

				h	m	s	°	′	″			
				2	21	38.202	+66	59	54.19			
1913												
Feb.	8	R.	WII			−0.15			−0.55	0	---	2½
Mar.	11	R.	EII			−0.25			−1.59	0	6.0	2½
	18	R.	WII			−0.02			−0.34	0	---	3
	28	Fn.	EII			0.00			−0.41	0	5.5	2½
1914												
Mar.	24	Fn.	EI			−0.10			+0.16	0	5.5	3½
	26	Hd.	EI			−0.16			−0.59	0	5.5	4
Apr.	6	Fn.	WI			−0.13			+0.42	0	6.0	4
	9	Fn.	WI			−0.26			−1.33	0	5.0	3½
Mean		1913.72				−0.134			−0.53			
Corr						−0.081			+0.68			

Lalande 4552

				h	m	s	°	′	″			
1911												
Nov.	18	R.	EII	2	22	24.230	−20	26	60.26	0	6.0	4
	19	Fn.	EII			24.233			59.53	0	6.2	2½
Dec.	2	R.	WII			24.302			60.58	0	7.0	3
	4	Hd.	WII			24.208			59.86	0	6.0	--

[1] Triple; mean of close pair observed.

			h m s	° ′ ″			
1914							
Oct. 28	An.	EI	24.210		60.21	0	6.0 4
30	Hd.	EI	24.287		60.69	0	6.5 3½
Nov. 4	Hd.	WI	24.249		59.54	0	6.5 3½
9	Hd.	WI	24.340		60.09	0	6.0 3
Mean	1913.37		2 22 24.257	−20 27	0.10		
Corr			−0.081		−0.08		

Bradley 342

			h m s	° ′ ″			
1912							
Sept. 30	R.	EII	2 22 53.178	+29 16	4.67	0	5.5 3
Oct. 1	R.	EII	53.161		4.60	I	4.9 2½
7	R.	WII	53.215		4.91	0	6.0 2
8	R.	WII	53.166		5.10	0	6.0 1½
1913							
Nov. 17	Fn.	WI	53.163		4.80	0	5.5 2
20	Fn.	WI	53.228		4.64	0	5.7 3
Dec. 3	Hd.	EI	53.166		4.97	0	6.0 2
4	Fn.	EI	------		4.61	0	5.5 2
9	R.	EI	53.191		4.21	0	5.5 2½
Mean	1913.33		2 22 53.184	+29 16	4.72		
	1913.40						
Corr			−0.081		−0.25		

ξ^2 Ceti

			h m s	° ′ ″			
			2 23 22.323	+8 3	25.54		
1911							
Oct. 16	Fn.	WII	+0.069		+0.26	0	--- 2
18	Fn.	WII	+0.038		−0.54	I	3.9 2½
Nov. 13	Fn.	EII	+0.065		−0.93	0	--- 2
15	Fn.	EII	+0.033		−0.70	0	4.8 2½
1914							
Nov. 11	An.	WI	+0.008		+0.66	I	4.4 3
13	Fn.	WI	+0.016		+0.50	0	--- 4
19	Hd.	EI	+0.046		−0.32	I	3.9 3
24	Hd.	EI	+0.020		−0.53	0	--- 3
Mean	1913.36		+0.037		−0.20		
Corr			−0.081		−0.20		

B. D.+38° 491

			h m s	° ′ ″			
1916							
Dec. 7	Fn.	EI	2 24 -----	+38 44	10.35	0	7.0 2½
26	Fn.	WI	-----		9.45	0	7.0 2½
28	Fn.	WI	-----		9.25	0	7.0 3
1917							
Jan. 8	Wy.	EI	-----		9.95	0	7.5 2
Mean	1916.98		2 24 -----	+38 44	9.75		
Corr			-----		−0.27		

Weisse$_1$ II 358

			h m s	° ′ ″			
1912							
Oct. 5	R.	EII	2 24 46.907	+9 9	51.58	0	5.5 2
9	R.	WII	46.913		51.41	0	7.0 2
10	R.	WII	46.904		51.43	0	6.5 1½
25	Fn.	EII	46.918		52.12	0	6.2 1½
1913							
Nov. 21	R.	WI	46.887		51.88	0	5.5 2
22	Hd.	WI	46.903		51.56	0	6.2 2
Dec. 5	Fn.	EI	46.922		51.14	0	6.5 3½
11	R.	EI	46.926		51.19	0	--- 5
Mean	1913.35		2 24 46.910	+9 9	51.54		
Corr			−0.081		−0.21		

Bradley 349

			h m s	° ′ ″			
1911							
Oct. 25	Hd.	WII	2 25 35.480	+19 27	22.30	0	5.8 -
Nov. 7	R.	EII	35.488		21.41	0	5.5 2
1911							
Nov. 10	Hd.	EII	35.466		21.92	0	6.0 --
Dec. 5	Hd.	WII	35.444		22.13	0	6.5 2
1914							
Nov. 6	Wy.	WI	35.486		22.23	0	5.5 2½
10	Fn.	WI	35.467		22.38	0	--- 3½
21	Fn.	EI	35.496		22.42	0	6.5 3
23	Fn.	EI	35.481		20.98	0	6.0 2
Mean	1913.37		2 25 35.476	+19 27	21.97		
Corr			−0.081		−0.23		

Bradley 350

			h m s	° ′ ″			
1912							
Nov. 5	Fn.	WII	2 26 36.307	+35 44	55.20	0	--- 3
9	Fn.	WII	36.377		54.55	0	5.4 2½
12	R.	EII	36.338		55.27	I	4.4 3
16	Hd.	EII	36.378		55.34	I	4.9 2
1913							
Dec. 18	Fn.	WI	36.372		54.43	0	5.5 2
19	R.	WI	36.393		55.02	I	4.9 2
1914							
Jan. 6	Fn.	EI	36.387		54.68	0	5.5 2
7	Hd.	EI	36.340		54.84	0	6.0 2
Mean	1913.43		2 26 36.362	+35 44	54.92		
Corr			−0.081		−0.26		

B. D.+38° 500

			h m s	° ′ ″			
1916							
Dec. 29	Hd.	WI	2 26 -----	+38 58	18.68	0	8.0 2
1917							
Jan. 2	Wy.	WI	-----		18.69	0	8.0 2½
9	Fn.	EI	-----		17.70	0	8.5 3
19	Hd.	EI	-----		18.37	0	7.5 2
Mean	1917.02		2 26 -----	+38 58	18.36		
Corr			-----		−0.27		

σ Ceti

			h m s	° ′ ″			
			2 27 49.205	−15 38	21.15		
1911							
Nov. 18	R.	EII	+0.130		−1.43	0	5.0 3½
19	Fn.	EII	+0.057		−1.18	0	5.0 2½
25	Hd.	WII	+0.093		−0.90	0	5.5 --
30	R.	WII	+0.094		−1.18	I	4.4 4
1914							
Oct. 21	An.	EI	+0.177		−1.47	I	5.4 3½
28	An.	EI	+0.097		−1.47	0	--- 4
Nov. 2	Fn.	WI	+0.080		−0.97	0	5.5 3
3	An.	WI	+0.084		−0.95	0	6.0 3½
Mean	1913.36		+0.102		−1.19		
Corr			−0.081		−0.11		

B. D.+11° 354

			h m s	° ′ ″			
1918							
Jan. 19	Wy.	WII	2 29 10.361	+11 47	11.06	0	7.5 2½
21	Fn.	WII	10.405		9.18	0	7.5 2
Mean	1918.06		2 29 10.383	+11 47	10.12		
Corr			−0.081		−0.21		

36 H. Cassiopeiæ

			h m s	° ′ ″			
			2 29 27.164	+72 25	31.23		
1911							
Oct. 16	Fn.	WII	+0.11		+0.52	0	6.0 --
18	Fn.	WII	+0.14		+0.55	0	5.0 2½
Nov. 2	Fn.	EII	+0.08		−0.15	0	5.2 --
3	Hd.	EII	−0.06		+0.22	0	5.5 --
1914							
Nov. 11	An.	WI	−0.06		+0.96	0	5.5 3

1914			s	″			
Nov. 13	Fn.	WI	−0. 12	+1. 15	0	5. 5	4
17	Wy.	EI	−0. 05	+1. 03	I	---	2½
21	Fn.	EI	+0. 11	+1. 03	0	5. 5	2½
Dec. 3	Fn.	WI	−0. 21	+0. 79	0	5. 5	2
Mean------	1913. 52		−0. 007	+0. 68			
Corr------			−0. 081	−0. 34			

36 H. Cassiopeiæ s. p.

			h m s	° ′ ″			
			2 29 27. 162	+72 25 31. 24			
1913							
May 3	R.	EII	−0. 09	+0. 15	0	6. 0	3
5	Hd.	EII	−0. 18	+0. 17	0	6. 0	4
19	Hd.	WII	−0. 07	−0. 16	0	5. 8	3½
20	Fn.	WII	−0. 13	−0. 18	0	5. 7	3½
1914							
Mar. 24	Fn.	EI	+0. 10	−0. 48	0	5. 5	3½
26	Hd.	EI	−0. 26	−0. 44	0	6. 5	4
Apr. 3	Fn.	WI	+0. 03	−1. 30	0	6. 0	3
6	Fn.	WI	−0. 08	+0. 04	0	6. 5	4
Mean------	1913. 80		−0. 085	−0. 28			
Corr------			−0. 081	+0. 57			

Weisse$_1$ II 434

1912			h m s	° ′ ″			
Sept. 30	R.	EII	2 29 34. 177	+11 12 37. 87	0	7. 0	3
Oct. 1	R.	EII	34. 210	38. 49	0	7. 0	2
7	R.	WII	34. 200	38. 42	0	7. 0	2
8	R.	WII	34. 223	37. 99	0	8. 0	2
1913							
Nov. 17	Fn.	WI	34. 216	37. 98	0	7. 3	2
20	Fn.	WI	34. 229	38. 38	0	7. 0	3
Dec. 3	Hd.	EI	34. 215	38. 44	0	7. 0	2
5	Fn.	EI	34. 233	38. 26	0	7. 5	3
Mean------	1913. 33		2 29 34. 213	+11 12 38. 23			
Corr------			−0. 081	−0. 21			

Piazzi II 115

1912			h m s	° ′ ″			
Oct. 4	R.	EII	2 30 36. 771	+51 34 8. 41	0	7. 5	2
5	R.	EII	36. 732	7. 36	0	7. 0	1
9	R.	WII	36. 747	7. 51	0	7. 0	2
10	R.	WII	36. 763	----	0	7. 0	1½
1913							
Nov. 21	R.	WI	36. 778	8. 24	0	6. 5	1½
22	Hd.	WI	36. 736	7. 74	0	7. 0	2
Dec. 9	R.	EI	36. 742	7. 40	0	7. 0	2
13	Hd.	EI	36. 722	7. 70	0	7. 0	3
Mean------	1913. 34		2 30 36. 749	+51 34 7. 77			
	1913. 42						
Corr------			−0. 081	−0. 29			

ν Ceti

			h m s	° ′ ″			
			2 31 8. 944	+5 12 3. 60			
1911							
Oct. 26	Fn.	WII	+0. 041	+0. 70	0	5. 2	--
Nov. 11	R.	EII	+0. 011	−0. 24	0	---	1
13	Fn.	EII	+0. 022	−0. 95	0	5. 0	2
Dec. 2	R.	WII	+0. 018	−0. 25	0	---	2½
1914							
Oct. 31	An.	EI	+0. 060	−0. 33	I	5. 4	3
Nov. 4	Hd.	WI	+0. 024	−0. 24	I	4. 9	3
5	Fn.	WI	+0. 083	+0. 18	0	5. 0	2
19	Hd.	EI	+0. 044	−0. 32	0	5. 5	3
Mean------	1913. 36		+0. 038	−0. 18			
Corr------			−0. 081	−0. 19			

Bradley 365

1912			h m s	° ′ ″			
Nov. 18	Fn.	EII	2 31 34. 234	−8 13 21. 35	0	5. 8	1½
20	Fn.	EII	34. 212	21. 61	0	5. 8	2½
26	Hd.	WII	34. 222	21. 73	0	6. 0	3½
29	Fn.	WII	34. 268	22. 25	0	6. 5	3½
1913							
Dec. 20	Hd.	WI	34. 240	21. 97	0	6. 0	2
22	Fn.	WI	34. 243	21. 60	0	6. 0	2½
1914							
Jan. 7	Hd.	EI	34. 237	21. 22	0	6. 0	2
8	R.	EI	34. 256	22. 23	0	---	2½
Mean------	1913. 45		2 31 34. 239	−8 13 21. 74			
Corr------			−0. 081	−0. 15			

Oeltzen 2966

1912			h m s	° ′ ″			
Nov. 9	Fn.	WII	2 32 58. 86	+62 12 49. 71	0	7. 4	2½
12	R.	EII	59. 06	49. 12	0	7. 5	2
16	Hd.	EII	58. 90	50. 53	0	7. 0	--
30	Hd.	WII	58. 94	49. 88	0	7. 0	1
1913							
Dec. 26	Hd.	WI	58. 99	50. 28	0	7. 5	3
29	Fn.	WI	58. 87	49. 43	0	7. 0	2
1914							
Jan. 12	R.	EI	58. 93	49. 51	0	8. 0	3
14	Hd.	EI	58. 96	49. 62	0	7. 5	1
Feb. 4	Hd.	EI	58. 95	49. 64	0	8. 0	3
Mean------	1913. 52		2 32 58. 940	+62 12 49. 75			
Corr------			−0. 081	−0. 32			

B. D.+38° 527

1916			h m s	° ′ ″			
Dec. 7	Fn.	EI	2 33 ------	+38 45 39. 25	0	7. 5	2½
26	Fn.	WI	------	39. 80	0	8. 0	2½
28	Fn.	WI	------	39. 64	0	8. 0	3
1917							
Jan. 8	Wy.	EI	------	39. 11	0	8. 0	2
Mean------	1916. 98		2 33 ------	+38 45 39. 45			
Corr------			------	−0. 27			

ν Arietis

			h m s	° ′ ″			
			2 33 42. 196	+21 34 21. 52			
1911							
Nov. 15	Fn.	EII	+0. 001	−0. 20	0	5. 6	2
18	R.	EII	−0. 034	−0. 25	0	5. 5	2½
Dec. 4	Hd.	WII	−0. 003	+0. 37	0	5. 5	--
5	Hd.	WII	−0. 055	+0. 55	0	5. 5	2
1914							
Oct. 28	An.	EI	+0. 036	+0. 04	0	6. 0	3
30	Hd.	EI	−0. 020	+0. 72	0	6. 0	3
Nov. 2	Fn.	WI	−0. 016	+0. 40	0	5. 5	2
3	An.	WI	+0. 001	+0. 82	0	6. 0	3
Mean------	1913. 37		−0. 011	+0. 31			
Corr------			−0. 081	−0. 23			

142 H^1. Cephei

1911			h m s	° ′ ″			
Nov. 22	Hd.	EII	2 34 44. 74	+81 4 5. 51	0	6. 0	2
Dec. 19	Hd.	EII	44. 50	6. 02	0	6. 0	2
1912							
Jan. 15	Fn.	WII	44. 36	5. 73	0	6. 3	2
16	R.	WII	44. 71	6. 29	0	6. 0	3
1914							
Oct. 21	An.	EI	44. 56	5. 60	0	---	--
23	Fn.	EI	44. 67	5. 57	0	6. 0	2½
Nov. 9	Hd.	WI	44. 59	5. 85	0	6. 0	2
10	Fn.	WI	44. 41	5. 57	0	---	4
Mean------	1913. 41		2 34 44. 568	+81 4 5. 77			
Corr------			−0. 081	−0. 37			

142 H¹. Cephei s. p.

				h	m	s	°	′	″			
1913												
Feb.	8	R.	WII	2	34	44.62	+81	4	3.95	0	6.0	3
	15	R.	WII			44.72			4.61	0	---	5
	25	R.	EII			44.59			4.00	0	6.0	3½
Mar.	11	R.	EII			44.15			5.44	0	---	2½
1914												
May	2	Fn.	WI			44.35			4.14	0	6.0	3½
	6	Fn.	WI			44.41			5.11	0	6.5	3
	25	Fn.	EI			44.31			4.73	0	---	3½
June	2	Fn.	EI			44.40			5.14	0	6.0	2½
Mean		1913.76		2	34	44.444	+81	4	4.64			
Corr						−0.081			+0.47			

δ Ceti

				h	m	s	°	′	″			
				2	34	52.101	−0	3	33.18			
1911												
Dec.	25	R.	EII			+0.014			----	0	---	2½
	27	R.	EII			+0.016			+0.96	I	---	--
1912												
Jan.	4	Fn.	EII			+0.017			−1.60	0	---	--
	9	R.	EII			+0.043			----	0	---	5
	10	Hd.	EII			+0.037			−0.35	I	3.9	4
	21	Hd.	WII			+0.019			+0.30	I	3.4	3
	22	Fn.	WII			+0.040			−0.07	I	3.9	3
Sept.	19	R.	WII			+0.008			−0.44	I	3.9	2½
	30	R.	EII			−0.009			−0.14	I	4.4	3½
Oct.	1	R.	EII			+0.022			−0.29	I	3.9	2½
	8	R.	WII			−0.003			+0.37	I	4.9	2
	9	R.	WII			+0.009			−0.64	I	4.4	2½
	10	R.	WII			+0.045			−0.22	I	4.4	1½
	25	Fn.	EII			+0.024			+0.07	I	3.9	2½
	26	R.	EII			+0.019			−0.41	I	3.4	3
Nov.	4	R.	WII			+0.041			−0.69	0	---	4
	11	R.	EII			+0.029			+1.00	0	---	5
	22	Fn.	EII			+0.013			−0.19	I	4.9	2
Dec.	9	Fn.	WII			+0.039			----	0	4.9	3
	12	R.	EII			+0.045			----	I	4.4	2
	13	Hd.	EII			+0.042			+0.05	I	3.9	3
	14	R.	EII			−0.006			−0.25	0	5.5	2
	15	Fn.	EII			+0.037			----	0	---	3½
	19	Hd.	EII			+0.072			----	I	3.9	2
	20	Fn.	EII			+0.044			−0.79	0	---	3
1913												
Nov.	21	R.	WI			+0.005			----	I	3.4	1½
Dec.	9	R.	EI			+0.017			----	I	3.9	2
	18	Fn.	WI			+0.027			−0.02	I	3.9	2½
	19	R.	WI			+0.022			−0.21	I	4.4	2½
1914												
Jan.	8	R.	EI			+0.030			----	0	---	3
	10	Hd.	EI			+0.040			----	0	---	3
	13	Wy.	EI			0.000			+0.46	0	5.0	3
	20	Fn.	WI			+0.033			−0.47	0	---	3
	21	Hd.	WI			+0.023			----	I	3.9	3
	22	Hd.	WI			+0.037			----	I	---	2
	23	Fn.	WI			−0.021			----	0	---	3½
	27	Fn.	WI			+0.036			−0.56	0	---	3½
Nov.	11	An.	WI			+0.047			−0.22	I	4.9	2
	13	Fn.	WI			+0.007			−1.74	0	---	4
	26	Wy.	EI			+0.011			−1.03	I	4.4	3½
Dec.	3	Fn.	WI			+0.057			−0.37	0	---	2½
	21	Fn.	WI			+0.030			−0.33	0	---	2½
	22	Wy.	WI			+0.090			−0.16	I	4.4	3
	30	An.	EI			+0.054			----	0	---	4
1915												
Jan.	5	Wy.	EI			+0.012			----	I	3.9	3
	7	Hd.	EI			+0.033			−0.46	I	3.4	3
	8	Wy.	EI			+0.017			----	0	---	3
	9	An.	EI			+0.014			−0.22	I	4.9	2½
	10	Wy.	WI			−0.003			−0.51	I	4.4	3½
	13	An.	WI			+0.057			----	I	---	2½
	14	Hd.	WI			+0.028			----	I	3.4	2½
	15	Fn.	WI			+0.052			−1.74	I	3.9	3
	26	An.	EI			+0.055			+0.15	0	---	3
	29	Wy.	EI			+0.013			−0.23	I	4.4	3½
1915						s			″			
Sept.	28	Hd.	EI			+0.009			−0.05	I	3.4	2½
	29	Fn.	EI			+0.029			----	I	4.4	3
Oct.	12	Fn.	WI			+0.003			----	I	3.9	3
	21	Fn.	WI			+0.031			----	0	5.0	3
	22	Hd.	WI			+0.049			−0.47	I	3.9	3
	23	Wy.	WI			+0.066			−0.25	I	3.9	3½
	25	Wy.	WI			+0.035			−0.35	I	3.9	2½
	27	Fn.	WI			+0.010			−0.61	0	4.5	2½
	28	Wy.	EI			+0.042			+0.34	I	3.9	3
	29	Hd.	EI			+0.010			−0.53	I	3.9	3
	30	Fn.	EI			+0.008			+0.05	0	4.5	3
Nov.	1	Hd.	EI			+0.024			−0.75	I	4.4	3½
	24	Hd.	EI			+0.032			−0.16	I	3.9	1
	30	Fn.	EI			+0.040			+0.24	I	3.9	3
Dec.	2	Wy.	EI			+0.040			−0.01	I	4.4	4
	6	Fn.	WI			+0.063			+0.37	I	4.4	3
	21	Fn.	WI			+0.010			----	I	3.9	2½
	27	Wy.	WI			+0.053			----	0	---	4
1916												
Jan.	4	Fn.	EI			+0.018			−1.02	0	---	3
	8	Hd.	EI			+0.028			−0.24	I	3.9	3
	14	Wy.	EI			+0.016			+0.48	I	4.4	3½
Mean		1914.29				+0.028			−0.27			
		1914.30										
Corr						−0.081			−0.18			

Lalande 4862

				h	m	s	°	′	″			
1912												
Oct.	16	Fn.	WII	2	34	57.410	+58	35	29.09	0	6.7	1½
	28	Fn.	EII			57.373			28.78	0	---	2½
	29	R.	EII			57.456			29.21	0	7.5	5
Nov.	2	R.	WII			57.413			30.20	0	7.5	2
1913												
Nov.	17	Fn.	WI			57.410			29.25	0	7.5	2
	20	Fn.	WI			57.445			29.21	0	7.3	3
Dec.	3	Hd.	EI			57.363			28.93	0	7.5	2
	4	Fn.	EI			57.348			29.18	0	7.5	3
Mean		1913.36		2	34	57.402	+58	35	29.23			
Corr						−0.081			−0.32			

ϵ Ceti

				h	m	s	°	′	″			
1911												
Nov.	19	Fn.	EII	2	35	12.596	−12	15	15.15	0	5.0	3
	21	Fn.	EII			12.633			14.37	--	---	--
Dec.	6	Hd.	WII			12.708			14.90	I	4.4	--
	7	Hd.	WII			12.678			14.50	I	4.4	--
1914												
Nov.	21	Fn.	EI			12.764			16.26	0	5.0	3
	23	Fn.	EI			12.648			15.77	0	5.0	3
Dec.	12	An.	WI			12.754			15.13	I	5.4	3
	18	Hd.	WI			12.716			15.72	0	6.0	3
Mean		1913.42		2	35	12.687	−12	15	15.22			
Corr						−0.081			−0.13			

Lalande 4976

				h	m	s	°	′	″			
1912												
Oct.	4	R.	EII	2	35	46.686	−16	41	42.61	0	8.0	2
	5	R.	EII			46.708			42.58	0	7.5	2
	7	R.	WII			46.682			42.74	0	8.0	2½
	15	R.	WII			46.676			43.00	0	7.5	2½
1913												
Nov.	24	Fn.	WI			46.665			42.13	0	7.5	3½
Dec.	13	Hd.	EI			46.713			43.04	0	7.5	3
	15	Fn.	WI			46.659			42.65	0	7.5	3
1914												
Jan.	5	R.	EI			46.728			43.41	0	8.0	3½
Mean		1913.36		2	35	46.690	−16	41	42.77			
Corr						−0.081			−0.10			

Bradley 371

			h m s	° ′ ″			
1911							
Oct. 26	Fn.	WII	2 36 33.828	+39 48 -----	0	5.1	2
Nov. 2	Fn.	EII	33.777	49.25	0	5.0	2
3	Hd.	EII	33.823	49.82	0	---	--
Dec. 1	R.	WII	33.840	49.52	0	5.5	1½
1914							
Oct. 31	An.	EI	33.834	48.75	I	4.9	2½
Nov. 4	Hd.	WI	33.791	49.16	I	4.9	2½
5	Fn.	WI	33.792	48.25	0	5.0	2
19	Hd.	EI	33.778	49.31	I	4.4	2
1915							
Jan. 5	Wy.	EI	33.826	-----	I	4.9	2
8	Wy.	EI	33.795	-----	0	---	2½
13	An.	WI	33.782	-----	I	---	2
14	Hd.	WI	33.806	-----	I	4.4	2½
Dec. 6	Fn.	WI	33.782	-----	0	5.0	2½
15	Fn.	WI	33.816	-----	0	---	2½
21	Fn.	WI	33.820	-----	0	5.0	2
27	Wy.	WI	33.788	49.17	0	---	3
1917							
Jan. 16	Hd.	EI	33.744	-----	0	6.0	3
1918							
Jan. 19	Wy.	WII	33.752	-----	I	4.9	2½
Feb. 8	*Wy.*	*WII*	*33.790*	-----	*0*	---	*3*
Mean	1914.77		2 36 33.799	+39 48 49.15			
	1913.87						
Corr			−0.081	−0.27			

B. D.+47° 683

			h m s	° ′ ″			
1912							
Nov. 18	Fn.	EII	2 36 59.150	+47 52 54.36	0	6.1	1½
20	Fn.	EII	59.137	53.94	0	6.4	2½
26	Hd.	WII	59.126	53.62	0	---	3½
29	Fn.	WII	59.129	53.28	0	6.2	2½
1913							
Nov. 21	R.	WI	59.171	54.08	0	6.0	1½
22	Hd.	WI	59.144	54.41	0	6.5	2
Dec. 5	Fn.	EI	59.101	53.79	0	6.5	2½
11	Fn.	EI	59.141	53.42	0	6.5	2½
Mean	1913.40		2 36 59.137	+47 52 53.86			
Corr			−0.081	−0.29			

θ Persei

			h m s	° ′ ″			
			2 38 2.918	+48 50 53.88			
1911							
Nov. 11	R.	EII	−0.008	−0.35	0	---	1
13	Fn.	EII	+0.015	−0.16	I	3.6	2
Dec. 2	R.	WII	+0.010	+0.55	0	---	3
4	Hd.	WII	−0.028	+0.02	I	3.9	--
1915							
Sept. 22	Wy.	EI	−0.010	+0.02	I	3.9	2
24	Hd.	EI	−0.028	+0.38	I	3.4	2
Oct. 9	Hd.	WI	−0.070	−0.11	I	3.9	2
11	Hd.	WI	−0.028	+0.01	I	3.9	2
Mean	1913.82		−0.018	+0.04			
Corr			−0.081	−0.29			

Bradley 376

			h m s	° ′ ″			
1912							
Dec. 6	Fn.	WII	2 38 13.169	+43 54 53.82	0	5.9	2
9	Fn.	WII	13.100	54.33	0	5.5	2
13	Hd.	EII	13.179	53.95	0	5.8	2
19	Hd.	EII	13.132	53.48	0	5.8	2
1913							
Dec. 26	Hd.	WI	13.156	54.15	0	5.5	3
29	Fn.	WI	13.151	53.94	0	6.0	1½
1914							
Jan. 6	Fn.	EI	13.155	54.25	0	5.5	2
7	Hd.	EI	13.169	54.05	0	6.0	2
Mean	1913.48		2 38 13.151	+43 54 54.00			
Corr			−0.081	−0.28			

γ Ceti *seq.*

			h m s	° ′ ″			
			2 38 38.099	+2 51 24.48			
1911							
Dec. 5	Hd.	WII	+0.076	−0.03	I	3.1	--
25	R.	EII	+0.024	+0.26	I	---	3
27	R.	EII	+0.003	+0.97	I	3.4	3
1912							
Jan. 13	R.	WII	+0.069	+0.19	I	2.9	3
1915							
Sept. 28	Hd.	EI	+0.079	+0.47	I	3.4	2½
29	Fn.	EI	+0.064	−0.10	I	3.9	3
Oct. 12	Fn.	WI	+0.057	−0.05	I	3.4	2½
21	Fn.	WI	+0.044	+0.17	0	4.5	3
Mean	1913.87		+0.052	+0.24			
Corr			−0.081	−0.19			

Weisse$_1$ II 624

			h m s	° ′ ″			
1912							
Nov. 30	Hd.	WII	2 38 55.900	−2 54 49.91	0	7.0	2
Dec. 3	R.	WII	55.914	50.32	0	6.5	3
12	R.	EII	55.891	49.46	0	7.0	2
14	R.	EII	55.816	50.45	0	7.5	3
1914							
Jan. 10	Hd.	EI	55.877	50.57	0	---	3
12	R.	EI	55.885	50.27	0	6.5	3
14	Hd.	EI	55.872	50.57	0	7.0	2
21	Hd.	WI	55.883	50.76	0	6.5	3
22	Hd.	WI	55.854	50.30	0	7.0	3
Mean	1913.55		2 38 55.877	−2 54 50.29			
Corr			−0.081	−0.17			

π Ceti

			h m s	° ′ ″			
			2 39 50.289	−14 14 21.96			
1912							
Jan. 9	R.	EII	+0.060	−0.80	0	5.5	5
10	Hd.	EII	+0.092	−0.86	I	4.4	4
15	Fn.	WII	-----	+0.40	I	4.7	3
16	R.	WII	+0.166	−1.27	I	4.4	4½
22	Fn.	WII	+0.134	−0.70	0	5.2	3
1914							
Oct. 28	An.	EI	+0.096	−0.17	I	---	4
30	Hd.	EI	+0.021	−1.05	I	---	4
Nov. 2	Fn.	WI	+0.096	−1.49	0	4.5	3
3	An.	WI	+0.069	−0.34	0	---	3½
Mean	1913.44		+0.092	−0.70			
	1913.28						
Corr			−0.081	−0.12			

μ Ceti

			h m s	° ′ ″			
			2 40 4.544	+9 44 4.79			
1912							
Nov. 4	R.	WII	+0.036	−0.70	I	4.4	2½
9	Fn.	WII	+0.054	−0.70	I	3.9	2½
12	R.	EII	+0.092	−0.93	I	4.4	3½
16	Hd.	EII	+0.061	+0.45	I	4.4	3
1913							
Dec. 13	Hd.	EI	+0.055	−0.67	I	4.4	3
15	Fn.	WI	+0.032	+0.38	0	5.0	2
18	Fn.	WI	+0.051	−0.75	0	4.5	2½
22	Fn.	WI	+0.071	−0.22	0	4.5	2½
1914							
Jan. 8	R.	EI	+0.044	−1.43	0	---	3
Mean	1913.48		+0.055	−0.51			
Corr			−0.081	−0.21			

Lacaille 850

			h m s	° ′ ″		
1911						
Nov. 22	Hd.	EII	2 40 14.601	−25 52 38.55	0	7.0 2
Dec. 6	Hd.	WII	14.634	39.52	0	7.0 --
7	Hd.	WII	14.615	39.00	0	7.0 --
19	Hd.	EII	14.623	38.76	0	7.2 3½
1914						
Nov. 23	Fn.	EI	14.696	39.27	0	7.5 3
1915						
Jan. 4	Hd.	EI	14.622	38.44	0	7.5 3
10	Wy.	WI	14.713	38.93	0	8.0 3½
13	An.	WI	14.722	38.69	0	7.5 3½
Mean	1913.46		2 40 14.653	−25 52 38.90		
Corr			−0.081	−0.02		

Bradley 373

			h m s	° ′ ″		
1911						
Nov. 7	R.	EII	2 40 47.65	+69 15 22.85	0	6.5 2
10	Hd.	EII	47.56	23.13	0	6.5 --
1912						
Jan. 19	Fn.	WII	47.53	23.54	0	6.6 2
21	Hd.	WII	47.52	23.64	0	6.2 2½
1914						
Nov. 11	An.	WI	47.57	23.74	0	7.0 3
13	Fn.	WI	47.49	24.10	0	6.5 3½
17	Wy.	EI	47.56	23.66	0	6.5 3
21	Fn.	EI	47.70	23.82	0	6.5 2
Mean	1913.41		2 40 47.572	+69 15 23.56		
Corr			−0.081	−0.34		

Weisse$_2$ II 915

			h m s	° ′ ″		
1912						
Sept. 30	R.	EII	2 41 24.358	+35 36 20.42	0	6.5 3
Oct. 1	R.	EII	24.389	20.69	0	6.0 2
7	R.	WII	24.397	20.65	0	6.0 1½
8	R.	WII	24.396	20.44	0	7.0 2
1913						
Nov. 24	Fn.	WI	24.447	20.83	0	6.5 2
Dec. 3	Hd.	EI	24.383	20.77	0	7.0 2
4	Fn.	EI	24.353	20.73	0	6.5 2½
19	R.	WI	24.403	21.34	0	6.5 2
Mean	1913.34		2 41 24.391	+35 36 20.73		
Corr			−0.081	−0.26		

39 Arietis

			h m s	° ′ ″		
1911						
Oct. 26	Fn.	WII	2 42 32.772	+28 52 25.75	0	5.0 2
Nov. 2	Fn.	EII	32.824	27.11	0	4.9 2
3	Hd.	EII	32.793	25.57	0	5.0 --
Dec. 1	R.	WII	32.812	25.47	I	4.4 1
1914						
Nov. 9	Hd.	WI	32.883	25.16	I	4.4 2
10	Fn.	WI	32.878	26.50	0	--- 3½
24	Hd.	EI	32.844	24.89	0	--- 3
26	Wy.	EI	32.844	25.01	0	5.5 3
Mean	1913.37		2 42 32.831	+28 52 25.68		
Corr			−0.081	−0.25		

Lalande 5196

			h m s	° ′ ″		
1912						
Oct. 4	R.	EII	2 42 39.768	−22 1 1.94	0	6.5 2½
9	R.	WII	39.776	2.80	0	6.5 2
10	R.	WII	39.705	2.47	0	7.5 3
26	R.	EII	39.783	1.62	0	--- 4
1914						
Oct. 21	An.	EI	39.793	2.15	0	7.0 3½
23	Fn.	EI	39.886	2.61	0	6.5 3
Nov. 4	Hd.	WI	39.798	3.43	0	7.0 3½
5	Fn.	WI	39.831	2.47	0	7.0 3
Mean	1913.80		2 42 39.792	−22 1 2.44		
Corr			−0.081	−0.06		

Bradley 393

			h m s	° ′ ″		
1911						
Dec. 25	R.	EII	2 43 29.225	+17 54 33.32	0	6.0 2
27	R.	EII	29.191	33.16	0	5.5 3
1912						
Jan. 13	R.	WII	29.203	33.32	0	6.0 2½
16	R.	WII	29.231	32.30	0	5.5 3
1914						
Dec. 22	Wy.	WI	29.240	33.69	0	6.2 2½
23	Hd.	WI	29.204	33.15	0	6.5 2½
1915						
Jan. 4	Hd.	EI	29.253	33.29	0	6.0 3
5	Wy.	EI	29.230	33.23	0	6.0 2½
Mean	1913.50		2 43 29.222	+17 54 33.18		
Corr			−0.081	−0.23		

B. D.−13° 530

			h m s	° ′ ″		
1912						
Oct. 14	Fn.	WII	2 43 37.291	−12 50 7.10	0	6.6 3½
15	R.	WII	37.220	6.03	0	6.0 2½
Nov. 18	Fn.	EII	37.226	7.12	0	6.3 1½
20	Fn.	EII	37.179	7.06	0	6.6 3½
1913						
Nov. 21	R.	WI	37.178	6.56	0	6.0 1½
22	Hd.	WI	37.189	6.84	0	7.0 3
Dec. 5	Fn.	EI	37.267	7.04	0	7.0 3½
9	R.	EI	37.209	7.81	0	6.5 2
Mean	1913.38		2 43 37.220	−12 50 6.94		
Corr			−0.081	−0.12		

η Persei

			h m s	° ′ ″		
			2 44 7.462	+55 31 21.40		
1912						
Oct. 16	Fn.	WII	−0.168	−0.63	0	--- 1½
28	Fn.	EII	−0.080	+0.61	I	3.5 2½
29	R.	EII	−0.017	+0.19	I	3.4 3
Nov. 2	R.	WII	−0.131	+0.36	I	3.9 1½
1913						
Dec. 22	Fn.	WI	−0.072	+1.33	0	--- 2½
26	Hd.	WI	−0.086	+1.06	I	4.4 3
1914						
Jan. 7	Hd.	EI	−0.128	+0.67	I	3.9 2
8	R.	EI	−0.155	−0.34	I	4.4 2
Mean	1913.41		−0.105	+0.41		
Corr			−0.081	−0.30		

41 Arietis

			h m s	° ′ ″		
			2 44 40.990	+26 53 23.75		
1911			s	″	″	
Nov. 13	Fn.	EII	+0.070	−0.79	0	3.9 2
15	Fn.	EII	+0.046	−0.94	I	3.1 2
Dec. 2	R.	WII	+0.010	----	--	--- --
4	Hd.	WII	+0.042	−0.33	I	3.2 2
5	Hd.	WII	−0.008	+0.11	I	3.4 --
1914						
Oct. 30	Hd.	EI	+0.059	−0.07	I	3.9 3
31	An.	EI	+0.058	−0.01	I	4.4 2½
Nov. 2	Fn.	WI	+0.016	−1.57	I	3.9 2
3	An.	WI	+0.023	+0.54	I	4.9 2½
1916						
July 5	*Wy.*	*EI*	*+0.001*	*−0.65*	*−0.68*	*0* --- *3½*
Sept. 7	Wy.	WI	+0.016	−0.39	I	3.9 3½
Dec. 7	Fn.	EI	+0.037	−0.91	I	3.9 2½
26	Fn.	WI	+0.015	−0.71	0	--- 2
29	Hd.	WI	+0.014	−0.30	I	3.4 2
1917						
Jan. 2	Wy.	WI	+0.010	−0.46	I	3.4 2
8	Wy.	EI	+0.023	−0.52	I	3.9 2½
18	Fn.	EI	−0.002	--	0	--- 2½

				s	"	"			
1917									
Jan.	19	Hd.	EI		+0.033	−0.65	I	3.4	2
June	*24*	*Wy.*	*WII*		*−0.018*	*−0.12*	*−0.12*	*0*	---	*3½*
	27	*Wy.*	*EII*		-----	*−0.42*	*−0.43*	*0*	---	*3½*
	28	*Hd.*	*EII*		-----	*−0.82*	*−0.87*	*0*	---	*3½*
July	*1*	*Hd.*	*EII*		-----	*−0.72*	*−0.77*	*0*	---	*3*
	29	*Wy.*	*EII*		*+0.002*	*−0.49*	*−0.54*	*0*	---	*3*
Aug.	*5*	*Hd.*	*WII*		*+0.059*	*−0.01*	*0.00*	*0*	---	*2*
	12	*Fn.*	*WII*		*+0.041*	*−0.78*	*−0.78*	*0*	---	*2½*
	13	*Hd.*	*WII*		*+0.007*	*−0.60*	*−0.59*	*I*	---	*2*
	17	*Wy.*	*WII*		*+0.052*	*−0.22*	*−0.20*	*I*	---	*3*
Dec.	6	Fn.	WII		+0.044		−0.83	I	3.9	1½
1918										
Jan.	8	Hd.	EII		+0.027		−0.04	I	3.9	3
	10	Fn.	EII		+0.075		−0.20	0	---	3½
	19	Wy.	WII		+0.030		−0.18	I	3.4	2½
	21	Fn.	WII		+0.016		−0.19	I	3.9	2
Feb.	*8*	*Wy.*	*WII*		*+0.054*	*−0.08*	*−0.07*	*I*	---	*3*
Mar.	*7*	*Fn.*	*EII*		*+0.127*	*−0.17*	*−0.13*	*0*	---	*3½*
	8	*Wy.*	*EII*		-----	*−0.49*	*−0.46*	*0*	---	*4*
June	*23*	*Wy.*	*WII*		*+0.068*	*−0.82*	*−0.83*	*0*	---	*3½*
July	*1*	*Hd.*	*WII*		*+0.054*	*−0.47*	*−0.47*	*0*	---	*3*
	8	*Hd.*	*EII*		*+0.048*	*−0.48*	*−0.53*	*0*	---	*3½*
	15	*Hd.*	*EII*		*+0.042*	*−0.23*	*−0.28*	*0*	---	*3*
Aug.	*11*	*Fn.*	*WII*		*+0.029*	*−0.35*	*−0.34*	*0*	---	*2*
Mean		1915.68			+0.030		−0.42			
		1915.80								
Corr					−0.081		−0.24			

β Fornacis

	h	m	s	°	′	″
	2	45	19.459	−32	47	0.42

				s	"	"			
1912									
Nov.	22	Fn.	EII		+0.048	−0.95	0	5.5	3½
	26	Hd.	WII		−0.048	−1.06	0	---	5
	29	Fn.	WII		+0.089	+0.07	0	5.5	4
Dec.	12	R.	EII		+0.020	+1.43	0	6.0	2½
	13	Hd.	EII		−0.025	−0.48	0	5.5	3½
1913									
Dec.	13	Hd.	EI		+0.065	−0.77	0	5.5	3½
	18	Fn.	WI		−0.028	+0.85	0	---	3½
	19	R.	WI		+0.053	+0.95	0	6.0	3
1914									
Jan.	10	Hd.	EI		+0.137	−0.02	0	---	4
Mean		1913.39			+0.035	0.00			
Corr					−0.081	+0.09			

σ Arietis

	h	m	s	°	′	″
	2	46	31.279	+14	42	41.62

				s	"	"			
1911									
Nov.	10	Hd.	EII		+0.041	+0.23	0	6.2	3
	11	R.	EII		+0.008	−0.17	0	---	1
Dec.	6	Hd.	WII		+0.036	+0.63	0	5.5	--
	7	Hd.	WII		+0.011	+0.70	0	5.5	--
1914									
Nov.	11	An.	WI		+0.020	+1.13	0	6.0	3
	19	Hd.	EI		+0.014	+0.72	0	6.0	3½
	21	Fn.	EI		+0.038	+0.62	0	5.5	3
Dec.	12	An.	WI		+0.038	----	0	---	2½
	21	Fn.	WI		+0.030	−0.32	0	---	3½
Mean		1913.57			+0.026	+0.44			
		1913.40							
Corr					−0.081	−0.22			

τ^2 Eridani

	h	m	s	°	′	″
	2	46	57.278	−21	22	28.19

				s	"	"			
1912									
Sept.	30	R.	EII		+0.143	−1.54	0	---	5
Oct.	4	R.	EII		+0.116	−0.38	0	5.5	3½
	7	R.	WII		+0.135	−0.03	0	5.5	2½
	8	R.	WII		+0.078	−0.11	0	5.5	3
1913									
Nov.	24	Fn.	WI		+0.050	−0.26	0	5.0	3½
Dec.	3	Hd.	EI		+0.176	+0.44	0	6.0	3½
	4	Fn.	EI		+0.101	−0.14	0	5.0	3½
	15	Fn.	WI		+0.079	−0.03	0	5.5	3
Mean		1913.34			+0.110	−0.26			
Corr					−0.081	−0.07			

τ Persei

	h	m	s	°	′	″
	2	47	52.165	+52	23	41.22

				s	"	"			
1911									
Oct.	26	Fn.	WII		−0.015	−0.18	0	4.1	2
Nov.	3	Hd.	EII		−0.009	+0.26	I	3.7	--
	7	R.	EII		+0.056	+0.27	I	---	2
1912									
Jan.	13	R.	WII		+0.003	+0.63	I	4.4	3½
1914									
Oct.	21	An.	EI		+0.053	−0.43	I	---	2½
	23	Fn.	EI		−0.014	−0.55	0	4.5	2
Nov.	4	Hd.	WI		−0.040	+0.43	I	3.9	2
	10	Fn.	WI		−0.053	+0.14	0	---	3½
Mean		1913.36			−0.002	+0.07			
Corr					−0.081	−0.29			

Groombridge 569

				h	m	s	°	′	″			
1912												
Oct.	31	R.	EII	2	49	23.78	+72	18	36.24	0	7.0	2
Nov.	2	R.	WII			23.72			34.71	0	7.5	2
	9	Fn.	WII			23.67			34.73	0	7.6	2½
	18	Fn.	EII			23.64			35.87	0	7.0	1½
1913												
Nov.	21	R.	WI			23.71			36.17	0	7.0	1½
	22	Hd.	WI			23.66			35.69	0	7.5	2
Dec.	5	Fn.	EI			23.60			34.43	0	---	3
	9	R.	EI			23.71			34.84	0	7.0	2
Mean		1913.38		2	49	23.686	+72	18	35.34			
Corr						−0.081			−0.34			

Groombridge 569 s. p.

				h	m	s	°	′	″			
1912												
May	10	Hd.	WII	2	49	23.63	+72	18	34.52	0	---	4
	20	Fn.	EII			23.81			33.78	0	8.5	4½
	27	Fn.	EII			23.65			35.53	0	---	3½
	31	Hd.	WII			23.63			34.08	0	7.5	2½
June	1	R.	WII			23.59			35.19	0	---	1
	5	R.	EII			23.66			34.90	0	---	--
1915												
May	19	Fn.	EI			23.78			34.03	0	8.0	3
June	8	Hd.	EI			23.74			34.41	0	8.5	3
	17	Fn.	WI			23.58			34.76	0	8.0	3
	19	Wy.	WI			23.72			34.10	0	---	3½
Mean		1913.61		2	49	23.679	+72	18	34.53			
Corr						−0.081			+0.57			

Weisse$_1$ II 821

				h	m	s	°	′	″			
1911												
Dec.	27	R.	EII	2	50	9.957	−5	41	46.41	0	7.3	3
1912												
Jan.	4	Fn.	EII			9.953			47.13	0	---	4
	15	Fn.	WII			9.989			45.97	0	7.7	1½
	16	R.	WII			10.035			46.74	0	7.5	3½
1914												
Nov.	23	Fn.	EI			10.000			47.19	0	7.5	3
	26	Wy.	EI			10.011			46.41	0	---	3½
Dec.	22	Wy.	WI			10.049			47.38	0	7.5	3
	23	Hd.	WI			10.038			47.08	0	7.5	3
1915												
Jan.	4	Hd.	EI			9.952			46.92	0	7.5	2½
Mean		1913.65		2	50	9.998	−5	41	46.80			
Corr						−0.081			−0.16			

Weisse$_1$ II 824

				h	m	s	°	′	″			
1912												
Oct. 14	Fn.		WII	2	50	42.409	+14	20	32.69	0	---	--
15	R.		WII			42.374			33.33	0	7.5	1½
16	Fn.		WII			42.334			32.89	0	7.5	2
25	Fn.		EII			42.393			33.62	0	7.2	2
26	R.		EII			42.418			32.99	0	7.0	2½
1913												
Dec. 18	Fn.		WI			42.406			32.60	0	8.0	2½
19	R.		WI			42.386			32.70	0	7.5	2½
1914												
Jan. 6	Fn.		EI			42.399			32.87	0	7.5	2½
7	Hd.		EI			42.363			32.72	0	7.5	2
Mean		1913.33		2	50	42.387	+14	20	32.93			
Corr						−0.081			−0.22			

Bradley 410

				h	m	s	°	′	″			
1911												
Nov. 13	Fn.		EII	2	51	24.863	+8	1	10.32	0	---	--
15	Fn.		EII			24.899			10.79	0	6.5	2
Dec. 5	Hd		WII			24.858			11.96	0	6.7	3
6	Hd.		WII			24.911			11.99	0	5.8	1
1915												
Sept. 22	Wy.		EI			24.850			11.86	0	6.5	3
24	Hd.		EI			24.901			11.85	0	6.0	2½
Oct. 9	Hd.		WI			24.876			11.39	D	6.0	2½
11	Hd.		WI			24.887			10.89	D	6.0	2
Mean		1913.82		2	51	24.881	+8	1	11.38			
Corr						−0.081			−0.20			

η Eridani

				h	m	s	°	′	″			
				2	52	1.839	−9	15	21.89			
1912												
Sept. 30	R.		EII			−0.013			−0.25	I	---	4
Oct. 1	R.		EII			+0.041			+0.06	I	3.4	3½
8	R.		WII			−0.003			+0.20	I	3.9	2½
9	R.		WII			+0.018			−0.89	I	---	1½
1913												
Dec. 22	Fn.		WI			+0.021			+0.51	0	---	3
27	Wy.		WI			+0.004			−0.12	I	4.4	2½
1914												
Jan. 8	R.		EI			+0.043			−0.81	D	---	3
10	Hd.		EI			+0.018			+0.64	I	---	3
20	Fn.		WI			+0.020			−0.51	D	---	3½
22	Hd.		WI			+0.006			−0.05	D	---	3
Mean		1913.52				+0.016			−0.12			
Corr						−0.081			−0.15			

Weisse$_1$ II 864

				h	m	s	°	′	″			
1911												
Nov. 10	Hd.		EII	2	52	21.601	+4	8	16.95	0	6.0	--
11	R.		EII			21.579			16.43	0	---	1
Dec. 7	Hd.		WII			21.661			16.95	0	6.5	--
25	R.		EII			21.632			17.14	0	---	3
1912												
Jan. 19	Fn.		WII			21.614			17.57	0	6.6	1½
1914												
Nov. 17	Wy.		EI			21.676			17.14	0	6.0	2½
19	Hd.		EI			21.614			17.05	0	6.5	3
Dec. 12	An.		WI			21.641			17.28	0	7.0	3
21	Fn.		WI			21.641			15.69	0	---	3½
Mean		1913.25		2	52	21.629	+4	8	16.91			
Corr						−0.081			−0.19			

Bradley 412

				h	m	s	°	′	″			
1912												
Oct. 4	R.		EII	2	52	56.029	+20	18	29.70	0	6.0	2½
7	R.		WII			56.036			29.87	0	6.0	2½
10	R.		WII			56.047			29.40	0	6.0	1½
29	R.		EII			56.058			29.93	0	6.0	4
1913												
Nov. 24	Fn.		WI			56.074			29.38	0	6.0	2
Dec. 3	Hd.		EI			56.076			30.12	0	6.0	2
11	Fn.		EI			56.089			28.91	0	6.0	2
15	Fn.		WI			56.034			29.74	0	6.0	2
Mean		1913.36		2	52	56.055	+20	18	29.63			
Corr						−0.081			−0.23			

π Persei

				h	m	s	°	′	″			
1912												
Nov. 22	Fn.		EII	2	53	0.130	+39	18	11.81	0	5.0	1½
29	Fn.		WII			0.041			11.36	0	5.0	2
30	Hd.		WII			0.130			11.12	I	4.4	1
Dec. 13	Hd.		EII			0.085			11.02	I	4.4	2
1913												
Dec. 29	Fn.		WI			0.071			11.15	0	5.0	1½
1914												
Jan. 12	R.		EI			0.101			11.08	0	---	2½
14	Hd.		EI			0.090			12.11	0	---	2
21	Hd.		WI			0.136			11.28	I	4.4	3
Feb. 4	Hd.		EI			0.104			10.98	I	4.9	3
Mean		1913.54		2	53	0.099	+39	18	11.32			
Corr						−0.081			−0.27			

ϵ Arietis *mean*

		h	m	s	°	′	″
		2	54	3.757	+20	58	51.03
1912							
Jan. 4	Fn.	EII		0.000			+0.26
9	R.	EII		−0.010			+0.60
13	R.	WII		+0.044			+0.84
15	Fn.	WII		+0.058			+0.93
1914							
Dec. 23	Hd.	WI		+0.002			−0.64
1915							
Jan. 4	Hd.	EI		+0.047			−0.39
5	Wy.	EI		+0.029			+0.24
10	Wy.	WI		+0.056			+0.28
13	An.	WI		+0.022			+0.67
Mean	1913.69			+0.028			+0.31
Corr				−0.081			−0.23

1912												
Jan. 4	Fn.		EII			0.000			+0.26	0	---	2½
9	R.		EII			−0.010			+0.60	0	---	5
13	R.		WII			+0.044			+0.84	I	4.4	2½
15	Fn.		WII			+0.058			+0.93	0	4.5	--
1914												
Dec. 23	Hd.		WI			+0.002			−0.64	D	5.5	3
1915												
Jan. 4	Hd.		EI			+0.047			−0.39	I	4.4	2
5	Wy.		EI			+0.029			+0.24	I	4.9	3
10	Wy.		WI			+0.056			+0.28	I	4.9	2½
13	An.		WI			+0.022			+0.67	I	4.9	2½
Mean		1913.69				+0.028			+0.31			
Corr						−0.081			−0.23			

47 H. Cephei

				h	m	s	°	′	″			
				2	54	4.680	+79	3	50.93			
1912												
Jan. 10	Hd.		EII			+0.03			+0.48	0	5.0	3
21	Hd.		WII			−0.16			+0.23	0	5.5	--
22	Fn.		WII			−0.05			+0.09	D	6.0	--
23	Fn.		EII			+0.11			+0.16	0	---	3½
1915												
Sept. 28	Hd.		EI			−0.10			+0.54	D	6.0	3
29	Fn.		EI			−0.24			+0.27	0	5.5	2½
Oct. 12	Fn.		WI			−0.25			+0.29	0	6.0	2½
21	Fn.		WI			0.00			−0.11	0	6.0	3
Mean		1913.91				−0.082			+0.24			
Corr						−0.081			−0.37			

47 H. Cephei s. p.

				h	m	s	°	′	″			
				2	54	4.682	+79	3	50.93			
1913												
Apr. 30	R.		EII			−0.02			−0.82	0	---	5
May 1	Hd.		EII			−0.11			−1.39	0	6.0	3½
2	Fn.		EII			−0.09			−1.04	0	---	3
20	Fn.		WII			−0.17			−0.60	0	6.0	3
31	R.		WII			+0.08			−1.02	0	6.0	4
1914												
Apr. 17	Wy.		EI			+0.06			−1.71	0	---	3
21	Hd.		EI			−0.14			−1.44	0	---	3
May 6	Fn.		WI			−0.10			−0.77	0	6.5	3
16	Fn.		WI			+0.07			−0.89	D	6.0	3
Mean		1913.79				−0.047			−1.08			
Corr						−0.081			+0.49			

θ Eridani [1]

				h	m	s	°	′	″			
				2	54	-----	−40	39	53.78			
1912												
Feb.	8	Hd.	EII			-----			+0.5	0	---	5
	9	Fn.	EII			-----			+1.6	0	---	5
1913												
Jan.	26	Hd.	EII			-----			−0.9	0	---	4
	30	Hd.	WII			-----			−0.8	0	---	4
Feb.	1	R.	WII			-----			+1.5	0	---	--
	2	R.	WII			-----			−1.2	0	---	--
	5	Hd.	WII			-----			+0.7	0	---	4
	6	Hd.	WII			-----			+0.9	0	---	5
	7	R.	WII			-----			−1.6	0	---	--
	8	R.	WII			-----			−0.4	0	---	--
Dec.	19	R.	WI			-----			−0.1	0	---	--
1914												
Nov.	23	Fn.	EI			-----			−0.9	0	---	4½
1915												
Jan.	14	Hd.	WI			-----			−0.9	0	---	4
	15	Fn.	WI			-----			−0.6	0	---	4½
	29	Wy.	EI			-----			+0.6	0	---	4
Nov.	30	Fn.	EI			-----			+2.8	0	---	5
Dec.	6	Fn.	WI			-----			+1.4	0	---	4
1916												
Jan.	4	Fn.	EI			-----			+0.5	0	---	4½
	8	Hd.	EI			-----			+1.5	0	---	4½
	14	Wy.	EI			-----			[+5.6]	0	---	5
	23	Fn.	EI			-----			+1.6	0	---	3½
Mean		1914.15				-----			+0.31			
Corr						-----			+0.36			

Lacaille 946

				h	m	s	°	′	″			
1912												
Nov.	9	Fn.	WII	2	55	16.676	−29	15	53.60	0	---	4
	26	Hd.	WII			16.654			53.52	0	6.5	3½
Dec.	12	R.	EII			16.591			[50.89]	0	7.5	2
	14	R.	EII			16.640			53.27	0	7.5	2½
1914												
Oct.	21	An.	EI			16.705			52.43	0	7.0	4
	23	Fn.	EI			16.598			53.05	0	6.0	3
Nov.	4	Hd.	WI			16.600			53.28	0	6.5	3½
	11	An.	WI			16.696			53.15	0	7.0	3½
Mean		1913.87		2	55	16.645	−29	15	53.19			
		1914.00										
Corr						−0.081			+0.02			

α Ceti

				h	m	s	°	′	″			
				2	57	34.387	+3	44	13.31			
						s	″		″			
1911												
June	*20*	*T.*	*EII*			*−0.044*	*−0.43*		*−0.40*	*0*	---	--
	28	*Fn.*	*WII*			-----	*−0.15*		*−0.20*	*0*	---	--
	29	*Hd.*	*WII*			*+0.061*	*+0.11*		*+0.09*	*0*	---	--
	30	*T.*	*WII*			-----	*−0.24*		*−0.32*	*0*	---	--
July	*4*	*R.*	*EII*			*+0.087*	*+0.84*		*+0.63*	*0*	---	--
	5	*Fn.*	*EII*			*+0.111*	*−0.05*		*−0.27*	*0*	---	--
	10	*Hd.*	*WII*			-----	*−0.31*		*−0.34*	*0*	---	--
	12	*Fn.*	*WII*			-----	*−0.16*		*−0.21*	*0*	---	--
	17	*Hd.*	*EII*			*+0.049*	*+0.27*		*+0.22*	*0*	---	--
	18	*R.*	*EII*			*+0.047*	*+0.31*		*+0.09*	*0*	---	--
	24	*Hd.*	*EII*			*+0.053*	*+0.22*		*+0.18*	*0*	---	*3*
	26	*Fn.*	*WII*			*+0.077*	*+0.54*		*+0.39*	*0*	---	--
	28	*R.*	*WII*			*+0.065*	*+0.27*		*+0.23*	*0*	---	--
	30	*Fn.*	*WII*			*+0.067*	*+0.12*		*+0.16*	*0*	---	--
Nov.	7	R.	EII			+0.050			−0.37	II	2.6	2
	11	R.	EII			+0.066			----	0	---	3
	13	Fn.	EII			+0.060			−0.71	0	---	2
	15	Fn.	EII			+0.086			−0.03	I	2.4	2
	18	R.	EII			+0.092			----	II	2.6	2
	22	Hd.	EII			+0.039			+0.51	I	2.9	2
	25	Hd.	WII			+0.055			+0.43	I	2.4	3
	30	R.	WII			+0.097			−0.24	II	2.6	4
Dec.	2	R.	WII			+0.073			−0.03	I	---	2½
	5	Hd.	WII			+0.045			+0.04	II	2.3	3
1911						s	″		″			
Dec.	6	Hd.	WII			+0.054			+0.25	I	2.4	1
	17	R.	EII			+0.064			----	II	---	3
	19	Hd.	EII			+0.030			+0.12	I	2.4	2
	25	R.	EII			+0.069			----	0	---	3
	27	R.	EII			+0.085			----	II	2.1	2½
1912												
Jan.	16	R.	WII			+0.086			----	II	2.1	2½
	19	Fn.	WII			+0.058			----	I	2.3	2
Oct.	4	R.	EII			+0.058			+0.54	II	2.6	2
	7	R.	WII			+0.030			+0.52	II	2.6	2½
	9	R.	WII			+0.020			−0.48	II	2.6	1½
	14	Fn.	WII			+0.071			+0.66	I	2.4	2½
	15	R.	WII			+0.047			+0.28	II	---	4
	25	Fn.	EII			+0.050			+0.92	I	2.5	2
	26	R.	EII			+0.038			+0.79	II	1.6	3½
	29	R.	EII			+0.030			+0.67	I	---	5
	31	R.	EII			+0.036			+0.13	II	2.1	1½
Nov.	4	R.	WII			+0.009			+0.41	I	3.4	4
	11	R.	EII			+0.069			−0.50	I	---	5
	12	R.	EII			+0.063			----	II	2.1	--
Dec.	13	Hd.	EII			+0.068			----	I	2.9	3
	19	Hd.	EII			+0.052			+0.15	I	2.7	2½
1913												
May	*30*	*R.*	*WII*			*+0.023*	*−0.40*		*−0.31*	*0*	---	--
June	*1*	*Hd.*	*WII*			*+0.072*	-----		-----	*0*	---	*3*
	9	*R.*	*WII*			*+0.096*	*−0.38*		*−0.29*	*0*	---	*5*
	11	*Hd.*	*EII*			*+0.074*	*−0.34*		*−0.20*	*0*	---	*3*
	15	*Hd.*	*EII*			-----	*−1.04*		*−0.99*	*0*	---	*3½*
	26	*Fn.*	*EII*			-----	*+0.21*		*+0.14*	*0*	---	*3½*
	30	*Fn.*	*EII*			*+0.055*	*−0.08*		*−0.19*	*0*	---	*3½*
July	*1*	*Hd.*	*EII*			-----	*−1.14*		*−1.18*	*0*	---	*3*
	2	*R.*	*EII*			*+0.028*	*−0.36*		*−0.44*	*0*	---	*5*
	7	*Fn.*	*WII*			*+0.123*	*+0.07*		*−0.01*	*0*	---	*3½*
Nov.	4	R.	EI			+0.059			−0.19	II	2.6	3
Dec.	5	Fn.	EI			+0.051			+0.30	I	2.4	3½
	11	Fn.	EI			+0.035			+0.19	I	2.4	2½
	18	Fn.	WI			+0.065			+0.49	I	2.4	2½
	20	Hd.	WI			+0.033			+0.12	0	---	3
	22	Fn.	WI			+0.047			+1.08	I	2.4	2½
	26	Hd.	WI			+0.061			−0.15	I	2.9	3
	29	Fn.	WI			+0.038			−0.15	I	2.4	1½
1914												
Jan.	7	Hd.	EI			+0.078			----	I	2.9	2
	8	R.	EI			+0.093			−0.02	I	---	3
	10	Hd.	EI			+0.059			+0.44	I	3.4	3
	12	R.	EI			+0.064			----	I	---	3½
	13	Wy.	EI			+0.068			+0.33	I	3.9	3
	14	Hd.	EI			+0.058			+0.25	0	---	2
	25	Fn.	WI			+0.085			+0.58	I	2.9	2
	27	Fn.	WI			+0.067			−0.10	I	2.9	3½
June	*15*	*Hd.*	*EI*			*+0.115*	*−0.18*		*+0.01*	*0*	---	*3*
	16	*Wy.*	*EI*			*+0.101*	*+0.80*		*+0.93*	*0*	---	*4*
	17	*Fn.*	*EI*			-----	*−0.91*		*−1.00*	*0*	---	*3½*
	23	*Wy.*	*WI*			*+0.062*	*−1.15*		*−1.14*	*0*	---	*3*
	28	*Fn.*	*WI*			*+0.086*	*−0.83*		*−0.86*	*0*	---	*3½*
Oct.	28	An.	EI			+0.088			----	I	2.9	3
	31	An.	EI			+0.081			----	II	3.1	3
Nov.	5	Fn.	WI			+0.068			+0.49	I	2.4	2
	6	Wy.	WI			+0.054			----	I	2.9	2½
	24	Hd.	EI			+0.039			+0.10	I	---	3
	26	Wy.	EI			+0.047			----	I	2.9	3
	28	Wy.	EI			+0.084			−0.04	0	---	3
Dec.	3	Fn.	WI			+0.043			----	0	---	2½
	12	An.	WI			+0.079			----	II	3.6	3
	16	An.	WI			+0.043			----	0	---	2½
	17	Fn.	WI			+0.052			----	I	2.4	2
	21	Fn.	WI			+0.087			----	I	---	4
	22	Wy.	WI			+0.079			----	I	---	--
	30	An.	EI			+0.093			----	0	---	4½
	31	Fn.	EI			+0.036			----	0	---	--
1915												
Jan.	4	Hd.	EI			+0.024			----	I	2.9	2
	7	Hd.	EI			+0.028			−0.41	I	2.9	3
	8	Wy.	EI			+0.054			----	0	---	3
	9	An.	EI			+0.065			−0.25	II	3.6	2½
	14	Hd.	WI			+0.068			+0.33	II	3.1	2½
	15	Fn.	WI			+0.056			−0.24	I	3.9	3

[1] Double; pr. component observed.

				s	″	″				
1915										
Jan.	21	Wy.	EI	+0.066		----	I	3	4	3½
	26	An.	EI	+0.054		−0.11	I	---		3
June	*4*	*Hd.*	*WI*	-----	*−0.65*	*−0.57*	*0*	---		*3*
	7	*Hd.*	*EI*	*+0.046*	*−0.73*	*−0.63*	*0*	---		*3*
	8	*An.*	*EI*	*+0.028*	*−0.29*	*−0.21*	*0*	---		*3½*
	9	*Fn.*	*EI*	*+0.008*	----	----	*0*	---		*3½*
	10	*Hd.*	*WI*	-----	*−0.63*	*−0.61*	*0*	---		*3*
	17	*Hd.*	*WI*	*+0.078*	*−0.07*	*0.00*	*0*	---		*3½*
	22	*An.*	*EI*	-----	*−0.30*	*−0.25*	*0*	---		*3½*
July	*2*	*An.*	*WI*	-----	*−0.36*	*−0.54*	*0*	---		*3½*
Oct.	25	Wy.	WI	+0.054		+0.16	II	2	6	2½
	27	Fn.	WI	+0.070		−0.18	I	2	9	3
	30	Fn.	EI	+0.052		+0.50	I	2	9	2½
Nov.	1	Hd.	EI	+0.046		−0.07	I	2	9	3½
	3	Wy.	EI	+0.036		−0.77	I	2	9	3
	5	Fn.	EI	+0.078		+0.75	I	2	9	2½
	7	Hd.	EI	+0.047		−0.20	II	2	6	2
	24	Hd.	EI	+0.054		+0.48	II	3	1	2
	30	Fn.	EI	+0.040		+0.01	I	2	4	2
Dec.	4	Hd.	EI	+0.087		+0.17	I	2	9	3
	6	Fn.	WI	+0.036		−0.45	I	2	4	2½
	7	Wy.	WI	+0.047		+0.62	I	---		3
	10	Wy.	WI	+0.068		----	I	2	9	2½
	21	Fn.	WI	+0.068		----	I	2	9	2
	27	Wy.	WI	+0.073		----	I	3	4	3
1916										
Jan.	3	Hd.	EI	+0.042		----	I	2	9	2½
	4	Fn.	EI	+0.043		+0.37	I	2	9	3
June	*1*	*Hd.*	*EI*	*+0.097*	*+0.05*	*+0.05*	*0*	---		*3½*
	11	*Wy.*	*EI*	*+0.045*	----	----	*0*	---		*4*
	12	*Fn.*	*EI*	*+0.140*	*−0.42*	*−0.33*	*0*	---		*3½*
	19	*Hd.*	*WI*	*+0.083*	*−0.42*	*−0.38*	*0*	---		*3*
	25	*Hd.*	*WI*	*+0.056*	*+0.07*	*+0.03*	*0*	---		*3*
July	*20*	*Wy.*	*EI*	-----	*+0.20*	*+0.12*	*0*	---		*3½*
Sept.	7	Wy.	WI	+0.068		−1.69	I	3	9	3½
Dec.	7	Fn.	EI	+0.074		+0.52	I	2	9	2½
	29	Hd.	WI	+0.091		−0.62	I	2	9	3
1917										
Jan.	2	Wy.	WI	+0.052		−1.63	I	3	9	3
	8	Wy.	EI	+0.041		+0.12	I	3	4	3
	18	Fn.	EI	+0.028		−0.54	0	---		3½
	19	Hd.	EI	+0.049		----	II	2	6	2
Mar.	*12*	*Hd.*	*EI*	*+0.065*	*−0.73*	*−0.63*	*0*	---		*3*
	15	*Wy.*	*EI*	*+0.014*	*−0.14*	*−0.02*	*0*	---		*3½*
	20	*Hd.*	*EI*	*+0.079*	*−0.07*	*−0.01*	*0*	---		*3½*
	22	*Fn.*	*EI*	*+0.062*	*−0.61*	*−0.52*	*0*	---		*3½*
	30	*Fn.*	*WI*	*+0.122*	*−0.68*	*−0.51*	*0*	---		*3½*
Apr.	*3*	*Hd.*	*WI*	*+0.044*	*−0.12*	*−0.02*	*0*	---		*3½*
June	*18*	*Fn.*	*WII*	*+0.069*	----	----	*0*	---		*3½*
	21	*Fn.*	*WII*	*+0.098*	*+0.02*	*+0.05*	*0*	---		*3½*
	24	*Wy.*	*WII*	*+0.012*	*−0.19*	*−0.17*	*0*	---		*4*
	27	*Wy.*	*EII*	-----	*+0.31*	*+0.32*	*0*	---		*3½*
July	*1*	*Hd.*	*EII*	-----	*+0.09*	*−0.05*	*0*	---		*3*
	4	*Hd.*	*EII*	-----	*−0.07*	*−0.14*	*0*	---		*3½*
	29	*Wy.*	*EII*	*+0.008*	*+0.45*	*+0.37*	*0*	---		*3*
	30	*Fn.*	*EII*	*+0.028*	*−0.40*	*−0.41*	*0*	---		*3*
Aug.	*5*	*Hd.*	*WII*	*+0.081*	*+0.34*	*+0.36*	*0*	---		*3*
	12	*Fn.*	*WII*	*+0.030*	*−0.19*	*−0.18*	*0*	---		*2½*
	13	*Hd.*	*WII*	*+0.039*	*+0.30*	*+0.33*	*0*	---		*2*
	17	*Wy.*	*WII*	*+0.084*	*+0.63*	*+0.69*	*0*	---		*2½*
Dec.	6	Fn.	WII	+0.097		−0.37	I	2	9	2
1918										
Jan.	8	Hd.	EII	+0.015		+0.09	I	2	9	3
	19	Wy.	WII	+0.073		+1.26	II	2	1	2½
Feb.	8	Wy.	WII	+0.110		−0.24	I	3	4	3
Mar.	*7*	*Fn.*	*EII*	*+0.066*	*+0.27*	*+0.46*	*0*	---		*3½*
	8	*Wy.*	*EII*	*+0.080*	*−0.13*	*−0.02*	*0*	---		*3½*
June	*23*	*Wy.*	*WII*	*+0.030*	*+0.57*	*+0.57*	*0*	---		*3½*
July	*1*	*Hd.*	*WII*	*+0.045*	*−0.11*	*−0.10*	*0*	---		*3*
	8	*Hd.*	*EII*	*+0.093*	*−0.01*	*−0.17*	*0*	---		*3½*
	15	*Hd.*	*EII*	*+0.091*	*−0.27*	*−0.45*	*0*	---		*3½*
	17	*Wy.*	*EII*	*+0.057*	*+0.61*	*+0.52*	*0*	---		*3½*
	22	*Fn.*	*EII*	*+0.069*	*+0.17*	*+0.12*	*0*	---		*3*
Aug.	*11*	*Fn.*	*WII*	*+0.036*	*−0.03*	*−0.01*	*0*	---		*2½*
Mean		1914.41		+0.059		+0.08				
		1914.46								
Corr				−0.081		−0.19				

Lalande 5647

				h	m	s	°	′	″			
1911												
Nov.	10	Hd.	EII	2	57	54.505	−18	33	41.87	0	7.8	4
	16	R.	EII			54.461			40.59	0	7.5	2
Dec.	1	R.	WII			54.455			40.97	0	---	1½
	4	Hd.	WII			54.410			41.20	0	7.5	4
1915												
Sept.	22	Wy.	EI			54.415			40.51	0	7.5	3½
	24	Hd.	EI			54.410			40.43	0	7.5	3
Oct.	9	Hd.	WI			54.470			41.29	0	7.5	3
	11	Hd.	WI			54.414			41.41	0	7.5	2½
Mean		1913.82		2	57	54.442	−18	33	41.03			
Corr						−0.081			−0.09			

γ Persei

				h	m	s	°	′	″			
				2	58	16.249	+53	9	16.90			
1912												
Sept.	30	R.	EII			−0.069			−0.21	I	---	3
Oct.	1	R.	EII			−0.075			+0.26	II	2	6 2
	8	R.	WII			−0.031			+0.48	II	2	6 1½
	10	R.	WII			−0.013			−0.04	II	2	6 1
1914												
Jan.	22	Hd.	WI			+0.020			+0.83	I	---	2
	26	R.	WI			−0.036			+1.22	I	2	9 3
Feb.	3	Wy.	EI			−0.058			−0.11	0	---	3
	4	Hd.	EI			−0.035			−0.60	I	2	9 2
Mean		1913.42				−0.037			+0.23			
Corr						−0.081			−0.30			

τ^3 Eridani

				h	m	s	°	′	″			
				2	58	25.396	−23	58	36.43			
1912												
Oct.	28	Fn.	EII			+0.061			−0.72	0	5.0	3½
Nov.	2	R.	WII			+0.102			−0.42	I	4.4	3½
	5	Fn.	WII			+0.067			−0.99	0	---	3½
	12	R.	EII			+0.001			−1.23	0	---	2½
1913												
Nov.	24	Fn.	WI			+0.060			−0.79	0	---	4
Dec.	3	Hd.	EI			+0.074			−0.20	0	---	3½
	15	Fn.	WI			−0.027			−0.14	0	5.0	3
1914												
Jan.	5	R.	EI			+0.118			−0.81	I	5.0	3
Mean		1913.40				+0.057			−0.66			
Corr						−0.081			−0.04			

ρ Persei

				h	m	s	°	′	″			
				2	59	24.326	+38	29	30.98			
						s		″	″			
1911												
Dec.	25	R.	EII			+0.028			+0.38	I	---	2
	27	R.	EII			+0.018			+0.26	I	2	9 2½
1912												
Jan.	13	R.	WII			−0.034			+0.84	I	2	9 2½
	15	Fn.	WII			−0.011			+0.56	I	3	3 1½
1914												
Oct.	28	An.	EI			−0.070			+0.49	I	4	4 3
Nov.	2	Fn.	WI			−0.007			+0.89	I	3	9 2½
	3	An.	WI			+0.042			+1.09	I	4	9 3
	17	Wy.	EI			+0.060			+0.45	I	3	9 2½
1915												
Jan.	5	Wy.	EI			+0.058			----	I	3	4 2
Dec.	10	Wy.	WI			+0.021			----	I	3	4 2
	21	Fn.	WI			+0.031			----	I	3	9 2
	27	Wy.	WI			+0.012			----	I	3	9 3
1916												
Jan.	3	Hd.	EI			+0.007			----	I	3	4 2
1917												
Jan.	16	Hd.	EI			−0.040			----	I	3	4 3
Apr.	*7*	*Hd.*	*WI*			*+0.048*	----		----	*0*	---	*3½*
Mean		1914.53				+0.008			+0.62			
		1913.43										
Corr						−0.081			−0.27			

β Persei

			h	m	s	°	′	″				
			3	2	18.478	+40	36	34.31				
1912					s			″				
Nov. 30	Hd.	WII			+0.055			−0.66	I	1.9	1	
Dec. 3	R.	WII			+0.024			−0.01	II	2.1	1	½
13	Hd.	EII			+0.027			+0.22	II	2.1	2	
14	R.	EII			+0.029			+0.15	I	3.9	2	
1913												
Nov. 21	R.	WI			+0.041			+0.32	II	2.6	1	
22	Hd.	WI			+0.027			+0.17	II	2.1	2	
Dec. 4	Fn.	EI			+0.015			+0.72	I	2.4	3	
5	Fn.	EI			+0.054			0.00	I	1.9	3	
1914												
Nov. 26	Wy.	EI			−0.030			----	I	2.9	3	
Dec. 21	Fn.	WI			+0.039			----	I	2.9	3	
1915												
Jan. 5	Wy.	EI			+0.030			----	II	2.6	2	
8	Wy.	EI			+0.063			----	0	---	2	½
Nov. 5	Fn.	EI			+0.096			----	I	2.9	2	
Dec. 10	Wy.	WI			+0.031			----	II	2.1	2	
21	Fn.	WI			+0.003			----	I	3.4	2	
27	Wy.	WI			+0.028			----	I	3.4	3	
1916												
Jan. 3	Hd.	EI			+0.052			----	II	2.6	2	
May 31	*Fn.*	*EI*			*+0.101*			----	*0*	---	*3*	½
June 1	*Hd.*	*EI*			*−0.029*	*−0.43*		*−0.43*	*0*	---	*3*	
12	*Fn.*	*EI*			*+0.108*	*−0.02*		*−0.02*	*0*	---	*3*	½
21	*Fn.*	*WI*			*+0.016*	*−0.41*		*−0.41*	*0*	---	*3*	½
25	*Hd.*	*WI*			*+0.033*	*−0.57*		*−0.57*	*0*	---	*3*	
July 5	*Wy.*	*EI*			*+0.010*	*−0.50*		*−0.50*	*0*	---	*3*	½
Sept. 7	Wy.	WI			+0.024			−0.74	I	3.4	3	½
Dec. 7	Fn.	EI			+0.095			+0.22	I	2.9	3	
1917												
Jan. 2	Wy.	WI			+0.083			−0.13	I	2.9	2	½
8	Wy.	EI			+0.043			−0.68	I	3.4	3	
16	Hd.	EI			−0.039			----	II	2.6	3	
Mar. 15	*Wy.*	*EI*			*−0.060*	*+0.28*		*+0.28*	*0*	---	*3*	
19	*Fn.*	*EI*			*+0.128*	----		----	*0*	---	*3*	½
20	*Hd.*	*EI*			*+0.138*	*+0.42*		*+0.42*	*0*	---	*3*	
22	*Fn.*	*EI*			*+0.019*	*−0.13*		*−0.13*	*0*	---	*3*	½
Apr. 3	*Hd.*	*WI*			*−0.089*	*−0.21*		*−0.21*	*0*	---	*3*	½
7	*Hd.*	*WI*			*−0.087*	----		----	*0*	---	*3*	½
June 20	*Wy.*	*WII*			*+0.047*	*+0.65*		*+0.65*	*0*	---	*3*	½
21	*Fn.*	*WII*			*+0.091*	*+0.51*		*+0.51*	*0*	---	*3*	½
24	*Wy.*	*WII*			*−0.016*	*+0.08*		*+0.08*	*0*	---	*3*	
25	*Hd.*	*WII*			*+0.103*	*+0.43*		*+0.43*	*0*	---	*3*	
27	*Wy.*	*EII*			-----	*−0.25*		*−0.25*	*0*	---	*3*	
28	*Hd.*	*EII*			-----	*−0.22*		*−0.21*	*0*	---	*3*	½
July 1	*Hd.*	*EII*			-----	*−0.18*		*−0.17*	*0*	---	*3*	½
4	*Hd.*	*EII*			-----	*−0.14*		*−0.14*	*0*	---	*3*	½
29	*Wy.*	*EII*			*−0.004*	*−0.20*		*−0.20*	*0*	---	*3*	
30	*Fn.*	*EII*			*−0.001*	*+0.17*		*+0.17*	*0*	---	*3*	
Aug. 5	*Hd.*	*WII*			*+0.053*	*+0.82*		*+0.82*	*0*	---	*2*	
12	*Fn.*	*WII*			*+0.011*	*+0.61*		*+0.61*	*0*	---	*2*	
17	*Wy.*	*WII*			*+0.103*	*+0.78*		*+0.78*	*II*	---	*2*	
Dec. 6	Fn.	WII			+0.007			+0.89	I	1.9	2	
1918												
Jan. 8	Hd.	EII			+0.042			+0.07	I	3.4	3	
10	Fn.	EII			+0.050			+0.58	I	2.9	3	
21	Fn.	WII			+0.032			+1.43	I	3.9	2	
Feb. 8	Wy.	WII			+0.015			+0.75	0	---	3	½
28	*Wy.*	*EII*			*+0.087*	*+0.06*		*+0.06*	*0*	---	*3*	½
Mar. 7	*Fn.*	*EII*			*+0.073*	*+0.76*		*+0.75*	*0*	---	*3*	
8	*Wy.*	*EII*			*+0.096*	*−0.44*		*−0.44*	*0*	---	*3*	½
18	*Wy.*	*WII*			*+0.003*	*+0.18*		*+0.18*	*0*	---	*4*	
28	*Fn.*	*WII*			*+0.003*	*+0.39*		*+0.38*	*0*	---	*3*	½
June 23	*Wy.*	*WII*			*+0.054*	*−0.13*		*−0.13*	*0*	---	*4*	
27	*Hd.*	*WII*			*+0.146*	*+0.37*		*+0.37*	*0*	---	*3*	½
July 1	*Hd.*	*WII*			*+0.060*	*−0.42*		*−0.42*	*0*	---	*3*	
8	*Hd.*	*EII*			*+0.112*	*+0.06*		*+0.07*	*0*	---	*3*	½
15	*Hd.*	*EII*			*−0.011*	*+0.39*		*+0.40*	*0*	---	*3*	½
22	*Fn.*	*EII*			*+0.061*	*+0.01*		*+0.01*	*0*	---	*3*	½
24	*Fn.*	*EII*			*+0.040*	*−0.11*		*−0.11*	*0*	---	*2*	½
Aug. 11	*Fn.*	*WII*			*+0.053*	*+0.74*		*+0.74*	*0*	---	*2*	
Mean------	1915.62				+0.035			+0.19				
	1915.60											
Corr------					−0.081			−0.27				

ι Persei

			h	m	s	°	′	″				
1911			3	2	34.206	+49	16	12.65	I	3.9	1	
Nov. 22	Hd.	EII			34.147			12.87	I	3.9	3	
Dec. 5	Hd.	WII			34.195			12.55	I	3.9	1	
6	Hd.	WII			34.203			12.73	I	3.9	2	
19	Hd.	EII										
1915												
Sept. 28	Hd.	EI			34.683			12.39	I	4.4	2	
29	Fn.	EI			34.629			12.95	I	3.9	2	½
Oct. 12	Fn.	WI			34.674			12.36	I	3.9	2	½
21	Fn.	WI			34.671			12.84	0	5.0	3	
Mean------	1913.85		3	2	34.426	+49	16	12.67				
Corr------					−0.081			−0.29				

Weisse$_1$ II 1062

			h	m	s	°	′	″				
1912			3	2	39.391	−2	8	57.32	0	6.9	3	
Nov. 9	Fn.	WII			39.335			56.60	0	7.0	2	½
22	Fn.	EII			39.369			57.07	0	7.2	3	½
25	Fn.	WII			39.344			56.62	0	7.5	2	
Dec. 12	R.	EII										
1913												
Dec. 26	Hd.	WI			39.341			55.79	0	7.0	3	
27	Wy.	WI			39.332			55.89	0	7.4	2	
29	Fn.	WI			39.331			56.83	0	7.0	2	
1914												
Jan. 7	Hd.	EI			39.330			56.68	0	7.0	2	
10	Hd.	EI			39.355			56.46	0	---	3	
Mean------	1913.51		3	2	39.348	−2	8	56.58				
Corr------					−0.081			−0.17				

Weisse$_1$ II 1077

			h	m	s	°	′	″				
1911			3	3	3.641	−14	6	5.82	0	---	3	
Nov. 7	R.	EII			3.640			6.10	0	6.5	3	½
10	Hd.	EII			3.622			6.20	0	6.6	3	
25	Hd.	WII			3.736			6.02	0	6.5	4	½
30	R.	WII										
1915												
Oct. 22	Hd.	WI			3.668			7.61	0	7.5	3	½
23	Wy.	WI			3.606			7.75	0	7.0	3	½
29	Hd.	EI			3.612			7.90	0	7.0	3	½
30	Fn.	EI			3.608			7.56	0	7.0	3	
Mean------	1913.85		3	3	3.642	−14	6	6.87				
Corr------					−0.081			−0.12				

Bradley 440

			h	m	s	°	′	″				
1912			3	3	14.886	+18	27	0.32	0	6.3	1	½
Oct. 16	Fn.	WII			14.895			0.81	0	6.0	3	
26	R.	EII			14.908			1.26	0	6.0	5	
29	R.	EII			14.945			0.73	0	6.5	2	½
Nov. 2	R.	WII										
1914												
Jan. 21	Hd.	WI			14.945			0.23	0	6.0	3	
22	Hd.	WI			14.941			0.60	0	7.0	2	
Feb. 4	Hd.	EI			14.905			0.38	0	6.5	2	
7	Hd.	EI			14.905			0.25	0	6.5	3	
Mean------	1913.45		3	3	14.916	+18	27	0.57				
Corr------					−0.081			−0.23				

Bradley 441

			h	m	s	°	′	″				
1911			3	4	11.681	+28	44	2.81	0	5.9	2	
Oct. 26	Fn.	WII			11.676			1.60	0	5.8	2	
Nov. 2	Fn.	EII			11.641			1.62	0	6.0	1	
3	Hd.	EII			11.679			2.73	0	6.5	1	
Dec. 1	R.	WII										
1915												
Sept. 22	Wy.	EI			11.696			2.11	0	5.7	3	
24	Hd.	EI			11.659			2.45	0	6.0	3	
Oct. 9	Hd.	WI			11.670			1.80	0	6.0	2	
11	Hd.	WI			11.630			1.86	0	6.0	2	
Mean------	1913.80		3	4	11.666	+28	44	2.12				
Corr------					--0.081			−0.25				

Oeltzen 3501

			h	m	s	°	′	″			
1912											
Sept. 30	R.	EII	3	4	27.128	+52	48	5.30	0	---	2½
Oct. 1	R.	EII			27.111			5.42	0	7.0	1½
7	R.	WII			27.173			5.58	0	7.5	2½
8	R.	WII			27.165			5.80	0	---	1½
1913											
Nov. 24	Fn.	WI			27.265			5.99	0	6.5	2½
Dec. 3	Hd.	EI			27.131			5.62	0	7.5	2
9	R.	EI			27.170			4.37	0	7.5	2
15	Fn.	WI			27.189			5.20	0	7.0	2½
Mean------	1913.34		3	4	27.166	+52	48	5.41			
Corr----------					−0.081			−0.30			

Weisse$_2$ II 1461

			h	m	s	°	′	″			
1912											
Oct. 4	R.	EII	3	5	20.231	+31	53	7.45	0	7.5	2½
10	R.	WII			20.226			7.09	0	7.0	1½
15	R.	WII			20.270			7.84	0	7.0	2
25	Fn.	EII			20.260			----	0	7.2	2
1913											
Dec. 11	Fn.	EI			20.210			6.93	0	7.5	2½
13	Hd.	EI			20.251			6.95	0	7.0	2
18	Fn.	WI			20.267			7.27	0	7.0	2½
19	R.	WI			20.283			7.77	0	6.5	2
Mean------	1913.37		3	5	20.250	+31	53	7.33			
	1913.45										
Corr----------					−0.081			−0.25			

B. D.+47° 779

			h	m	s	°	′	″			
1912											
Oct. 31	R.	EII	3	6	12.479	+47	23	18.10	0	6.5	2
Nov. 4	R.	WII			12.476			18.60	0	6.5	3½
12	R.	EII			12.531			18.27	0	---	1½
1913											
Dec. 20	Hd.	WI			12.535			18.20	0	6.5	2
22	Fn.	WI			12.513			[15.83]	0	6.5	2½
1914											
Jan. 5	R.	EI			12.497			17.25	0	6.0	2
8	R.	EI			12.513			18.08	0	---	2½
Mean------	1913.51		3	6	12.506	+47	23	18.08			
	1913.43										
Corr----------					−0.081			−0.28			

Groombridge 621

			h	m	s	°	′	″			
1911											
Nov. 13	Fn.	EII	3	6	12.704	+42	2	11.69	0	6.5	2
15	Fn.	EII			12.645			11.04	0	6.4	2
Dec. 2	R.	WII			12.673			11.73	0	---	1½
4	Hd.	WII			12.694			11.31	0	6.0	2
1915											
Nov. 5	Fn.	EI			12.710			11.06	0	6.5	2
7	Hd.	EI			12.656			10.92	0	6.0	2
9	Wy.	WI			12.686			11.48	0	6.5	2
10	Hd.	WI			12.647			11.95	0	6.5	2
Mean------	1913.87		3	6	12.677	+42	2	11.40			
Corr----------					−0.081			−0.27			

δ Arietis

			h	m	s	°	′	″				
			3	6	28.849	+19	23	12.90				
1911												
Nov. 16	R.	EII			+0.028			−0.49	I	3.9	1	½
18	R.	EII			+0.012			−0.79	I	3.9	2	½
Dec. 7	Hd.	WII			+0.019			−0.18	I	3.9	1	
1912												
Jan. 19	Fn.	WII			+0.005			+0.12	I	4.3	2	½
1915												
Oct. 25	Wy.	WI			+0.025			+0.36	I	4.4	2	½
27	Fn.	WI			−0.024			−0.29	0	4.5	2	½
1915					s			″				
Nov. 1	Hd.	EI			+0.064			−0.69	I	4.4	3	½
3	Wy.	EI			+0.003			+0.07	I	4.4	2	½
Mean------	1913.88				+0.016			−0.24				
Corr----------					−0.081			−0.23				

Lalande 5932

			h	m	s	°	′	″			
1912											
Nov. 26	Hd.	WII	3	6	37.198	−20	27	8.91	0	---	3
30	Hd.	WII			37.161			8.64	0	7.5	2
Dec. 13	Hd.	EII			37.163			8.72	0	8.2	3
14	R.	EII			37.151			8.49	0	---	2½
1914											
Jan. 25	Fn.	WI			37.203			8.30	0	7.5	3½
Nov. 17	Wy.	EI			37.246			8.53	0	7.5	3½
23	Fn.	EI			37.163			8.73	0	7.5	3
Dec. 17	Fn.	WI			37.264			10.40	0	7.5	2½
22	Wy.	WI			37.264			9.28	0	7.5	3½
Mean------	1913.95		3	6	37.201	−20	27	8.89			
Corr----------					−0.081			−0.08			

Piazzi III 6

			h	m	s	°	′	″			
1911											
Nov. 19	Fn.	EII	3	7	39.728	+6	19	21.26	0	6.2	2½
21	Fn.	EII			39.744			20.93	0	6.2	3
Dec. 5	Hd.	WII			39.771			20.66	0	6.0	3
6	Hd.	WII			39.754			20.63	0	5.5	1
1915											
Sept. 28	Hd.	EI			39.756			20.54	0	6.0	3
Oct. 11	Hd.	WI			39.731			19.87	0	6.0	2
12	Fn.	WI			39.720			19.93	0	6.0	2½
28	Wy.	EI			39.724			20.46	0	6.0	3
Mean------	1913.84		3	7	39.741	+6	19	20.54			
Corr----------					−0.081			−0.19			

12 Eridani [1]

			h	m	s	°	′	″				
			3	8	14.922	−29	20	26.93				
1911												
Dec. 27	R.	EII			+0.039			+0.37	I	---	4	
1912												
Jan. 9	R.	EII			+0.070			+1.71	0	---	5	
15	Fn.	WII			+0.090			+0.19	I	3.8	3	½
16	R.	WII			+0.125			+1.01	0	---	4	½
1915												
Oct. 21	Fn.	WI			+0.077			−0.40	0	5.0	3	½
22	Hd.	WI			+0.218			−0.83	I	4.4	3	½
29	Hd.	EI			+0.065			−0.33	I	3.9	3	½
30	Fn.	EI			+0.069			+0.21	0	4.5	3	½
Mean------	1913.92				+0.094			+0.24				
Corr----------					−0.081			+0.02				

48 H. Cephei

			h	m	s	°	′	″				
			3	8	51.966	+77	24	18.50				
1911												
Nov. 22	Hd.	EII			+0.24			+0.42	0	---	1	
Dec. 19	Hd.	EII			−0.06			+0.67	0	5.5	2	
1912												
Jan. 21	Hd.	WII			−0.17			+0.40	0	6.0	2	
22	Fn.	WII			−0.05			+0.27	0	5.8	3	½
1914												
Nov. 26	Wy.	EI			+0.05			+0.58	0	5.5	3	
Dec. 3	Fn.	WI			−0.12			+0.09	0	6.0	2	½
12	An.	WI			−0.14			+0.37	0	6.0	3	
1915												
Jan. 4	Hd.	EI			+0.19			−0.40	0	6.0	2	
Mean------	1913.47				−0.008			+0.30				
Corr----------					−0.081			−0.36				

[1] Double; s. fol. component observed.

48 H. Cephei s. p.

			h	m	s	°	′	″			
			3	8	51.970	+77	24	18.48			
1912											
May 27	Fn.	EII			−0.06			−0.84	0	---	3
28	Hd.	WII			+0.09			−1.20	0	5.5	3
30	Fn.	WII			−0.13			−0.74	0	---	3½
June 5	R.	EII			−0.05			+0.85	0	6.5	4
1915											
May 8	Hd.	EI			−0.05			−0.49	0	5.5	4
9	Wy.	EI			+0.07			−0.86	0	6.0	3½
25	Fn.	WI			−0.05			+0.27	0	---	3
June 12	An.	WI			----			−0.04	0	7.0	3
Mean		1913.68			−0.026			−0.38			
		1913.90									
Corr					−0.081			+0.51			

Groombridge 627

			h	m	s	°	′	″			
1912											
Oct. 26	R.	EII	3	8	53.695	+56	48	21.95	0	6.0	2
28	Fn.	EII			53.767			22.37	0	---	3
Nov. 2	R.	WII			53.681			22.14	0	6.0	2
5	Fn.	WII			53.652			21.49	0	6.0	3
9	Fn.	WII			53.720			21.67	0	5.6	2½
1913											
Dec. 26	Hd.	WI			53.838			22.41	0	6.0	3
29	Fn.	WI			53.737			22.29	0	6.0	1½
1914											
Jan. 6	Fn.	EI			53.691			21.73	0	6.0	2
7	Hd.	EI			53.709			22.69	0	7.0	2
Mean		1913.36	3	8	53.721	+56	48	22.08			
Corr					−0.081			−0.31			

ζ Arietis

			h	m	s	°	′	″			
			3	9	43.520	+20	42	40.72			
1911											
Nov. 7	R.	EII			+0.009			−0.04	I	4.4	2
10	Hd.	EII			+0.030			−0.09	0	5.2	3½
25	Hd.	WII			+0.016			+0.51	I	4.4	3
Dec. 1	R.	WII			+0.080			+0.65	0	5.5	1½
1914											
Dec. 23	Hd.	WI			+0.022			+0.24	0	---	3
31	Fn.	EI			+0.050			+0.13	0	---	2
1915											
Jan. 5	Wy.	EI			+0.056			+0.37	I	4.1	2½
10	Wy.	WI			+0.015			+0.43	I	4.9	2
Mean		1913.44			+0.035			+0.28			
Corr					−0.081			−0.23			

Bradley 402

			h	m	s	°	′	″			
1912											
Sept. 30	R.	EII	3	10	49.93	+84	35	-----	0	---	3
Oct. 1	R.	EII			49.97			41.12	0	5.5	2
4	R.	EII			49.90			41.41	0	6.0	3
7	R.	WII			50.01			41.43	0	6.0	2
8	R.	WII			50.37			41.10	0	---	1½
10	R.	WII			50.04			41.03	0	6.0	2
1913											
Nov. 24	Fn.	WI			50.55			40.66	0	6.0	3
Dec. 3	Hd.	EI			49.75			40.95	0	6.5	2
4	Fn.	EI			50.21			40.32	0	6.0	3½
15	Fn.	WI			49.99			40.48	0	6.0	--
Mean		1913.23	3	10	50.072	+84	35	40.94			
		1913.28									
Corr					−0.081			−0.39			

Bradley 402 s. p.

			h	m	s	°	′	″			
1913											
Mar. 31	Fn.	EII	3	10	49.77	+84	35	39.10	0	5.7	2½
Apr. 1	R.	EII			49.80			39.62	0	---	3½
7	Fn.	WII			50.06			39.17	0	5.0	3
8	R.	WII			50.16			39.82	0	5.5	2½
1914											
Mar. 26	Hd.	EI			49.71			40.39	0	6.5	3½
Apr. 3	Fn.	WI			50.12			41.02	0	6.0	3
6	Fn.	WI			50.11			40.53	0	6.5	3½
17	Wy.	EI			50.78			39.49	0	6.0	3
Mean		1913.76	3	10	50.064	+84	35	39.89			
Corr					−0.081			+0.44			

ζ Eridani

			h	m	s	°	′	″			
			3	11	27.639	−9	9	12.37			
1912											
Oct. 5	R.	EII			+0.085			−0.37	I	4.4	3
14	Fn.	WII			+0.087			−0.78	0	5.2	2½
25	Fn.	EII			+0.029			−0.28	0	5.0	3
1913											
Dec. 5	Fn.	EI			+0.044			----	0	5.0	3½
9	R.	EI			+0.068			−1.48	I	4.9	3
11	Fn.	EI			+0.048			−0.67	0	5.5	3
18	Fn.	WI			+0.082			−0.36	0	5.0	3
20	Hd.	WI			+0.059			−0.32	0	6.0	3
1914											
Jan. 13	Wy.	EI			+0.057			−0.18	0	5.0	3
Mean		1913.57			+0.062			−0.56			
		1913.53									
Corr					−0.081			−0.15			

B. D.+38° 690

			h	m	s	°	′	″			
1911											
Nov. 13	Fn.	EII	3	11	55.577	+38	57	11.60	0	---	2
15	Fn.	EII			55.548			10.83	0	6.5	2
Dec. 2	R.	WII			55.522			11.53	0	---	1½
4	Hd.	WII			55.509			11.75	0	6.0	2
1914											
Nov. 23	Fn.	EI			55.536			11.79	0	6.0	1½
24	Hd.	EI			55.514			11.56	0	---	3
Dec. 17	Fn.	WI			55.460			11.44	0	6.0	2
21	Fn.	WI			55.460			12.09	0	6.5	3
1916											
Dec. 7	Fn.	EI			------			10.40	0	6.0	2
28	Fn.	WI			------			10.81	0	6.5	3
29	Hd.	WI			------			11.44	0	6.5	2
1917											
Jan. 8	Wy.	EI			------			10.82	0	7.0	3
Mean		1913.41	3	11	55.516	+38	57	11.34			
		1914.60									
Corr					−0.081			−0.27			

Weisse$_1$ III 172

			h	m	s	°	′	″			
1912											
Oct. 16	Fn.	WII	3	13	18.177	+12	29	41.57	0	8.0	2
29	R.	EII			18.183			41.67	0	7.5	2½
31	R.	EII			18.152			42.17	0	7.5	2
1913											
Dec. 13	Hd.	EI			18.150			41.69	0	7.5	3
26	Hd.	WI			18.193			41.85	0	8.0	3
27	Wy.	WI			18.184			40.62	0	7.5	2½
1914											
Jan. 5	R.	EI			18.161			41.32	0	7.5	2½
21	Hd.	WI			18.174			41.55	0	7.5	3
Mean		1913.56	3	13	18.172	+12	29	41.56			
Corr					−0.081			−0.21			

Paris 3965

				h	m	s	°	′	″			
1912												
Nov.	19	R.	EII	3	14	34.678	−18	53	10.57	0	---	4
	21	R.	EII			34.659			9.97	0	---	2
	22	Fn.	EII			34.638			9.73	0	6.6	3½
	26	Hd.	WII			34.655			10.92	0	6.5	3
	29	Fn.	WII			34.671			9.58	0	5.7	3½
1913												
Dec.	29	Fn.	WI			34.655			10.56	0	6.0	2
	30	Wy.	WI			34.645			10.83	0	7.0	3
1914												
Jan.	6	Fn.	EI			34.640			10.39	0	6.5	3
	7	Hd.	EI			34.636			9.53	0	6.5	3
	22	Hd.	WI			34.644			9.91	0	---	3
Mean			1913.46	3	14	34.652	−18	53	10.20			
Corr						−0.081			−0.09			

κ Ceti

				h	m	s	°	′	″			
1911												
Nov.	19	Fn.	EII	3	14	38.396	+3	2	26.76	0	5.1	2
	21	Fn.	EII			38.401			26.82	0	5.3	2½
	25	Hd.	WII			38.386			26.84	0	5.2	3
	30	R.	WII			38.466			26.20	I	4.4	5
1914												
Nov.	17	Wy.	EI			38.531			27.05	0	5.0	3
	21	Fn.	EI			38.483			26.75	0	5.0	2½
Dec.	3	Fn.	WI			38.495			26.43	0	---	2½
	16	An.	WI			38.542			26.82	0	6.0	2½
Mean			1913.40	3	14	38.462	+3	2	26.71			
Corr						−0.081			−0.19			

Bradley 469

				h	m	s	°	′	″			
1911												
Dec.	5	Hd.	WII	3	15	30.829	−22	5	5.69	I	3.9	--
	6	Hd.	WII			30.875			6.42	I	3.4	1
	19	Hd.	EII			30.846			6.13	I	3.4	3½
	27	R.	EII			30.811			5.95	0	---	3
1914												
Dec.	22	Wy.	WI			30.937			6.76	I	4.9	3½
	23	Hd.	WI			30.935			5.57	I	4.4	3
1915												
Jan.	4	Hd.	EI			30.848			6.75	I	3.9	3
	5	Wy.	EI			30.779			6.68	I	3.9	3
Mean			1913.48	3	15	30.858	−22	5	6.24			
Corr						−0.081			−0.06			

τ Arietis

				h	m	s	°	′	″			
				3	16	1.723	+20	49	23.16			
1912												
Oct.	5	R.	EII			+0.027			+0.15	0	5.5	2
	14	Fn.	WII			−0.001			+0.65	0	5.2	2
	15	R.	WII			+0.020			+0.35	I	4.4	2
	25	Fn.	EII			+0.027			+1.40	0	---	--
1913												
Dec.	9	R.	EI			+0.008			−0.26	I	4.9	2
	11	Fn.	EI			+0.003			+0.25	0	5.0	2
	15	Fn.	WI			−0.034			+0.44	0	5.5	2½
	18	Fn.	WI			+0.010			−0.18	0	5.5	2
Mean			1913.37			+0.008			+0.35			
Corr						−0.081			−0.23			

Piazzi III 27

				h	m	s	°	′	″			
1912												
Jan.	10	Hd.	EII	3	16	50.97	+64	15	54.91	0	6.0	3
	15	Fn.	WII			51.09			54.64	0	5.8	1½
	16	R.	WII			51.01			55.07	0	5.5	2½
	23	Fn.	EII			51.06			54.33	0	---	--
1915												
Oct.	12	Fn.	WI			50.91			55.11	0	6.0	2
	21	Fn.	WI			51.00			55.21	0	6.0	3
	28	Wy.	EI			51.04			55.08	0	6.5	3
	29	Hd.	EI			51.00			55.94	0	5.5	3
Mean			1913.92	3	16	51.010	+64	15	55.04			
Corr						−0.081			−0.33			

α Persei

				h	m	s	°	′	″			
				3	17	53.469	+49	32	29.47			
1912												
Jan.	27	R.	EII			−0.048			+1.38	II	1.1	2½
Feb.	1	Fn.	EII			+0.042			−0.51	I	---	2
	2	Hd.	WII			+0.063			+0.05	II	---	1
	4	Fn.	WII			−0.002			+0.69	I	1.8	2
1915												
Oct.	22	Hd.	WI			−0.011			+0.21	II	2.1	2
	25	Wy.	WI			+0.008			+0.43	II	2.6	2½
Nov.	1	Hd.	EI			+0.054			+0.65	II	2.6	3½
	7	Hd.	EI			+0.054			+0.64	II	2.1	2
Mean			1913.96			+0.020			+0.44			
Corr						−0.081			−0.29			

Lacaille 1071

				h	m	s	°	′	″			
1911												
Nov.	16	R.	EII	3	18	24.178	−25	54	33.78	0	6.5	3½
	18	R.	EII			24.134			34.73	0	6.5	3½
Dec.	1	R.	WII			24.192			33.22	0	7.5	2½
	4	Hd.	WII			24.117			33.57	0	7.0	3
1915												
Nov.	10	Hd.	WI			24.224			33.98	0	6.5	3
	16	Hd.	WI			24.253			35.04	0	7.0	3½
	22	Hd.	EI			24.215			33.70	0	6.5	2
	23	Fn.	EI			24.173			33.24	0	7.0	3
Mean			1913.89	3	18	24.186	−25	54	33.91			
Corr						−0.081			−0.02			

o Tauri

				h	m	s	°	′	″			
				3	19	58.069	+8	42	45.42			
						s		″	″			
1911												
Nov.	7	R.	EII			+0.080			+0.06	I	2.9	2½
	13	Fn.	EII			+0.036			----	0	---	2
	15	Fn.	EII			+0.055			−0.08	I	3.3	2
	19	Fn.	EII			+0.014			+0.52	I	3.4	2½
	21	Fn.	EII			+0.007			+0.20	I	3.3	2½
	25	Hd.	WII			+0.031			+0.61	I	3.4	2½
	30	R.	WII			+0.034			−0.10	I	2.9	4
Dec.	2	R.	WII			+0.043			----	I	---	1½
	7	Hd.	WII			+0.050			----	I	3.2	1
	25	R.	EII			+0.082			----	0	---	--
1912												
Jan.	13	R.	WII			+0.004			----	I	2.9	2½
	21	Hd.	WII			+0.032			−0.08	I	3.4	--
Feb.	6	Hd.	EII			+0.013			----	I	2.9	2
Oct.	5	R.	EII			+0.019			+0.02	I	3.4	3
	7	R.	WII			+0.058			+0.37	I	3.4	2½
	10	R.	WII			+0.031			−0.27	I	3.9	2½
	25	Fn.	EII			+0.011			+0.34	I	3.5	3
	26	R.	EII			+0.035			+0.21	I	2.9	4
	29	R.	EII			+0.040			----	I	3.4	3½
	31	R.	EII			+0.045			----	I	3.4	2
Nov.	14	R.	EII			+0.035			+0.44	I	---	2½
	19	R.	EII			+0.042			----	I	---	4½
	20	Fn.	EII			+0.009			----	I	3.4	2½
	21	R.	EII			+0.039			−0.41	I	3.9	2½
	22	Fn.	EII			+0.046			−0.02	I	3.5	2
	29	Fn.	WII			+0.017			----	I	3.4	2½
	30	Hd.	WII			+0.046			----	I	3.4	1
Dec.	3	R.	WII			+0.045			----	I	3.9	2
	6	Fn.	WII			+0.057			----	I	3.5	2
	9	Fn.	WII			+0.053			----	I	--	--

			s	"	"			
1912								
Dec. 13	Hd.	EII	+0.023		−0.13	I	3.4	2½
19	Hd.	EII	+0.034		----	I	3.4	2½
20	Fn.	EII	+0.050		−0.10	0	---	2½
22	Fn.	WII	+0.077		0.00	0	---	2
28	Hd.	WII	+0.043		−0.14	I	3.4	3
30	Fn.	WII	+0.060		−0.57	I	3.6	3
1913								
Jan. 4	Hd.	WII	+0.029		----	I	3.4	3
18	Hd.	EII	+0.039		----	I	2.9	3½
19	Hd.	EII	+0.043		----	I	3.4	2
20	Fn.	EII	-----		−0.68	0	---	3½
Dec. 9	R.	EI	+0.070		----	0	---	--
19	R.	WI	+0.029		----	I	2.9	2
1914								
Jan. 6	Fn.	EI	−0.002		----	I	3.9	2½
7	Hd.	EI	+0.048		----	I	3.9	2
10	Hd.	EI	+0.056		+0.35	0	---	3
12	R.	EI	+0.033		----	I	2.9	2
14	Hd.	EI	+0.016		+0.11	I	---	2
20	Fn.	WI	+0.006		+0.09	0	---	3½
21	Hd.	WI	+0.056		----	I	3.4	2
22	Hd.	WI	+0.006		----	I	4.4	3
23	Fn.	WI	+0.092		----	0	---	4
25	Fn.	WI	+0.051		----	I	3.4	2
26	R.	WI	+0.029		----	I	2.9	3½
27	Fn.	WI	+0.004		----	0	---	3
28	Wy.	WI	+0.046		+0.53	0	---	4
29	R.	WI	+0.020		----	I	---	4
Feb. 4	Hd.	EI	+0.027		----	I	3.4	2½
7	Hd.	EI	+0.029		----	I	3.4	2
Nov. 23	Fn.	EI	+0.021		−0.33	I	3.9	2
24	Hd.	EI	+0.054		−0.12	0	---	3
Dec. 3	Fn.	WI	+0.066		----	I	3.9	2½
12	An.	WI	+0.029		+0.04	I	4.4	2½
16	An.	WI	+0.052		----	I	3.9	2
17	Fn.	WI	+0.037		+0.27	I	3.4	2½
21	Fn.	WI	+0.044		+0.09	I	3.9	3½
22	Wy.	WI	+0.073		+0.07	I	3.9	3
23	Hd.	WI	+0.050		−0.13	I	3.4	2
1915								
Jan. 4	Hd.	EI	+0.035		+0.04	I	3.9	2
5	Wy.	EI	+0.020		----	I	2.9	2½
7	Hd.	EI	+0.051		----	I	3.4	2
8	Wy.	EI	+0.040		----	I	3.4	3
9	An.	EI	+0.035		----	I	---	2½
10	Wy.	WI	+0.065		----	I	3.4	2
13	An.	WI	+0.070		----	II	3.6	2½
14	Hd.	WI	+0.043		+0.16	I	3.4	2
15	Fn.	WI	+0.026		----	0	4.5	2½
26	An.	EI	+0.027		−0.26	0	---	3
28	Fn.	EI	+0.038		−0.12	I	4.4	3
29	Wy.	EI	+0.024		+0.34	I	3.4	3
July 8	*Fn.*	*WI*	*+0.056*	*−0.54*	*−0.59*	*0*	---	*3½*
13	*An.*	*WI*	*+0.035*	*−0.58*	*−0.57*	*0*	---	*3*
16	*An.*	*WI*	*+0.089*	*−0.07*	*−0.24*	*0*	---	*3*
Dec. 4	Hd.	EI	+0.027		+0.08	I	2.9	2
7	Wy.	WI	+0.012		−0.50	0	---	3
15	Fn.	WI	+0.050		+0.04	0	---	3
21	Fn.	WI	+0.012		−0.18	I	3.9	2
27	Wy.	WI	+0.054		−0.04	I	4.9	3
1916								
Jan. 3	Hd.	EI	+0.016		−0.01	I	3.9	3
4	Fn.	EI	+0.064		+0.16	I	4.4	3
8	Hd.	EI	+0.085		+0.32	I	3.4	2
14	Wy.	EI	+0.088		----	I	3.9	3½
25	Fn.	EI	+0.055		+0.61	0	---	2½
Feb. 10	Fn.	WI	+0.019		+0.32	I	3.9	3
Mean	1913.87		+0.039		+0.05			
	1914.04							
Corr			−0.081		−0.21			

Weisse$_1$ III 312

			h	m	s	°	'	"			
1912											
Sept. 30	R.	EII	3	20	40.355	−4	47	49.23	0	6.5	3
Oct. 1	R.	EII			40.397			48.74	0	7.0	3½
16	Fn.	WII			40.396			49.77	0	7.5	3
1912											
Nov. 4	R.	WII			40.373			-----	0	---	3
26	Hd.	WII			40.386			49.68	0	---	3
1913											
Dec. 13	Hd.	EI			40.382			48.92	0	7.0	3
15	Fn.	WI			40.361			49.04	0	7.5	3
27	Wy.	WI			40.355			49.47	0	7.5	2½
29	Fn.	WI			40.325			48.73	0	7.0	2
1914											
Jan. 5	R.	EI			40.434			49.08	0	7.0	3
Mean	1913.39		3	20	40.376	−4	47	49.18			
	1913.46										
Corr					−0.081			−0.16			

2 H. Camelopardalis

	h	m	s	°	'	"
	3	21	46.396	+59	37	38.90

1912								
Oct. 4	R.	EII	−0.143		+0.09	I	4.4	3
15	R.	WII	−0.090		+0.01	I	3.9	1½
28	Fn.	EII	−0.119		+0.46	0	---	3½
Nov. 1	Fn.	WII	−0.051		−0.94	I	4.1	2½
1913								
Dec. 9	R.	EI	−0.133		−0.49	I	---	--
11	Fn.	EI	−0.144		+0.37	0	---	2
20	Hd.	WI	−0.084		−0.02	I	4.4	2
22	Fn.	WI	−0.092		+0.71	0	---	2½
26	Hd.	WI	-----		+0.58	I	3.9	3
Mean	1913.38		−0.107		+0.09			
	1913.45							
Corr			−0.081		−0.32			

ξ Tauri

	h	m	s	°	'	"
	3	22	17.404	+9	25	9.43

1911								
Dec. 7	Hd.	WII	+0.002		+1.01	I	3.4	1
19	Hd.	EII	+0.020		+0.35	I	3.4	2
25	R.	EII	+0.030		+0.47	0	---	2½
1912								
Jan. 15	Fn.	WII	−0.030		+1.37	I	3.6	1½
1914								
Nov. 17	Wy.	EI	+0.047		+2.01	I	3.4	2½
21	Fn.	EI	+0.052		+0.64	I	3.9	2½
Dec. 3	Fn.	WI	+0.020		+0.31	I	---	3
16	An.	WI	+0.039		+1.65	0	---	2½
Mean	1913.45		+0.022		+0.98			
Corr			−0.081		−0.21			

Weisse$_2$ III 412[1]

			h	m	s	°	'	"			
1912											
Oct. 29	R.	EII	3	22	50.061	+20	9	5.19	0	6.5	3
31	R.	EII			50.029			5.99	0	7.0	2
Nov. 4	R.	WII			50.023			4.89	0	7.0	3
5	Fn.	WII			50.018			5.13	0	6.8	2½
9	Fn.	WII			50.023			5.05	0	6.8	2½
1913											
Dec. 30	Wy.	WI			50.111			4.63	0	7.0	2
1914											
Jan. 6	Fn.	EI			50.018			5.10	0	6.5	2½
7	Hd.	EI			50.028			5.28	0	7.5	2
21	Hd.	WI			50.020			4.67	0	7.0	2½
22	Hd.	WI			50.030			5.21	0	7.5	3
Mean	1913.44		3	22	50.036	+20	9	5.11			
Corr					−0.081			−0.23			

Lalande 6371

			h	m	s	°	'	"			
1912											
Jan. 16	R.	WII	3	23	15.237	+30	3	49.17	0	7.0	2
19	Fn.	WII			15.246			49.74	0	7.0	1½
24	R.	EII			15.242			49.42	0	7.0	2½
27	R.	EII			15.191			49.72	0	7.0	2½

[1] Double; n. pr. component observed.

			h m s	° ′ ″			
1915							
Oct. 12	Fn.	WI	15.230	49.24	0	7.0	2
22	Hd.	WI	15.203	49.26	0	7.0	3
29	Hd.	EI	15.250	48.40	0	7.0	3
30	Fn.	EI	15.238	49.18	0	7.0	2½
Mean	1913.93		3 23 15.230	+30 3 49.27			
Corr			−0.081	−0.25			

Paris 4113

			h m s	° ′ ″			
1912							
Nov. 18	Fn.	EII	3 23 43.438	−11 35 51.71	0	5.8	1½
20	Fn.	EII	43.458	52.27	0	---	3
29	Fn.	WII	43.505	52.13	0	5.8	3½
30	Hd.	WII	43.402	51.89	0	6.0	2
1914							
Jan. 25	Fn.	WI	43.439	-----	0	---	2½
27	Fn.	WI	43.441	52.59	0	6.5	3½
29	R.	WI	43.396	51.53	0	---	4
Feb. 4	Hd.	EI	43.423	52.02	0	6.0	3
7	Hd.	EI	43.417	51.65	0	6.5	3½
Mean	1913.56		3 23 43.435	−11 35 51.97			
	1913.49						
Corr			−0.081	−0.13			

σ Persei

			h m s	° ′ ″			
1911							
Nov. 13	Fn.	EII	3 24 13.463	+47 41 6.39	0	---	2
16	R.	EII	13.450	7.19	I	3.9	1
Dec. 1	R.	WII	13.486	7.06	I	4.4	3
2	R.	WII	13.479	6.32	I	---	1
1915							
Oct. 23	Wy.	WI	13.384	7.33	I	4.4	2½
25	Wy.	WI	13.410	7.50	I	3.9	2½
Nov. 1	Hd.	EI	13.480	7.23	I	4.4	3½
3	Wy.	EI	13.388	6.99	I	4.4	2
Mean	1913.86		3 24 13.442	+47 41 7.00			
Corr			−0.081	−0.29			

B. D.+38° 737

			h m s	° ′ ″			
1916							
Dec. 7	Fn.	EI	3 25 -----	+38 50 24.79	0	7.5	2
29	Hd.	WI	-----	25.52	0	7.5	3
1917							
Jan. 2	Wy.	WI	-----	25.67	0	7.5	2½
8	Wy.	EI	-----	24.92	0	---	3
Mean	1916.99		3 25 -----	+38 50 25.22			
Corr			-----	−0.27			

Lalande 6499

			h m s	° ′ ″			
1911							
Nov. 19	Fn.	EII	3 25 39.354	−23 47 10.26	0	7.5	3
21	Fn.	EII	39.372	9.91	0	7.2	3
25	Hd.	WII	39.407	9.71	0	7.5	3
30	R.	WII	39.309	10.77	D	6.5	3½
1914							
Nov. 23	Fn.	EI	39.448	8.48	0	7.5	3
Dec. 17	Fn.	WI	39.514	10.35	0	7.5	3
23	Hd.	WI	39.489	10.45	0	7.0	3
1915							
Jan. 4	Hd.	EI	39.398	9.26	0	7.0	2½
Mean	1913.43		3 25 39.411	−23 47 9.90			
Corr			−0.081	−0.04			

f Tauri

			h m s	° ′ ″			
			3 25 54.148	+12 37 43.80			
1912							
Nov. 21	R.	EII	+0.074	+0.07	D	---	3½
22	Fn.	EII	+0.038	−0.44	I	4.5	2
1912			s	″			
Nov. 25	Fn.	WII	+0.020	−0.04	0	---	1½
26	Hd.	WII	+0.013	+0.12	I	---	3
1913							
Dec. 26	Hd.	WI	−0.004	+0.44	0	---	3
29	Fn.	WI	+0.008	−0.28	I	3.9	1½
1914							
Jan. 8	R.	EI	+0.012	−0.37	I	---	2½
10	Hd.	EI	+0.042	----	0	---	3
12	R.	EI	+0.058	−0.19	I	---	3
14	Hd.	EI	+0.009	+0.28	0	---	2
Mean	1913.57		+0.027	−0.05			
	1913.52						
Corr			−0.081	−0.22			

Bradley 487

			h m s	° ′ ″			
1911							
Dec. 4	Hd.	WII	3 26 9.094	−5 22 59.56	I	4.1	3
5	Hd.	WII	9.129	60.06	I	4.4	3
27	R.	EII	9.119	59.62	0	---	3
1912							
Jan. 9	R.	EII	9.105	59.35	0	---	5
1915							
Oct. 27	Fn.	WI	9.081	60.41	0	5.5	3
Nov. 5	Fn.	EI	9.128	59.79	0	5.0	2½
7	Hd.	EI	9.129	59.26	I	4.4	2
9	Wy.	WI	9.135	59.17	I	4.4	3
Mean	1913.90		3 26 9.115	−5 22 59.65			
Corr			−0.081	−0.16			

Pulkowa 1855, 503

			h m s	° ′ ″			
1912							
Oct. 4	R.	EII	3 26 55.942	+35 9 22.50	0	6.0	2
5	R.	EII	55.938	22.62	0	6.0	2½
7	R.	WII	55.989	22.71	0	6.0	1½
8	R.	WII	55.944	22.84	0	5.5	1
1913							
Dec. 11	Fn.	EI	55.936	22.48	0	6.5	2
13	Hd.	EI	55.945	22.78	0	6.0	3
15	Fn.	WI	55.966	22.61	0	6.0	1½
18	Fn.	WI	55.965	22.84	0	6.0	2
Mean	1913.36		3 26 55.953	+35 9 22.67			
Corr			−0.081	−0.26			

Bradley 489

			h m s	° ′ ″			
1911							
Dec. 6	Hd.	WII	3 27 43.703	+9 4 11.31	0	6.0	1
7	Hd.	WII	43.660	11.35	0	6.2	1
19	Hd.	EII	43.692	11.03	0	5.8	2
25	R.	EII	43.686	11.44	0	---	2
1915							
Oct. 12	Fn.	WI	43.714	9.96	0	6.5	2
21	Fn.	WI	43.679	11.86	0	6.5	3
28	Wy.	EI	43.695	11.00	0	6.5	3
29	Hd.	EI	43.696	11.52	0	6.5	3
Mean	1913.88		3 27 43.691	+9 4 11.18			
Corr			−0.081	−0.21			

ε Eridani [1]

			h m s	° ′ ″			
			3 28 41.142	−9 45 44.28			
1912							
Oct. 10	R.	WII	+0.004	−0.32	I	3.9	1½
14	Fn.	WII	+0.084	−0.72	I	3.6	2½
25	Fn.	EII	+0.039	−0.45	I	3.5	3½
26	R.	EII	+0.038	+0.15	I	3.4	4½
1913							
Dec. 19	R.	WI	+0.020	−0.79	I	3.9	2½
20	Hd.	WI	+0.010	−0.79	I	4.4	2

[1] Double; n. component observed.

			s	″			
1914							
Jan. 5	R.	EI	+0.042	−1.11	I	4.4	3
6	Fn.	EI	+0.043	−0.07	I	3.9	2½
Mean	1913.40		+0.035	−0.51			
Corr			−0.081	−0.14			

τ^5 Eridani

			h m s	° ′ ″			
			3 29 48.672	−21 56 3.74			
1912							
Jan. 10	Hd.	EII	+0.132	−0.48	I	3.9	4
16	R.	WII	+0.113	+0.42	0	5.5	4½
19	Fn.	WII	+0.159	+0.75	0	5.2	3
23	Fn.	EII	+0.132	−0.64	0	5.2	4
1914							
Nov. 17	Wy.	EI	+0.178	−0.10	I	4.4	3½
21	Fn.	EI	+0.094	−0.23	0	4.5	3
Dec. 3	Fn.	WI	+0.180	+0.15	0	---	3
12	An.	WI	+0..187	+0.21	I	4.9	3
Mean	1913.48		+0.147	+0.01			
Corr			−0.081	−0.06			

Bradley 494

			h m s	° ′ ″			
1912							
Oct. 31	R.	EII	3 31 40.322	+22 54 51.20	0	7.0	2
Nov. 1	Fn.	WII	40.375	50.12	0	6.9	2
4	R.	WII	40.359	50.50	0	7.0	2
14	R.	EII	40.315	51.34	0	6.5	2½
16	Hd.	EII	40.310	50.70	0	7.0	2½
1913							
Dec. 29	Fn.	WI	40.338	50.35	0	6.5	1½
30	Wy.	WI	40.333	50.31	0	7.0	3
1914							
Jan. 7	Hd.	EI	40.293	50.09	0	7.5	2
8	R.	EI	40.342	50.06	0	---	2½
21	Hd.	WI	40.326	50.61	0	7.0	2
Mean	1913.44		3 31 40.331	+22 54 50.53			
Corr			−0.081	−0.24			

Bradley 496[1]

			h m s	° ′ ″			
1911							
Nov. 15	Fn.	EII	3 32 10.126	+0 17 39.25	0	---	3½
16	R.	EII	10.116	39.74	0	5.5	2½
25	Hd.	WII	10.141	40.05	0	7.0	3
30	R.	WII	10.114	38.97	0	5.5	4
1914							
Nov. 24	Hd.	EI	10.129	38.73	0	---	3
Dec. 16	An.	WI	10.159	40.02	0	7.0	3
17	Fn.	WI	10.150	39.50	0	6.0	2
1915							
Jan. 4	Hd.	EI	10.129	39.00	0	6.0	2½
Mean	1913.42		3 32 10.133	+0 17 39.41			
Corr			−0.081	−0.18			

Bradley 498

			h m s	° ′ ″			
1912							
Oct. 4	R.	EII	3 32 11.414	−17 45 52.14	0	6.0	3
5	R.	EII	11.421	52.35	0	6.0	3½
7	R.	WII	11.350	52.30	0	5.5	3
8	R.	WII	11.326	52.55	0	5.5	2½
1914							
Jan. 13	Wy.	EI	11.411	51.47	0	5.5	3
22	Hd.	WI	11.402	52.89	0	---	3½
25	Fn.	WI	11.423	53.01	0	6.5	3
26	R.	WI	11.405	51.55	0	6.0	4
Feb. 4	Hd.	EI	11.364	52.22	0	6.0	3½
9	Fn.	EI	11.370	52.92	0	5.5	2½
Mean	1913.55		3 32 11.389	−17 45 52.34			
Corr			−0.081	−0.09			

10 Tauri

			h m s	° ′ ″			
1911							
Nov. 18	R.	EII	3 32 16.723	+0 6 58.17	I	3.9	2
19	Fn.	EII	16.652	59.04	0	4.9	3½
Dec. 5	Hd.	WII	16.750	58.58	I	3.9	3
6	Hd.	WII	16.761	58.69	I	3.9	1
1914							
Dec. 21	Fn.	WI	16.673	57.25	0	4.5	3½
22	Wy.	WI	16.740	57.33	I	4.9	3½
1915							
Jan. 5	Wy.	EI	16.626	57.45	I	4.4	2½
7	Hd.	EI	16.640	56.92	I	4.4	3
Mean	1913.45		3 32 16.696	+0 6 57.93			
Corr			−0.081	−0.18			

Weisse$_1$ III 560

			h m s	° ′ ″			
1912							
Oct. 10	R.	WII	3 34 16.518	+13 36 2.60	0	7.0	1½
15	R.	WII	16.561	2.73	0	6.5	1
26	R.	EII	16.569	2.79	0	---	3
28	Fn.	EII	16.548	2.19	0	7.0	3
29	R.	EII	16.532	3.01	0	6.5	2½
1913							
Dec. 19	R.	WI	16.540	2.30	0	6.0	2½
20	Hd.	WI	16.565	2.41	0	7.5	2
1914							
Jan. 5	R.	EI	16.537	1.80	0	6.0	3
6	Fn.	EI	16.502	2.43	0	6.5	2
Mean	1913.33		3 34 16.541	+13 36 2.47			
Corr			−0.081	−0.22			

11 H^1. Camelopardalis

			h m s	° ′ ″			
1911							
Dec. 7	Hd.	WII	3 34 20.11	+62 55 33.54	0	5.5	1
19	Hd.	EII	20.10	33.04	0	5.5	2
25	R.	EII	20.13	33.11	0	5.5	2
1912							
Jan. 15	Fn.	WII	20.12	33.09	0	5.8	2
1914							
Dec. 23	Hd.	WI	20.02	33.51	0	6.0	2½
1915							
Jan. 8	Wy.	EI	20.16	32.88	0	6.5	3
9	An.	EI	20.13	32.70	I	5.4	2½
10	Wy.	WI	20.03	33.23	I	4.4	2
Mean	1913.50		3 34 20.100	+62 55 33.14			
Corr			−0.081	−0.33			

Bradley 502

			h m s	° ′ ″			
1912							
Jan. 21	Hd.	WII	3 34 34.492	−5 54 51.47	0	6.0	3
22	Hd.	WII	34.526	52.44	0	6.0	3½
23	Fn.	EII	34.475	52.38	0	---	4
24	R.	EII	34.519	51.10	0	6.5	2½
1915							
Sept. 22	Wy.	EI	34.495	52.02	0	6.0	3
24	Hd.	EI	34.500	51.96	0	6.0	3½
Oct. 12	Fn.	WI	34.459	52.60	0	6.0	2½
21	Fn.	WI	34.492	52.92	0	6.5	3
Mean	1913.91		3 34 34.495	−5 54 52.11			
Corr			−0.081	−0.16			

Weisse$_2$ III 665

			h m s	° ′ ″			
1912							
Nov. 5	Fn.	WII	3 34 54.463	+40 53 44.34	0	7.1	2
12	R.	EII	54.576	-----	0	---	2
18	Fn.	EII	54.510	43.94	0	6.8	1½
20	Fn.	EII	54.545	44.50	0	7.2	2½
26	Hd.	WII	54.538	44.35	0	---	2½

[1] Double; n. fol. component observed.

1914			h m s	° ′ ″			
Jan. 29	R.	WI	54.546	44.35	0	8.0	3½
Feb. 2	Fn.	WI	54.529	44.29	0	7.5	2½
3	Wy.	EI	54.534	43.71	0	---	2
7	Hd.	EI	54.532	44.48	0	7.0	3
Mean	1913.42		3 34 54.530	+40 53 44.24			
	1913.48						
Corr			−0.081	−0.27			

B. D.+38° 782

1916			h m s	° ′ ″			
Dec. 7	Fn.	EI	3 34 -----	+38 49 34.93	0	8.0	2½
29	Hd.	WI	-----	34.98	0	8.0	3
1917							
Jan. 2	Wy.	WI	-----	35.80	0	8.0	3
8	Wy.	EI	-----	35.08	0	8.5	3
Mean	1916.99		3 34 -----	+38 49 35.20			
Corr			-----	−0.27			

τ Fornacis

1912			h m s	° ′ ″			
Nov. 30	Hd.	WII	3 35 3.026	−28 14 12.31	0	6.5	---
Dec. 3	R.	WII	3.007	12.73	0	6.5	2
12	R.	EII	3.087	11.35	0	7.5	2
13	Hd.	EII	3.035	10.85	0	7.0	3½
1914							
Nov. 4	Hd.	WI	3.088	12.18	0	6.5	3½
5	Fn.	WI	3.081	12.55	0	6.5	3½
19	Hd.	EI	3.007	-----	0	6.5	4
21	Fn.	EI	2.978	12.71	0	7.0	3½
23	Fn.	EI	3.063	12.72	0	6.5	3½
Mean	1914.01		3 35 3.041	−28 14 12.18			
	1913.90						
Corr			−0.081	0.00			

δ Persei

			h m s	° ′ ″			
			3 36 30.705	+47 30 1.66			
1912			s	″			
Nov. 21	R.	EII	−0.011	−0.29	I	---	2
22	Fn.	EII	+0.060	−0.01	I	2.5	1½
Dec. 6	Fn.	WII	−0.002	+0.52	I	2.8	2½
9	Fn.	WII	−0.008	+0.72	I	2.8	2
1914							
Jan. 14	Hd.	EI	+0.016	+0.16	0	---	2
21	Hd.	WI	−0.012	+0.51	I	2.9	2
26	R.	WI	+0.030	+0.59	I	3.4	3
Feb. 4	Hd.	EI	−0.050	+0.42	I	3.4	2
1916							
June 22	*Hd.*	*WI*	*+0.007*	*+0.01* *0.00*	*0*	---	*3*
1917							
Jan. 18	Fn.	EI	+0.036	−0.15	0	---	3½
19	Hd.	EI	+0.034	−0.30	I	2.9	2
Mar. 12	*Hd.*	*EI*	*+0.007*	*+0.23* *+0.21*	*0*	---	*2*
19	*Fn.*	*EI*	*−0.002*	*+0.47* *+0.43*	*0*	---	*3½*
20	*Hd.*	*EI*	*+0.002*	*−0.03* *−0.02*	*0*	---	*3*
22	*Fn.*	*EI*	*−0.051*	*+0.23* *+0.21*	*0*	---	*3½*
June 20	*Wy.*	*WII*	*+0.020*	*−0.32* *−0.34*	*0*	---	*3½*
24	*Wy.*	*WII*	*+0.033*	*−0.10* *−0.11*	*0*	---	*4*
July 1	*Hd.*	*EII*	-----	*−0.68* *−0.66*	*0*	---	*3½*
1918							
Jan. 8	Hd.	EII	+0.117	+0.24	0	---	3
Mar. 28	*Fn.*	*WII*	*+0.012*	*−0.15* *−0.20*	*0*	---	*3½*
June 23	*Wy.*	*WII*	-----	*−0.46* *−0.48*	*0*	---	*3½*
July 1	*Hd.*	*WII*	*+0.115*	*+0.33* *+0.32*	*0*	---	*3½*
8	*Hd.*	*EII*	*+0.032*	*−0.07* *−0.05*	*0*	---	*3*
14	*Wy.*	*EII*	*−0.113*	*+0.07* *+0.07*	*0*	---	*3½*
15	*Hd.*	*EII*	*+0.122*	*−0.22* *−0.19*	*0*	---	*3½*
17	*Wy.*	*EII*	*+0.019*	*−0.42* *−0.39*	*0*	---	*3½*
22	*Fn.*	*EII*	*+0.091*	*−0.35* *−0.33*	*0*	---	*3½*
Mean	1914.55		+0.019	+0.22			
Corr			−0.081	−0.28			

149 H¹. Cephei

1913			h m s	° ′ ″			
Jan. 4	Hd.	WII	3 37 16.90	+86 21 54.33	0	6.0	3
9	R.	WII	16.93	54.03	0	5.5	3
18	Hd.	EII	17.50	54.95	0	6.0	3½
19	Hd.	EII	17.43	54.39	0	6.5	2½
1914							
Oct. 21	An.	EI	-----	55.09	0	6.0	3
23	Fn.	EI	18.02	53.79	0	6.0	3
Nov. 2	Fn.	WI	17.30	54.65	0	6.0	2½
13	Fn.	WI	17.27	54.42	0	6.0	3
Mean	1913.81		3 37 17.34	+86 21 54.46			
	1913.93						
Corr			−0.08	−0.39			

149 H¹. Cephei s. p.

1913			h m s	° ′ ″			
June 9	Hd.	WII	3 37 17.06	+86 21 54.30	0	6.0	3
10	R.	WII	16.93	53.73	0	6.0	2½
11	Fn.	EII	17.16	54.33	0	6.0	3
12	Hd.	EII	16.23	54.18	0	6.0	2
1914							
May 6	Fn.	WI	17.45	53.58	0	---	---
15	Wy.	WI	17.35	54.39	0	---	3
16	Fn.	WI	17.01	53.92	D	6.0	3
26	Wy.	EI	17.10	53.76	0	---	3
June 6	Wy.	EI	17.07	53.40	0	---	2½
Mean	1913.96		3 37 17.04	+86 21 53.95			
Corr			−0.08	+0.44			

.13 H¹. Camelopardalis

1912			h m s	° ′ ″			
Dec. 14	R.	EII	3 37 29.13	+66 55 12.14	0	6.5	2½
15	Fn.	EII	29.06	11.85	0	6.5	2½
27	Fn.	WII	29.07	12.70	0	---	2½
28	Hd.	WII	29.03	12.73	0	6.0	2
1913							
Jan. 14	R.	WII	29.07	13.15	D	---	1½
Dec. 27	Wy.	WI	29.23	12.36	0	6.0	2
29	Fn.	WI	29.18	11.96	0	6.0	1½
1914							
Jan. 7	Hd.	EI	28.96	12.75	0	6.5	2
8	R.	EI	29.12	12.15	D	6.0	3
22	Hd.	WI	29.16	12.28	D	---	3
Mean	1913.50		3 37 29.101	+66 55 12.41			
Corr			−0.081	−0.34			

Oeltzen 4062

1911			h m s	° ′ ″			
Nov. 16	R.	EII	3 38 22.043	+45 48 56.69	0	6.5	2
18	R.	EII	22.052	55.99	0	6.0	2
25	Hd.	WII	22.044	57.34	0	6.0	3
30	R.	WII	22.070	56.23	0	6.0	2½
1914							
Dec. 23	Hd.	WI	21.969	56.61	0	6.5	3
1915							
Jan. 10	Wy.	WI	22.009	56.79	0	6.5	2
21	Wy.	EI	22.033	56.09	0	7.0	3
28	Fn.	EI	22.052	55.75	0	6.5	2½
29	Wy.	EI	22.064	56.31	0	6.5	2½
Mean	1913.64		3 38 22.037	+45 48 56.42			
Corr			−0.081	−0.28			

B. D.+23° 495

1913			h m s	° ′ ″			
Dec. 4	Fn.	EI	3 38 -----	+24 5 23.78	0	8.5	2½
5	Fn.	EI	-----	24.50	0	8.5	3
9	R.	EI	-----	23.92	0	---	---
13	Hd	EI	-----	24.37	0	---	3
15	Fn.	WI	-----	25.47	0	8.5	2½
18	Fn.	WI	-----	25.51	0	---	2
Mean	1913.94		3 38 -----	+24 5 24.59			
Corr			-----	−0.24			

B. D.+24° 540

1913			h	m	s	°	′	″			
Dec. 4	Fn.	EI	3	38	-----	+24	16	23.00	0	8.5	--
5	Fn.	EI			-----			22.95	0	8.5	3
9	R.	EI			-----			22.11	0	---	--
13	Hd.	EI			-----			22.93	0	---	3
15	Fn.	WI			-----			23.41	0	8.5	2½
18	Fn.	WI			-----			23.84	0	---	2
Mean------	1913.94		3	38	-----	+24	16	23.04			
Corr----------					-----			−0.24			

δ Fornacis

1912			h	m	s	°	′	″			
Oct. 4	R.	EII	3	38	40.105	−32	13	32.72	0	---	4
7	R.	WII			40.146			30.46	0	---	3½
8	R.	WII			40.073			31.27	0	---	3½
Nov. 12	R.	EII			40.158			31.98	0	---	2
14	R.	EII			40.115			[29.29][1]	0	---	4
1914											
Oct. 28	An.	EI			40.122			31.12	0	---	--
31	An.	EI			40.159			32.65	0	7.0	3½
Nov. 9	Hd.	WI			40.185			31.27	0	6.0	3½
11	An.	WI			40.223			32.63	0	6.0	3½
Mean------	1913.71		3	38	40.143	−32	13	31.76			
	1913.82										
Corr----------					−0.081			+0.07			

o Persei

1912			h	m	s	°	′	″			
Nov. 20	Fn.	EII	3	38	40.304	+32	0	13.13	I	3.5	2
22	Fn.	EII			40.315			13.71	I	3.3	1½
26	Hd.	WII			40.297			13.19	I	---	2
29	Fn.	WII			40.290			14.11	I	3.5	2½
1914											
Nov. 17	Wy.	EI			40.362			14.06	I	3.4	2½
19	Hd.	EI			40.321			13.55	I	3.4	3
Dec. 3	Fn.	WI			40.318			13.90	0	---	2½
12	An.	WI			40.315			13.92	I	4.9	2
Mean------	1913.90		3	38	40.315	+32	0	13.70			
Corr----------					−0.081			−0.25			

Pulkowa 1855, 529

1911			h	m	s	°	′	″			
Nov. 19	Fn.	EII	3	38	41.705	+36	10	35.98	0	---	2
21	Fn.	EII			41.673			36.07	0	5.4	2
Dec. 5	Hd.	WII			41.698			35.49	0	5.5	3
6	Hd.	WII			41.692			35.46	0	5.5	1
1915											
Oct. 25	Wy.	WI			41.765			36.08	0	6.0	2½
27	Fn.	WI			41.746			35.47	0	6.0	2½
28	Wy.	EI			41.746			34.86	0	6.0	2½
29	Hd.	EI			41.750			35.26	0	6.0	3
Mean------	1913.86		3	38	41.722	+36	10	35.58			
Corr----------					−0.081			−0.26			

Lalande 6780

1912			h	m	s	°	′	″			
Nov. 16	Hd.	EII	3	38	52.661	+54	46	53.32	0	6.5	2½
18	Fn.	EII			52.592			54.18	0	6.3	1½
30	Hd.	WII			52.589			53.16	0	6.5	1
Dec. 3	R.	WII			52.582			53.01	0	7.0	1½
1914											
Nov. 26	Wy.	EI			52.635			52.80	0	---	3
Dec. 16	An.	WI			52.630			52.50	0	7.0	3
21	Fn.	WI			52.588			53.14	0	6.5	3
1915											
Jan. 4	Hd.	EI			52.680			52.88	0	7.0	2
7	Hd.	EI			52.725			52.47	0	6.5	3
Mean------	1914.05		3	38	52.631	+54	46	53.05			
Corr----------					−0.081			−0.30			

δ Eridani

			h	m	s	°	′	″			
			3	38	56.163	−10	4	1.05			
1912											
Dec. 20	Fn.	EII			+0.031			−0.07	I	3.5	2
30	Fn.	WII			−0.024			+0.36	I	3.8	3½
1913											
Jan. 4	Hd.	WII			+0.004			−0.08	I	3.4	3
19	Hd.	EII			−0.016			−0.03	I	3.9	2½
Dec. 19	R.	WI			−0.021			+0.43	I	3.4	2½
20	Hd.	WI			−0.007			+0.13	I	3.9	2
1914											
Jan. 5	R.	EI			−0.003			+0.41	I	3.9	4
6	Fn.	EI			−0.020			+0.56	I	3.9	2½
Mean------	1913.50				−0.007			+0.21			
Corr----------					−0.081			−0.14			

ν Persei

			h	m	s	°	′	″			
			3	39	4.510	+42	17	42.11			
1913					s		″	″			
Jan. 9	R.	WII			−0.078			−0.08	I	3.4	2½
14	R.	WII			−0.022			−0.77	I	3.4	1½
18	Hd.	EII			−0.011			−0.07	I	3.9	3
20	Fn.	EII			-----			+0.58	0	---	3½
21	Hd.	EII			−0.026			+0.38	I	3.1	2
1914											
Oct. 30	Hd.	EI			+0.015			−0.51	I	3.4	3
Nov. 6	Wy.	WI			−0.028			−0.07	I	3.4	2
10	Fn.	WI			−0.007			+0.43	I	4.4	3½
24	Hd.	EI			−0.047			−0.57	0	---	3
1915											
Jan. 14	Hd.	WI			−0.004			----	I	3.9	3
Nov. 5	Fn.	EI			−0.015			----	I	3.9	2
Dec. 15	Fn.	WI			−0.013			----	0	---	2½
27	Wy.	WI			−0.004			----	I	3.9	3
1916											
Jan. 3	Hd.	EI			+0.029			----	I	3.4	3
1917											
Apr. 7	*Hd.*	*WI*			*−0.003*			----	*0*	---	*8½*
Mean------	1914.64				−0.016			−0.08			
	1913.85										
Corr----------					−0.081			−0.27			

B. D.+27° 556

1912			h	m	s	°	′	″			
Jan. 21	Hd.	WII	3	39	8.754	+27	36	54.91	0	6.5	3
22	Hd.	WII			8.763			55.09	0	6.0	--
27	R.	EII			8.799			56.04	0	7.0	2½
Feb. 1	Fn.	EII			8.730			54.95	0	6.9	2
1915											
Sept. 28	Hd.	EI			8.768			54.60	0	6.5	2½
29	Fn.	EI			8.726			54.66	0	6.5	3
Oct. 9	Hd.	WI			8.768			54.03	0	6.5	2
11	Hd.	WI			8.731			54.50	0	6.5	2
Mean------	1913.91		3	39	8.755	+27	36	54.85			
Corr----------					−0.081			−0.25			

Piazzi III 138

1912			h	m	s	°	′	″			
Dec. 6	Fn.	WII	3	39	15.859	−10	46	12.91	0	6.2	4
9	Fn.	WII			15.907			13.93	0	5.8	3
12	R.	EII			15.888			12.42	0	6.0	2
13	Hd.	EII			15.851			12.17	0	6.0	3
1914											
Dec. 17	Fn.	WI			15.918			12.82	0	6.0	2½
22	Wy.	WI			15.916			12.86	0	6.5	3½
1915											
Jan. 8	Wy.	EI			15.863			12.57	0	6.5	3
9	An.	EI			15.869			12.70	0	6.5	3
Mean------	1913.97		3	39	15.884	−10	46	12.80			
Corr----------					−0.081			−0.14			

[1] Micrometer readings doubtful.

17 Tauri

			h m s	° ′ ″			
1912							
Jan. 15	Fn.	WII	3 39 31.747	+23 49 51.42	I	4.4	2
16	R.	WII	31.729	51.13	I	3.9	2½
23	Fn.	EII	31.716	51.94	I	3.4	3
24	R.	EII	31.711	51.68	I	3.9	1½
1915							
Sept. 22	Wy.	EI	31.739	51.25	I	3.9	2½
24	Hd.	EI	31.713	51.26	I	3.4	3
Oct. 12	Fn.	WI	31.728	51.83	I	3.9	2½
21	Fn.	WI	31.765	51.74	I	4.4	3
Mean	1913.90		3 39 31.731	+23 49 51.53			
Corr			−0.081	−0.24			

5 H. Camelopardalis

			h m s	° ′ ″			
			3 40 50.511	+71 3 20.87			
1912							
Oct. 10	R.	WII	−0.08	+0.93	I	4.4	1
28	Fn.	EII	−0.11	+0.88	0	---	3½
29	R.	EII	−0.03	+1.34	I	4.4	2
Nov. 4	R.	WII	−0.10	+0.18	I	4.4	3
1914							
Feb. 2	Fn.	WI	−0.07	+1.04	0	5.0	2½
3	Wy.	EI	−0.05	+0.96	0	---	2
7	Hd.	EI	0.00	+0.61	0	6.0	3½
14	Hd.	WI	+0.11	+0.78	I	4.4	2½
Mean	1913.46		−0.041	+0.84			
Corr			−0.081	−0.34			

5 H. Camelopardalis s. p.

			h m s	° ′ ″			
			3 40 50.513	+71 3 20.84			
1912							
May 27	Fn.	EII	+0.05	+0.86	0	---	2½
30	Fn.	WII	−0.20	+0.53	0	---	4
31	Hd.	WII	−0.12	+0.69	0	5.5	2½
June 5	R.	EII	−0.10	+1.53	0	5.5	--
1915							
May 17	Hd.	EI	+0.03	−0.57	0	6.0	4
June 10	Fn.	EI	−0.20	+0.65	0	5.5	3½
19	Wy.	WI	−0.01	−0.82	0	6.0	3½
July 5	Hd.	WI	−0.14	+0.19	0	6.0	3½
Mean	1913.93		−0.086	+0.38			
Corr			−0.081	+0.59			

B. D.+24° 562

			h m s	° ′ ″			
1913							
Dec. 3	Hd.	EI	3 41 -----	+24 14 30.27	0	---	--
Corr			-----	−0.24			

Lacaille 1213

			h m s	° ′ ″			
1912							
Dec. 14	R.	EII	3 41 45.356	−26 11 47.18	0	---	2½
19	Hd.	EII	45.414	47.22	0	---	3
20	Fn.	EII	45.461	47.46	0	7.5	3
28	Hd.	WII	45.365	46.95	0	7.5	3½
1913							
Jan. 9	R.	WII	45.418	47.36	0	7.0	3½
1914							
Nov. 4	Hd.	WI	45.415	46.17	0	7.5	3
5	Fn.	WI	45.447	46.66	0	7.0	3½
21	Fn.	EI	45.358	48.04	0	---	3½
23	Fn.	EI	45.392	47.37	0	7.5	3½
1915							
Jan. 4	Hd.	EI	45.363	46.96	0	7.5	2½
Mean	1913.94		3 41 45.399	−26 11 47.14			
Corr			−0.081	−0.02			

B. D.+24° 566

			h m s	° ′ ″			
1913							
Dec. 3	Hd.	EI	3 42 -----	+24 18 38.73	0	---	--
Corr			-----	−0.24			

η Tauri

			h m s	° ′ ″			
			3 42 7.921	+23 49 38.52			
1911			s	″ ″			
July 28	*R.*	*WII*	*+0.020*	*+0.17 +0.10*	*0*	---	--
30	*Fn.*	*WII*	*+0.054*	*+0.39 +0.34*	*0*	---	--
31	*Hd.*	*WII*	*+0.014*	*+0.02 −0.02*	*0*	---	*3*
Aug. 1	*R.*	*WII*	-----	*+0.16 +0.14*	*0*	---	--
9	*R.*	*EII*	*+0.024*	*+0.04 0.00*	*0*	---	--
Nov. 22	Hd.	EII	+0.035	+0.26	I	2.9	1
Dec. 2	R.	WII	+0.039	----	I	---	1
7	Hd.	WII	+0.023	−0.36	II	2.6	1
17	R.	EII	+0.045	+1.03	II	2.6	2
19	Hd.	EII	+0.047	+0.03	I	3.2	2
25	R.	EII	+0.017	+0.07	II	2.6	1½
27	R.	EII	+0.044	0.00	I	2.4	3
1912							
Jan. 9	R.	EII	+0.076	----	I	---	5
10	Hd.	EII	+0.015	----	I	2.4	3
Feb. 2	Hd.	WII	+0.035	+0.03	I	2.7	1½
4	Fn.	WII	+0.001	+0.45	I	3.5	2
6	Hd.	EII	+0.066	+0.39	I	2.9	2
8	Fn.	EII	+0.027	−0.55	I	2.8	2½
Oct. 5	R.	EII	+0.053	+0.46	II	2.6	2
9	R.	WII	+0.058	+0.07	0	---	1
15	R.	WII	+0.049	+0.19	II	2.6	2
25	Fn.	EII	+0.042	−0.22	I	2.6	2½
26	R.	EII	+0.046	+1.17	II	2.6	2½
31	R.	EII	+0.050	+0.36	0	---	2
Nov. 1	Fn.	WII	+0.051	−0.47	I	3.3	1½
21	R.	EII	+0.017	+0.17	I	---	3
1913							
July 6	*Hd.*	*WII*	*+0.082*	*−0.02 0.00*	*0*	---	*3*
7	*Fn.*	*WII*	*+0.037*	*+0.58 +0.58*	*0*	---	*3½*
Dec. 9	R.	EI	+0.015	----	II	2.6	2
29	Fn.	WI	+0.017	----	I	---	--
30	Wy.	WI	+0.012	----	I	2.9	2
1914							
Jan. 7	Hd.	EI	−0.013	----	I	2.9	2
8	R.	EI	+0.019	----	I	2.9	--
13	Wy.	EI	−0.006	+0.16	I	2.9	2½
14	Hd.	EI	+0.013	----	0	---	2
21	Hd.	WI	+0.025	----	I	2.9	2
23	Fn.	WI	+0.029	----	0	---	3½
25	Fn.	WI	+0.044	+1.12	0	---	2
28	Wy.	WI	0.000	+0.40	I	2.9	3½
Feb. 4	Hd.	EI	+0.024	+0.61	I	3.4	2
9	Fn.	EI	+0.026	−0.21	I	3.4	2
June 12	*Wy.*	*EI*	*+0.006*	*−1.22 −1.14*	*0*	---	*3½*
15	*Hd.*	*EI*	*+0.087*	*−0.05 0.00*	*0*	---	*3*
19	*Wy.*	*WI*	*−0.012*	*−0.33 −0.20*	*0*	---	*3½*
29	*Hd.*	*WI*	*−0.011*	*−0.18 −0.16*	*0*	---	*3*
July 2	*Hd.*	*WI*	*+0.018*	*+0.70 +0.70*	*0*	---	*3*
1915							
Jan. 10	Wy.	WI	+0.026	+0.45	I	3.4	2
13	An.	WI	+0.065	+0.44	II	3.6	2
14	Hd.	WI	+0.025	+0.46	I	2.9	2
15	Fn.	WI	+0.041	+0.66	I	2.9	2½
21	Wy.	EI	-----	+0.05	I	3.4	3
26	An.	EI	+0.034	−0.35	0	---	3
28	Fn.	EI	+0.046	−0.46	I	2.9	3
29	Wy.	EI	+0.015	−0.44	I	3.4	2½
June 24	*Wy.*	*EI*	*−0.001*	*+0.32 +0.33*	*0*	---	*3½*
27	*Wy.*	*EI*	*−0.008*	*+0.48 +0.47*	*0*	---	*3½*
28	*Hd.*	*EI*	*+0.068*	*+0.29 +0.26*	*0*	---	*3*
30	*Wy.*	*WI*	-----	*−0.11 −0.09*	*0*	---	*3½*
July 1	*Hd.*	*WI*	*+0.064*	*−0.31 −0.34*	*0*	---	*3*
5	*Fn.*	*WI*	*+0.057*	*−0.38 −0.37*	*0*	---	*3½*
8	*Fn.*	*WI*	*+0.074*	*+0.31 +0.30*	*0*	---	*3½*
11	*Hd.*	*WI*	*+0.046*	*+0.10 +0.07*	*0*	---	*3½*
13	*An.*	*WI*	*+0.022*	*+0.37 +0.38*	*0*	---	*3*
14	*Hd.*	*WI*	-----	*+0.47 +0.47*	*0*	---	*3*

				s	″	″			
1915									
July	*16*	*An.*	*WI*	*+0.019*	*+0.39*	*+0.32*	*0*	---	*3*
Oct.	22	Hd.	WI	+0.026		+0.76	I	2.9	3
	23	Wy.	WI	+0.025		+1.28	II	2.6	3
	29	Hd.	EI	+0.039		----	I	2.9	3
	30	Fn.	EI	+0.035		+0.38	I	2.9	2
Nov.	3	Wy.	EI	+0.048		+0.01	II	3.1	2½
	5	Fn.	EI	+0.050		+0.37	I	3.4	2
	7	Hd.	EI	+0.016		−0.47	II	2.6	2
	9	Wy.	WI	+0.041		+0.66	II	2.6	2½
	10	Hd.	WI	+0.052		+0.65	I	3.4	2
	11	Fn.	WI	+0.038		−0.57	I		2½
Dec.	4	Hd.	EI	+0.034		−0.47	I	2.9	2
	7	Wy.	WI	+0.024		−0.12	0	---	3
	15	Fn.	WI	+0.004		+0.08	0	---	2½
	21	Fn.	WI	+0.028		+0.67	I	3.4	2
	23	Wy.	WI	+0.044		+0.02	I	3.4	3½
	27	Wy.	WI	+0.038		+0.58	I	3.4	3
1916									
Jan.	3	Hd.	EI	+0.069		−0.04	I	2.9	2½
	4	Fn.	EI	+0.052		−0.33	0	---	3
	8	Hd.	EI	+0.056		+0.39	I	2.9	2
	19	Fn.	EI	+0.022		−0.49	0	---	2
	23	Fn.	EI	0.000		+0.55	I	3.4	2½
	25	Fn.	EI	+0.045		−0.11	I	3.9	2½
	27	Wy.	EI	+0.050		----	0	---	3½
Feb.	5	Fn.	EI	-----		+0.13	I	3.4	2
	10	Fn.	WI	+0.038		+0.48	I	2.9	3
June	*22*	*Hd.*	*WI*	*+0.026*	*+0.15*	*+0.17*	*0*	---	*3*
July	*2*	*Wy.*	*WI*	*+0.014*	*−0.38*	*−0.36*	*0*	---	*3½*
Dec.	7	Fn.	EI	+0.021		−0.08	I	3.4	2
	29	Hd.	WI	+0.037		+0.32	I	2.9	2½
1917									
Jan.	2	Wy.	WI	+0.038		+1.14	I	3.9	2½
	8	Wy.	EI	0.000		−0.16	I	3.4	3½
	18	Fn.	EI	+0.021		----	0	---	3½
	19	Hd.	EI	+0.032		−0.15	II	3.1	2
Mar.	*12*	*Hd.*	*EI*	*+0.034*	*−0.38*	*−0.35*	*0*	---	*2*
	15	*Wy.*	*EI*	*−0.062*	*+0.24*	*+0.27*	*0*	---	*3½*
	19	*Fn.*	*EI*	*+0.050*	*0.00*	*+0.07*	*0*	---	*3½*
	20	*Hd.*	*EI*	*+0.022*	*−0.13*	*−0.11*	*0*	---	*3*
	22	*Fn.*	*EI*	*−0.022*	*−0.41*	*−0.36*	*0*	---	*3½*
Apr.	*3*	*Hd.*	*WI*	*−0.061*	*+0.37*	*+0.41*	*0*	---	*3½*
June	*20*	*Wy.*	*WII*	*−0.013*	*−0.44*	*−0.40*	*0*	---	*3½*
	24	*Wy.*	*WII*	*+0.039*	*−0.70*	*−0.67*	*0*	---	*4*
July	*1*	*Hd.*	*EII*	-----	*+0.10*	*+0.07*	*0*	---	*3½*
1918									
Jan.	8	Hd.	EII	+0.069		+0.20	0	---	3
	10	Fn.	EII	+0.081		−0.50	I	3.4	3
	21	Fn.	WII	−0.016		−0.48	I	2.9	2
Feb.	15	Fn.	WII	+0.011		−0.72	I	2.9	3
Mar.	*18*	*Wy.*	*WII*	*−0.049*	*+0.26*	*+0.27*	*0*	---	*4*
	25	*Fn.*	*WII*	*[+0.186]*[1]	*−0.06*	*−0.04*	*0*	---	*3½*
	28	*Fn.*	*WII*	*+0.025*	*−1.02*	*−0.94*	*0*	---	*3½*
June	*23*	*Wy.*	*WII*	-----	*−1.19*	*−1.22*	*0*	---	*3½*
July	*1*	*Hd.*	*WII*	*+0.048*	*−0.31*	*−0.29*	*0*	---	*3½*
	8	*Hd.*	*EII*	*+0.067*	*−0.45*	*−0.46*	*0*	---	*3½*
	10	*Wy.*	*EII*	*+0.013*	*−0.16*	*−0.18*	*0*	---	*3½*
	14	*Wy.*	*EII*	*−0.003*	*+0.54*	*+0.53*	*0*	---	*3½*
	15	*Hd.*	*EII*	*+0.066*	*−0.23*	*−0.29*	*0*	---	*3½*
	17	*Wy.*	*EII*	*−0.006*	*+0.18*	*+0.14*	*0*	---	*3½*
	22	*Fn.*	*EII*	*+0.084*	*+0.29*	*+0.27*	*0*	---	*3½*
Mean		1914.71		+0.033		+0.16			
		1914.88							
Corr				−0.081		−0.24			

τ^6 Eridani

				h	m	s	°	′	″			
				3	42	58.486	−23	30	54.12			
1912												
Jan.	19	Fn.	WII			+0.050			−0.93	0	5.0	4
	20	R.	WII			+0.056			−2.42	I	4.4	2½
	24	R.	EII			+0.057			−2.04	0	5.5	3½
	27	R.	EII			+0.009			−1.98	0	---	5
1915												
Sept.	28	Hd.	EI			+0.090			−2.55	I	4.9	3½

				s	″			
1915								
Oct.	9	Hd.	WI	+0.106	−3.65	I	4.4	3½
	11	Hd.	WI	+0.092	−3.47	I	4.4	2
	28	Wy.	EI	+0.086	−2.81	0	5.0	3½
Mean		1913.92		+0.068	−2.48			
Corr				−0.081	−0.04			

27 Tauri

				h	m	s	°	′	″			
1912												
Nov.	22	Fn.	EII	3	43	48.537	+23	46	43.27	I	3.5	1½
	26	Hd.	WII			48.488			43.45	I	2.9	2
	29	Fn.	WII			48.467			43.73	I	3.5	2½
Dec.	12	R.	EII			48.537			43.23	I	3.9	1½
1913												
Dec.	19	R.	WI			48.521			43.52	I	3.9	2½
	20	Hd.	WI			48.552			43.92	I	3.9	2
1914												
Jan.	8	R.	EI			48.542			43.83	I	4.4	3
	14	Hd.	EI			48.505			43.87	0	---	2
Mean		1913.46		3	43	48.519	+23	46	43.60			
Corr						−0.081			−0.24			

Weisse$_1$ III 790

				h	m	s	°	′	″			
1911												
Nov.	15	Fn.	EII	3	44	1.838	−0	2	53.70	0	6.2	2
	16	R.	EII			1.773			53.58	0	6.0	3
	25	Hd.	WII			1.854			53.07	0	6.5	3
	30	R.	WII			1.781			51.78	0	5.5	5
1914												
Dec.	17	Fn.	WI			1.866			53.30	0	6.0	2
	22	Wy.	WI			1.895			52.39	0	6.5	3½
1915												
Jan.	5	Wy.	EI			1.838			53.31	0	6.0	3
	7	Hd.	EI			1.851			54.00	0	6.0	3
Mean		1913.44		3	44	1.837	−0	2	53.14			
Corr						−0.081			−0.18			

Lalande 7098

				h	m	s	°	′	″			
1912												
Oct.	4	R.	EII	3	44	37.955	−21	10	41.94	0	---	4½
	7	R.	WII			37.988			[39.44]	0	---	4
	8	R.	WII			37.929			41.53	0	6.0	2
Nov.	12	R.	EII			37.978			41.25	0	---	3
1913												
Dec.	29	Fn.	WI			37.990			41.27	0	5.5	2½
	30	Wy.	WI			37.999			42.54	0	6.0	2
1914												
Jan.	6	Fn.	EI			38.019			40.69	0	6.0	3
	7	Hd.	EI			38.035			41.37	0	6.0	3
	21	Hd.	WI			37.995			41.87	0	6.0	3
Mean		1913.47		3	44	37.988	−21	10	41.56			
		1913.56										
Corr						−0.081			−0.07			

Lalande 7019

				h	m	s	°	′	″			
1911												
Dec.	5	Hd.	WII	3	46	24.403	+57	42	30.82	0	6.2	3
	6	Hd.	WII			24.437			30.42	0	6.0	1
1912												
Jan.	9	R.	EII			24.480			30.21	0	---	5
	10	Hd.	EII			24.465			30.24	0	---	2
1914												
Nov.	24	Hd.	EI			24.494			29.94	0	7.0	3
Dec.	3	Fn.	WI			24.468			30.77	0	6.5	2½
	12	An.	WI			24.414			30.46	0	6.0	2½
1915												
Jan.	4	Hd.	EI			24.502			29.65	0	6.0	2
Mean		1913.46		3	46	24.458	+57	42	30.31			
Corr						−0.081			−0.31			

[1] Transit poor; too faint.

Bradley 535

			h m s	° ′ ″			
1911							
Dec. 7	Hd.	WII	3 47 12.223	+6 15 54.15	0	5.8	1
25	R.	EII	12.286	53.55	0	5.5	2
27	R.	EII	12.243	53.72	0	---	5
1912							
Jan. 15	Fn.	WII	12.241	54.48	0	6.3	2
1915							
Sept. 22	Wy.	EI	12.213	53.90	0	6.5	3
24	Hd.	EI	12.203	54.17	0	6.0	3
Oct. 9	Hd.	WI	12.236	53.12	0	6.0	3
11	Hd.	WI	12.235	53.23	0	6.0	2½
Mean	1913.87		3 47 12.235	+6 15 53.79			
Corr			−0.081	−0.19			

Piazzi III 187

			h m s	° ′ ″			
1912							
Nov. 20	Fn.	EII	3 48 1.164	+17 3 34.62	0	5.8	2
21	R.	EII	1.171	34.42	0	---	3½
30	Hd.	WII	1.204	35.54	0	6.0	3
Dec. 3	R.	WII	1.150	34.90	0	6.0	1½
1914							
Jan. 29	R.	WI	1.152	34.54	0	---	4
31	Wy.	WI	1.179	35.19	0	6.5	3
Feb. 4	Hd.	EI	1.171	34.30	0	6.5	2
7	Hd.	EI	1.180	34.97	0	6.0	3
Mean	1913.50		3 48 1.171	+17 3 34.81			
Corr			−0.081	−0.22			

ζ Persei

			h m s	° ′ ″			
			3 48 28.286	+31 37 1.18			
1912			s	″	″		
Jan. 16	R.	WII	+0.004		−0.39	I	3.4 2½
19	Fn.	WII	+0.008		+0.72	I	2.3 1½
23	Fn.	EII	+0.026		−0.63	I	2.5 3
24	R.	EII	+0.016		+0.62	I	3.4 2
1914							
Dec. 21	Fn.	WI	−0.031		----	I	2.9 3
22	Wy.	WI	+0.015		+0.28	I	3.4 3
23	Hd.	WI	+0.003		+0.07	I	2.9 3
1915							
Jan. 7	Hd.	EI	+0.058		−0.23	I	2.9 3
8	Wy.	EI	+0.052		−0.07	I	3.4 2½
14	Hd.	WI	+0.022		----	I	2.9 3
28	Fn.	EI	+0.065		----	I	2.9 2½
Nov. 5	Fn.	EI	+0.023		----	I	2.9 2
Dec. 21	Fn.	WI	−0.024		----	0	--- 2
23	Wy.	WI	+0.057		----	I	3.4 3½
27	Wy.	WI	+0.046		----	I	3.9 3
1916							
Jan. 3	Hd.	EI	+0.039		----	I	2.9 2½
Feb. 3	Hd.	EI	+0.030		----	I	2.9 2
June 22	*Hd.*	*WI*	*−0.019*	*+0.41*	*+0.42*	*0*	*--- 3*
July 2	*Wy.*	*WI*	*+0.040*	*−0.32*	*−0.31*	*0*	*-- 3½*
12	*Hd.*	*EI*	*+0.025*	*+0.09*	*+0.06*	*0*	*--- 3*
Aug. 16	*Fn.*	*EI*	*−0.031*	*+0.28*	*+0.28*	*0*	*--- 2½*
Dec. 7	Fn.	EI	+0.014		−0.02	I	3.4 2
29	Hd.	WI	−0.001		+0.41	I	2.9 2
1917							
Jan. 2	Wy.	WI	+0.014		+0.53	I	3.9 2½
8	Wy.	EI	+0.022		+0.44	I	--- 3½
18	Fn.	EI	+0.019		−1.27	0	--- 3½
19	Hd.	EI	+0.035		+0.50	I	2.4 2
28	Hd.	EI	+0.011		----	I	--- 2
Mar. 12	*Hd.*	*EI*	*+0.007*	*+0.24*	*+0.26*	*0*	*--- 2*
15	*Wy.*	*EI*	*−0.030*	*−0.10*	*−0.09*	*0*	*--- 3½*
20	*Hd.*	*EI*	*−0.007*	*+0.03*	*+0.04*	*0*	*--- 3*
22	*Fn.*	*EI*	*−0.008*	*0.00*	*+0.02*	*0*	*--- 3½*
Apr. 3	*Hd.*	*WI*	*+0.007*	*+0.06*	*+0.08*	*0*	*--- 3½*
10	*Fn.*	*WI*	----	*−0.03*	*−0.01*	*0*	*--- 3½*
June 24	*Wy.*	*WII*	*−0.023*	----	----	*0*	*--- 4*
July 1	*Hd.*	*EII*	----	*−0.59*	*−0.59*	*0*	*--- 3½*
1918			s	″	″		
Jan. 10	Fn.	EII	+0.061		−1.18	I	3.4 3
21	Fn.	WII	+0.001		+0.15	I	2.4 2
Feb. 15	Fn.	WII	−0.014		----	I	2.9 3
21	*Fn.*	*EII*	*+0.075*	*−0.17*	*−0.16*	*0*	*--- 3½*
Mar. 18	*Wy.*	*WII*	*−0.003*	*−1.55*	*−1.55*	*0*	*--- 4*
25	*Fn.*	*WII*	*−0.036*	*−0.12*	*−0.11*	*0*	*--- 3½*
June 23	*Wy.*	*WII*	*+0.044*	*−0.47*	*−0.45*	*0*	*--- 3½*
July 1	*Hd.*	*WII*	*+0.045*	*−0.53*	*−0.52*	*0*	*--- 3*
8	*Hd.*	*EII*	*+0.081*	*+0.39*	*+0.39*	*0*	*--- 3½*
10	*Wy.*	*EII*	----	*+0.22*	*+0.22*	*0*	*--- 3½*
14	*Wy.*	*EII*	*−0.068*	*+0.29*	*+0.28*	*0*	*--- 3½*
15	*Hd.*	*EII*	*+0.004*	*−0.04*	*−0.07*	*0*	*--- 3½*
17	*Wy.*	*EII*	*+0.061*	*+1.34*	*+1.33*	*0*	*--- 3½*
22	*Fn.*	*EII*	*+0.049*	*+0.01*	*−0.01*	*0*	*--- 3½*
Aug. 1	*Hd.*	*WII*	*+0.029*	*+0.84*	*+0.83*	*0*	*--- 3*
Mean	1915.65		+0.021		0.00		
	1915.40						
Corr			−0.081		−0.25		

Weisse$_1$ III 892

			h m s	° ′ ″			
1912							
Dec. 13	Hd.	EII	3 48 43.856	−6 54 4.16	0	7.0	2½
14	R.	EII	43.853	4.11	0	7.5	2
27	Fn.	WII	43.858	5.73	0	---	3½
28	Hd.	WII	43.926	5.17	0	6.5	3
1913							
Dec. 19	R.	WI	43.856	4.43	0	6.5	2
20	Hd.	WI	43.843	4.34	0	7.5	3
1914							
Jan. 6	Fn.	EI	43.827	4.18	0	6.5	2½
7	Hd.	EI	43.890	3.93	0	7.0	3
Mean	1913.48		3 48 43.864	−6 54 4.51			
Corr			−0.081	−0.15			

Lalande 7222

			h m s	° ′ ″			
1911							
Nov. 18	R.	EII	3 49 10.560	−18 42 ----	0	---	5
21	Fn.	EII	10.531	5.89	0	5.8	2½
25	Hd.	WII	10.506	5.79	0	6.0	3
30	R.	WII	10.511	7.31	0	6.0	4
Dec. 19	Hd.	EII	10.490	5.23	0	6.0	3½
1915							
Oct. 25	Wy.	WI	10.525	6.11	0	6.0	3
27	Fn.	WI	10.569	5.32	0	6.5	3
28	Wy.	EI	10.485	6.31	0	7.0	3½
29	Hd.	EI	10.500	6.26	0	6.0	3½
Mean	1913.65		3 49 10.520	−18 42 6.03			
	1913.87						
Corr			−0.081	−0.09			

9 H. Camelopardalis[1]

			h m s	° ′ ″			
			3 49 27.285	+60 50 45.66			
1912							
Jan. 20	R.	WII	+0.03	+0.59	I	4.4	1
21	Hd.	WII	−0.06	+1.23	0	5.5	3
27	R.	EII	+0.01	+1.58	I	4.4	2
Feb. 1	Fn.	EII	−0.01	−0.24	0	5.5	--
1915							
Sept. 28	Hd.	EI	−0.04	+0.86	I	4.4	2
29	Fn.	EI	−0.12	−0.21	0	5.0	3
Oct. 22	Hd.	WI	−0.03	+0.62	0	5.5	3
23	Wy.	WI	−0.05	+0.77	I	4.9	2½
Mean	1913.92		−0.034	+0.65			
Corr			−0.081	−0.32			

Weisse$_2$ III 1010

			h m s	° ′ ″			
1912							
Dec. 20	Fn.	EII	3 49 45.363	+30 46 52.55	0	6.4	1½
22	Fn.	WII	45.325	52.89	0	---	2
30	Fn.	WII	45.295	52.59	0	6.5	2½

[1] Double; s. pr. component observed.

1913			h m s	° ′ ″			
Dec. 27	Wy.	WI	45.361		53.39	D	6.0 2
29	Fn.	WI	45.338		53.74	0	6.0 1½
1914							
Jan. 8	R.	EI	45.364		52.67	0	6.5 3
14	Hd.	EI	45.296		53.28	0	--- 2
21	Hd.	WI	45.313		53.49	0	6.5 2
Mean	1913.63		3 49 45.332	+30 46	53.08		
Corr			−0.081		−0.25		

ϵ Persei[1]

		h m s	° ′ ″			
		3 51 48.669	+39 45	1.98		
1912		s	″	″		
Oct. 4	R. EII	−0.046		+0.38	II	2.6 2½
5	R. EII	−0.003		−0.23	I	2.4 2
7	R. WII	+0.027		+0.18	II	2.4 1½
9	R. WII	+0.023		−0.46	0	--- 1
1914						
Nov. 23	Fn. EI	−0.015		+0.59	I	2.9 2
24	Hd. EI	−0.017		+0.38	I	3.9 3
Dec. 12	An. WI	−0.041		+0.26	II	3.6 2
16	An. WI	−0.070		+0.23	II	3.6 2
1915						
Jan. 14	Hd. WI	−0.002		----	I	2.9 2
28	Fn. EI	−0.045		----	I	3.4 2½
Nov. 5	Fn. EI	−0.048		----	I	2.9 2
Dec. 23	Wy. WI	0.000		----	I	3.4 3½
27	Wy. WI	−0.008		----	I	4.4 3
1916						
Jan. 3	Hd. EI	+0.032		----	I	2.9 2
Feb. 3	Hd. EI	−0.007		----	I	2.9 2
1917						
Apr. 7	*Hd. WI*	*+0.023*	----	----	*0*	--- *3½*
1918						
Feb. 15	Fn. WII	−0.050		----	I	2.9 3
Mean	1914.93	−0.017		+0.17		
	1913.85					
Corr		−0.081		−0.27		

Weisse$_1$ III 943

1912			h m s	° ′ ″			
Jan. 21	Hd.	WII	3 51 55.637	+2 47	47.49	0	7.0 3
22	Hd.	WII	55.686		47.55	0	7.0 3½
Feb. 6	Hd.	EII	55.665		47.30	0	7.0 3
8	Fn.	EII	55.652		47.40	0	--- 2½
1915							
Oct. 30	Fn.	EI	55.649		47.78	0	7.0 2½
Nov. 1	Hd.	EI	55.700		47.40	0	7.5 3½
9	Wy.	WI	55.672		47.45	0	7.0 3
10	Hd.	WI	55.668		47.66	0	7.0 2
Mean	1913.96		3 51 55.666	+2 47	47.50		
Corr			−0.081		−0.19		

Weisse$_2$ III 1060

1912			h m s	° ′ ″			
Dec. 9	Fn.	WII	3 52 3.344	+24 12	5.73	0	6.6 2
13	Hd.	EII	3.392		6.25	0	6.5 2
19	Hd.	EII	3.372		6.12	0	7.0 2
1913							
Jan. 4	Hd.	WII	3.386		5.75	0	6.5 2
1914							
Dec. 17	Fn.	WI	3.362		6.36	0	6.5 1½
21	Fn.	WI	3.378		7.01	0	7.0 3
1915							
Jan. 4	Hd.	EI	3.394		5.72	0	6.5 2
5	Wy.	EI	3.378		6.31	0	6.5 3
Mean	1913.98		3 52 3.376	+24 12	6.16		
Corr			−0.081		−0.24		

[1] Double; s. pr. component observed.

ξ Persei

		h m s	° ′ ″			
		3 53 7.331	+35 31	58.06		
1912						
Jan. 9	R. EII	[−0.100][2]		+0.35	0	--- 5
10	Hd. EII	−0.003		+0.52	I	3.9 2
15	Fn. WII	−0.053		+0.67	0	--- 2½
16	R. WII	+0.028		+0.41	I	4.4 2
1915						
Sept. 22	Wy. EI	−0.013		+0.54	I	3.9 2½
24	Hd. EI	−0.011		+1.15	I	3.9 3
Oct. 9	Hd. WI	+0.001		+0.93	I	3.9 2
11	Hd. WI	−0.034		+1.09	I	3.9 2
1916						
Jan. 27	Wy. EI	+0.007		----	0	--- 3½
Feb. 3	Hd. EI	+0.032		----	I	4.4 2
1918						
Feb. 15	Fn. WII	+0.004		----	0	--- 3
Mean	1914.94	−0.004		+0.71		
	1913.89					
Corr		−0.081		−0.26		

γ Eridani

		h m s	° ′ ″			
		3 53 49.821	−13 45	50.96		
1911		s	″	″		
Dec. 17	R. EII	+0.037		----	I	2.4 3
1912						
Jan. 23	Fn. EII	+0.007		----	I	2.8 3
24	R. EII	+0.040		+0.26	I	3.4 2½
Feb. 2	Hd. WII	+0.065		----	I	--- --
4	Fn. WII	+0.058		----	I	3.8 3
9	Hd. EII	+0.002		----	I	2.4 3
10	R. EII	−0.043		----	0	--- 2
Sept. 30	R. EII	−0.023		−0.29	I	--- 5
Oct. 1	R. EII	+0.049		+0.03	II	2.6 2
10	R. WII	−0.005		+0.11	I	2.9 1½
15	R. WII	+0.027		+0.17	II	2.6 2½
26	R. EII	+0.031		+0.52	II	2.6 3
Nov. 12	R. EII	0.000		----	0	--- 1½
14	R. EII	+0.013		+0.41	I	3.4 3
30	Hd. WII	−0.005		+1.50	I	2.9 3
Dec. 3	R. WII	+0.020		----	II	2.6 2½
6	Fn. WII	+0.024		----	0	--- 3
14	R. EII	+0.034		+0.12	I	3.9 2
1913						
Jan. 9	R. WII	+0.003		+0.15	II	2.6 3
14	R. WII	+0.041		−0.06	II	2.6 2
18	Hd. EII	+0.035		+0.33	I	3.4 3½
19	Hd. EII	+0.015		−0.37	I	3.9 2
21	Fn. EII	−0.013		+0.67	I	2.9 2
Dec. 15	Fn. WI	+0.024		----	I	3.4 1½
18	Fn. WI	+0.007		----	I	2.9 2½
19	R. WI	−0.023		+0.27	I	2.9 2
20	Hd. WI	−0.028		−0.21	I	3.4 3
29	Fn. WI	+0.037		−0.09	I	3.4 1½
1914						
Jan. 5	R. EI	+0.047		----	I	2.9 4
6	Fn. EI	+0.037		−0.17	I	3.4 3
7	Hd. EI	+0.018		----	I	3.9 2
8	R. EI	+0.075		----	I	3.9 3
12	R. EI	+0.062		----	I	--- 3½
14	Hd. EI	+0.054		−0.08	0	--- 2
25	Fn. WI	+0.014		----	0	--- 2½
28	Wy. WI	−0.061		−0.29	I	2.9 4
29	R. WI	−0.004		+0.10	I	--- 4
31	Wy. WI	+0.031		−0.39	0	--- 3½
Feb. 9	Fn. EI	+0.026		−0.64	I	3.4 2½
11	Hd. EI	+0.017		−0.27	I	3.4 3
July 2	*Hd. WI*	*+0.015*	*+0.21*	*+0.26*	*0*	--- *3½*
Nov. 6	Wy. WI	+0.061		+0.95	I	--- 3
Dec. 23	Hd. WI	+0.053		−0.69	I	3.4 3½
1915						
Jan. 7	Hd. EI	−0.004		−0.85	I	2.9 3½
8	Wy. EI	−0.008		−1.07	I	3.4 3

[2] Broken transit; poorly observed.

				s	"	"			
1915									
Jan.	9	An.	EI	−0.002		----	I	2.9	2½
	10	Wy.	WI	+0.068		−0.48	I	3.9	2½
	13	An.	WI	+0.030		+0.09	II	3.6	3
	14	Hd.	WI	+0.047		−0.64	I	3.4	2½
	15	Fn.	WI	+0.047		−0.74	I	3.4	3
	21	Wy.	EI	−0.021		----	I	3.4	4
	26	An.	EI	−0.010		−1.06	0	---	3
	28	Fn.	EI	+0.008		+0.36	I	3.9	3
June	*27*	*Wy.*	*EI*	*+0.028*	*+0.25*	*+0.32*	*0*	---	*3½*
	28	*Hd.*	*EI*	*+0.022*	*−0.05*	*−0.20*	*0*	---	*3*
July	*8*	*Fn.*	*WI*	*+0.029*	*−0.11*	*−0.15*	*0*	---	*4*
	11	*Hd.*	*WI*	*+0.014*	*−0.49*	*−0.60*	*0*	---	*3½*
	16	*An.*	*WI*	*+0.020*	*−0.17*	*−0.54*	*0*	---	*3½*
Oct.	25	Wy.	WI	+0.020		----	I	3.4	3
	27	Fn.	WI	+0.076		----	I	3.4	3
	28	Wy.	EI	+0.005		----	I	3.4	3
	29	Hd.	EI	+0.031		----	I	2.9	3
Nov.	3	Wy.	EI	+0.053		−0.43	I	2.9	2½
	5	Fn.	EI	+0.016		−0.38	I	---	3
	7	Hd.	EI	+0.039		−0.24	II	2.6	2
	11	Fn.	WI	+0.041		−0.68	0	---	3
	16	Hd.	WI	−0.026		−0.02	I	3.4	3
	22	Hd.	EI	+0.020		−0.73	II	3.1	2
	23	Fn.	EI	+0.043		−0.55	I	3.4	2½
Dec.	4	Hd.	EI	+0.004		−0.58	I	2.9	2
	23	Wy.	WI	+0.012		−1.79	I	3.9	4
1916									
Jan.	3	Hd.	EI	+0.035		−0.67	I	3.4	3½
	8	Hd.	EI	−0.010		−0.17	I	3.4	3
	19	Fn.	EI	+0.030		−1.70	0	---	2½
	25	Fn.	EI	+0.020		−0.24	0	---	2½
Mean			1914.21	+0.021		−0.22			
			1914.42						
Corr				−0.081		−0.12			

Weisse$_1$ III 998

				h	m	s	°	'	"			
1911												
Nov.	15	Fn.	EII	3	54	17.737	+13	43	11.19	0	6.8	2
	16	R.	EII			17.687			11.53	0	7.0	1½
	25	Hd.	WII			17.736			12.16	0	6.5	2
	30	R.	WII			17.706			11.94	0	6.5	3½
1915												
Sept.	28	Hd.	EI			17.726			11.35	0	7.0	2
	29	Fn.	EI			17.675			11.24	0	7.0	3
Oct.	22	Hd.	WI			17.730			11.29	0	7.0	3
	23	Wy.	WI			17.713			11.27	0	6.5	2½
Mean			1913.83	3	54	17.714	+13	43	11.50			
Corr						−0.081			−0.22			

λ Tauri

				h	m	s	°	'	"			
				3	55	41.554	+12	14	11.89			
1912												
Oct.	25	Fn.	EII			+0.010			+0.61	I	3.3	2
	28	Fn.	EII			+0.006			[−3.04][1]	I	2.9	2
Dec.	3	R.	WII			+0.011			+0.58	I	3.4	2
	6	Fn.	WII			+0.011			+0.42	0	---	2
1913												
Dec.	13	Hd.	EI			−0.024			+0.04	I	2.9	3
	15	Fn.	WI			−0.021			+0.35	I	3.4	1½
	18	Fn.	WI			+0.006			0.00	I	3.4	2½
1914												
Jan.	5	R.	EI			+0.030			−0.69	I	2.9	3½
Mean			1913.42			+0.004			+0.19			
			1913.51									
Corr						−0.081			−0.21			

B. D.+38° 834

				h	m	s	°	'	"			
1916												
Dec.	29	Hd.	WI	3	56	-----	+38	50	47.96	0	8.0	3
1917												
Jan.	2	Wy.	WI			-----			48.52	0	7.5	3
Jan.	8	Wy.	EI			-----			47.44	0	---	3
	9	Fn.	EI			-----			47.60	0	8.0	3
Mean			1917.01	3	56	-----	+38	50	47.88			
Corr						-----			−0.27			

Schwerd 215

				h	m	s	°	'	"			
1912												
Jan.	27	R.	EII	3	56	31.58	+73	45	17.78	0	7.0	2
Feb.	1	Fn.	EII			31.68			17.80	0	---	--
	2	Hd.	WII			31.60			18.25	0	6.5	2
	4	Fn.	WII			31.56			17.30	0	---	3
1915												
Oct.	25	Wy.	WI			31.67			18.04	0	6.5	3
	27	Fn.	WI			31.70			17.62	0	6.5	2½
	28	Wy.	EI			31.71			17.72	0	7.0	3
	29	Hd.	EI			31.63			17.73	0	6.0	3
Mean			1913.95	3	56	31.641	+73	45	17.78			
Corr						−0.081			−0.35			

Schwerd 215 s. p.

				h	m	s	°	'	"			
1912												
May	24	Hd.	EII	3	56	31.68	+73	45	16.79	0	7.5	3
	28	Hd.	WII			31.67			17.15	0	6.5	3
June	1	R.	WII			31.69			17.83	0	7.0	2
	8	R.	EII			31.56			17.31	0	7.5	2½
1915												
May	10	Hd.	EI			31.64			16.39	0	---	3½
	17	Hd.	EI			31.51			17.52	0	7.0	3½
June	19	Wy.	WI			31.72			17.23	0	7.0	3½
July	6	Fn.	WI			31.55			16.94	0	7.0	3
Mean			1913.92	3	56	31.628	+73	45	17.14			
Corr						−0.081			+0.54			

Oeltzen 4402

				h	m	s	°	'	"			
1911												
Nov.	18	R.	EII	3	58	14.71	+61	51	20.59	0	7.0	2
	21	Fn.	EII			14.70			19.74	0	6.6	2½
Dec.	1	R.	WII			14.74			20.17	0	---	3
	4	Hd.	WII			14.71			19.76	0	---	3
1914												
Nov.	24	Hd.	EI			14.75			20.28	0	7.5	2½
Dec.	16	An.	WI			14.76			19.64	0	7.0	2½
	17	Fn.	WI			14.76			19.70	0	6.5	1½
1915												
Jan.	4	Hd.	EI			14.78			19.85	0	6.5	2
Mean			1913.43	3	58	14.739	+61	51	19.97			
Corr						−0.081			−0.32			

ν Tauri

				h	m	s	°	'	"			
				3	58	22.057	+5	44	24.60			
1911												
Nov.	22	Hd.	EII			−0.001			+0.19	0	---	2
Dec.	17	R.	EII			−0.015			----	I	2.9	3
1912												
Jan.	10	Hd.	EII			+0.017			----	I	3.9	2
	15	Fn.	WII			−0.001			----	I	4.1	2½
	16	R.	WII			−0.003			----	I	4.4	2½
	19	Fn.	WII			+0.038			----	I	3.5	2½
	20	R.	WII			+0.048			----	I	3.4	2
	21	Hd.	WII			−0.004			----	I	3.1	2
	22	Hd.	WII			+0.024			----	I	3.4	3
	23	Fn.	EII			+0.024			----	I	---	3
	24	R.	EII			+0.015			----	I	4.4	2
Feb.	6	Hd.	EII			−0.002			+0.02	I	3.4	3
	8	Fn.	EII			−0.023			----	I	3.2	2½
	9	Hd.	EII			−0.010			+0.55	I	3.1	3
	10	R.	EII			−0.003			----	0	---	1
Sept.	30	R.	EII			−0.012			+0.45	I	---	4

[1] Micrometer readings doubtful.

1912				s	"	"				
Oct.	1	R.	EII	−0.012		+1.13	I	2	9	2
	7	R.	WII	+0.004		+0.63	I	3	9	2
	9	R.	WII	+0.002		−0.01	I	4	4	2
	26	R.	EII	+0.001		+0.96	I	3	9	3½
	29	R.	EII	+0.008		----	I	3	4	3
Nov.	12	R.	EII	−0.008		----	0	---		3
	14	R.	EII	−0.007		+0.97	0	---		2
	20	Fn.	EII	+0.005		----	I	3	5	2
	21	R.	EII	+0.016		----	0	---		3
Dec.	12	R.	EII	−0.011		----	0	---		--
	13	Hd.	EII	−0.008		+0.56	I	3	9	2
	14	R.	EII	−0.035		+0.41	I	4	4	2
	15	Fn.	EII	−0.013		−0.61	I	3	9	3
	19	Hd.	EII	−0.032		+0.71	I	4	1	2
	20	Fn.	EII	+0.002		+0.19	I	3	6	2½
	22	Fn.	WII	−0.008		−0.23	0	---		2½
	27	Fn.	WII	+0.012		+0.52	I	4	4	3½
	28	Hd.	WII	+0.034		+0.22	I	3	4	3
	30	Fn.	WII	+0.001		+0.22	I	3	9	2½
1913										
Jan.	4	Hd.	WII	−0.003		+0.32	I	3	9	2½
	9	R.	WII	−0.015		+0.06	I	4	4	3
	14	R.	WII	+0.001		−0.28	I	3	4	1½
	18	Hd.	EII	+0.040		+0.08	I	3	4	3
	19	Hd.	EII	+0.004		+0.07	I	4	4	2
	21	Hd.	EII	−0.004		+0.78	I	3	7	2
Dec.	30	Wy.	WI	−0.053		----	I	3	4	2½
1914										
Jan.	8	R.	EI	−0.016		----	I	---		4
	12	R.	EI	+0.012		----	I	2	9	3
	13	Wy.	EI	+0.028		+0.52	0	---		3
	14	Hd.	EI	+0.004		+0.11	0	---		2
	21	Hd.	WI	+0.015		----	I	3	9	2
	22	Hd.	WI	+0.035		----	I	---		3
	25	Fn.	WI	+0.011		----	0	---		2
	28	Wy.	WI	+0.012		----	0	---		4
	29	R.	WI	−0.027		----	I	---		4
	31	Wy.	WI	+0.024		−0.02	0	4	0	3½
Feb.	2	Fn.	WI	+0.010		−0.16	I	4	4	3
	3	Wy.	EI	−0.004		−0.20	0	4	5	3
	4	Hd.	EI	+0.001		----	I	4	4	3
	7	Hd.	EI	+0.006		----	I	3	9	3
	9	Fn.	EI	−0.052		+0.16	I	3	9	2½
	11	Hd.	EI	+0.014		−0.16	I	3	9	3
	14	Hd.	WI	+0.025		----	I	3	9	2
July	*2*	*Hd.*	*WI*	*−0.002*	*+0.07*	*+0.11*	*0*	---		*3*
Nov.	3	An.	WI	+0.022		+0.26	I	---		3
	6	Wy.	WI	+0.029		+0.69	I	3	4	2½
	23	Fn.	EI	+0.006		+0.12	I	3	9	2
Dec.	21	Fn.	WI	+0.012		+0.14	I	3	9	3½
	22	Wy.	WI	+0.036		+0.09	I	3	9	3
	23	Hd.	WI	+0.007		----	I	3	4	2½
1915										
Jan.	5	Wy.	EI	−0.004		----	0	---		3
	7	Hd.	EI	−0.012		----	I	3	4	3
	8	Wy.	EI	−0.025		----	I	3	9	2½
	9	An.	EI	−0.017		+0.02	I	3	9	2½
	10	Wy.	WI	+0.028		----	I	3	9	2½
	13	An.	WI	−0.004		----	II	3	6	2½
	14	Hd.	WI	+0.005		----	I	3	9	2
	15	Fn.	WI	−0.011		−0.41	I	3	9	3
	21	Wy.	EI	+0.013		----	I	3	9	3½
	26	An.	EI	+0.017		+0.03	0	---		3
	28	Fn.	EI	−0.006		----	0	---		2½
	29	Wy.	EI	+0.006		+0.24	I	3	9	3
Sept.	22	Wy.	EI	+0.003		----	I	3	9	3
	24	Hd.	EI	+0.027		----	I	3	4	2
	28	Hd.	EI	+0.010		----	I	3	4	2
	29	Fn.	EI	−0.015		----	I	3	9	3
Oct.	9	Hd.	WI	−0.006		----	I	3	9	2
	11	Hd.	WI	−0.017		----	I	3	4	2
	22	Hd.	WI	−0.034		----	I	3	9	2½
	23	Wy.	WI	−0.019		+0.09	I	3	9	3
	30	Fn.	EI	−0.020		+0.38	I	4	4	2½
Nov.	1	Hd.	EI	+0.015		+0.28	I	4	4	3½
	5	Fn.	EI	−0.015		+0.15	0	4	0	2½
	7	Hd.	EI	0.000		+0.70	I	3	9	2½
	9	Wy.	WI	+0.034		+0.36	I	3	9	3

1915				s		"				
Nov.	10	Hd.	WI	−0.005		+0.27	I	3	9	2
	16	Hd.	WI	+0.044		+0.09	I	3	9	3
	22	Hd.	EI	+0.012		−0.47	I	2	9	2
	23	Fn.	EI	−0.008		+0.20	I	3	9	2½
Dec.	4	Hd.	EI	+0.008		+0.35	I	3	4	2
	23	Wy.	WI	−0.023		+0.04	I	4	4	4
	27	Wy.	WI	+0.010		+0.05	0	---		3½
1916										
Jan.	3	Hd.	EI	−0.004		+0.02	I	3	9	3
	8	Hd.	EI	−0.003		+0.86	I	3	4	3
	19	Fn.	EI	−0.016		+0.07	0	---		2
	25	Fn.	EI	+0.004		+0.37	0	---		2½
Feb.	15	Fn.	WI	0.000		+0.08	I	4	4	2½
Mean			1914.09			+0.002				
			1914.27							
Corr						−0.081				
						−0.19				

A Tauri

				h	m	s	°	′	″			
				3	59	22.360	+21	50	11.78			
1912												
Oct.	4	R.	EII			−0.045			+0.03	I	4	4 2
	5	R.	EII			0.000			+0.30	I	3	9 3
	10	R.	WII			+0.030			+0.14	I	4	4 1
	15	R.	WII			−0.002			+0.35	I	4	4 3
1913												
Dec.	19	R.	WI			+0.032			−0.09	I	4	4 2
	20	Hd.	WI			+0.032			+0.22	I	4	4 2
1914												
Jan.	6	Fn.	EI			−0.027			−0.35	0	---	2
	7	Hd.	EI			−0.029			−0.07	I	4	4 2
Mean			1913.38			−0.001			+0.07			
Corr						−0.081			−0.23			

Lalande 7600

				h	m	s	°	′	″			
1912												
Jan.	10	Hd.	EII	4	0	10.042	−13	2	21.89	0	5	5 4
	15	Fn.	WII			10.081			19.10	0	---	2½
	16	R.	WII			10.075			20.82	0	6	0 4½
	24	R.	EII			10.045			19.91	0	6	5 3
1914												
Dec.	23	Hd.	WI			10.112			20.36	0	6	0 3
1915												
Jan.	7	Hd.	EI			10.037			21.40	0	6	0 3
	8	Wy.	EI			10.018			20.94	0	6	5 3
	13	An.	WI			10.113			20.14	I	5	9 3
Mean			1913.53	4	0	10.065	−13	2	20.57			
Corr						−0.081			−0.12			

ψ Tauri

				h	m	s	°	′	″			
1912												
Oct.	29	R.	EII	4	1	26.453	+28	45	31.15	0	5	5 3
Nov.	1	Fn.	WII			26.476			30.62	0	5	6 1½
	5	Fn.	WII			26.377			31.41	0	5	3 1½
	12	R.	EII			26.444			30.85	0	---	2
1913												
Dec.	13	Hd.	EI			26.397			30.74	I	4	9 3
	15	Fn.	WI			26.408			31.12	0	5	5 1½
	18	Fn.	WI			26.444			31.24	0	5	5 2
1914												
Jan.	5	R.	EI			26.430			30.27	0	5	5 3
Mean			1913.41	4	1	26.429	+28	45	30.92			
Corr						−0.081			−0.25			

174 G. Eridani

				h	m	s	°	′	″			
1911												
Nov.	15	Fn.	EII	4	1	54.875	−27	53	50.74	0	6	4 4½
	16	R.	EII			54.982			51.63	0	5	5 3½
	25	Hd.	WII			54.867			52.17	0	5	5 4
	30	R.	WII			54.807			53.21	0	6	0 4

			h	m	s	°	′	″			
1915											
Sept. 28	Hd.	EI			54.939			51.34	0	6.0	3
29	Fn.	EI			55.024			50.84	0	6.0	3½
Oct. 9	Hd.	WI			55.005			51.62	0	6.0	3½
11	Hd.	WI			54.990			51.52	0	6.0	3
Mean	1913.82		4	1	54.936	−27	53	51.63			
Corr					−0.081			0.00			

Weisse$_2$ III 1242

			h	m	s	°	′	″			
1912											
Nov. 9	Fn.	WII	4	1	57.871	+42	57	2.92	0	6.1	2
14	R.	EII			57.880			4.65	0	---	2
18	Fn.	EII			57.918			3.28	0	6.3	1½
20	Fn.	EII			57.914			3.09	0	6.2	2
26	Hd.	WII			57.826			3.02	0	6.5	2
1913											
Dec. 27	Wy.	WI			57.975			3.35	0	6.0	2
30	Wy.	WI			57.924			4.39	0	7.0	2½
1914											
Jan. 8	R.	EI			57.868			2.70	0	6.0	3
22	Hd.	WI			57.945			2.86	0	7.5	2
25	Fn.	WI			57.835			3.87	0	7.0	2
Feb. 4	Hd.	EI			57.891			2.74	0	6.5	2
Mean	1913.51		4	1	57.895	+42	57	3.35			
Corr					−0.081			−0.28			

c Persei

			h	m	s	°	′	″			
			4	2	7.436	+47	28	22.60			
1912											
Jan. 21	Hd.	WII			−0.085			+0.28	I	3.4	2
22	Hd.	WII			−0.044			+0.03	I	3.4	3
27	R.	EII			+0.011			−0.02	I	3.9	1½
Feb. 1	Fn.	EII			−0.016			−1.03	0	---	--
1915											
Sept. 22	Wy.	EI			−0.042			+0.17	I	3.9	3
24	Hd.	EI			−0.095			+1.03	I	3.4	2
Oct. 12	Fn.	WI			−0.053			+0.34	I	---	2
22	Hd.	WI			−0.049			+1.04	I	3.9	3
Mean	1913.92				−0.047			+0.23			
Corr					−0.081			−0.28			

Bradley 561

			h	m	s	°	′	″			
1912											
Nov. 22	Fn.	EII	4	2	36.578	+37	48	18.00	0	5.6	1½
29	Fn.	WII			36.486			17.44	0	5.5	2½
Dec. 9	Fn.	WII			36.507			17.44	0	5.3	2
12	R.	EII			36.553			17.24	0	5.5	1½
1914											
Jan. 26	R.	WI			36.568			16.89	0	6.0	3½
28	Wy.	WI			36.559			17.37	0	6.0	3½
29	R.	WI			36.632			16.80	0	---	4
Feb. 7	Hd.	EI			36.552			17.46	0	6.0	3
9	Fn.	EI			36.560			17.07	0	6.0	2
Mean	1913.57		4	2	36.555	+37	48	17.30			
Corr					−0.081			−0.27			

Lalande 7711

			h	m	s	°	′	″			
1912											
Jan. 19	Fn.	WII	4	3	4.340	−22	14	5.62	0	6.8	3½
20	R.	WII			4.337			5.88	0	6.5	3
Feb. 6	Hd.	EII			4.290			6.50	0	6.0	4
8	Fn.	EII			4.331			3.61	0	6.8	4
1915											
Oct. 23	Wy.	WI			4.361			5.51	0	7.5	3½
25	Wy.	WI			4.389			6.18	0	7.5	3½
29	Hd.	EI			4.348			6.02	0	7.0	3½
30	Fn.	EI			4.318			5.20	0	7.0	3
Mean	1913.95		4	3	4.339	−22	14	5.56			
Corr					-0.081			−0.06			

43 Tauri

			h	m	s	°	′	″			
1912											
Dec. 15	Fn.	EII	4	3	55.247	+19	22	18.54	0	6.5	3
19	Hd.	EII			55.260			19.67	0	6.0	2
22	Fn.	WII			55.238			17.85	0	---	2
27	Fn.	WII			55.265			18.72	0	6.3	3½
1914											
Jan. 31	Wy.	WI			55.357			19.24	0	6.0	3
Feb. 2	Fn.	WI			55.343			19.44	0	6.0	2½
11	Hd.	EI			55.264			18.35	0	6.0	3
12	Fn.	EI			55.278			18.18	0	6.5	1½
Mean	1913.54		4	3	55.282	+19	22	18.75			
Corr					−0.081			−0.23			

B. D.+38° 848

			h	m	s	°	′	″			
1916											
Dec. 29	Hd.	WI	4	4	-----	+38	59	23.18	0	7.0	2
1917											
Jan. 2	Wy.	WI			-----			23.00	0	7.0	2½
8	Wy.	EI			-----			22.69	0	7.5	3
9	Fn.	EI			-----			22.87	0	7.0	2½
Mean	1917.01		4	4	-----	+38	59	22.94			
Corr					-----			−0.27			

Weisse$_1$ IV 29

			h	m	s	°	′	″			
1911											
Nov. 18	R.	EII	4	5	19.401	−3	48	36.25	0	7.0	2½
21	Fn.	EII			19.292			35.71	0	6.9	3
Dec. 1	R.	WII			19.357			35.87	0	---	2½
4	Hd.	WII			19.389			35.90	0	---	3
1915											
Oct. 27	Fn.	WI			19.394			36.60	0	7.0	3
28	Wy.	EI			19.363			35.59	0	7.0	3
Nov. 1	Hd.	EI			19.381			35.50	0	7.5	3½
9	Wy.	WI			19.401			35.60	0	7.0	3
Mean	1913.87		4	5	19.372	−3	48	35.88			
Corr					−0.081			−0.16			

p Tauri

			h	m	s	°	′	″			
			4	5	20.826	+26	14	48.02			
1912											
Oct. 5	R.	EII			+0.029			+0.71	0	5.5	2½
7	R.	WII			+0.036			+0.25	I	4.9	1½
9	R.	WII			+0.038			+0.14	0	---	1
25	Fn.	EII			+0.027			+0.55	0	5.6	2½
1914											
Nov. 23	Fn.	EI			−0.010			−0.56	0	5.5	2
24	Hd.	EI			+0.013			+0.22	0	---	2
Dec. 12	An.	WI			−0.026			+0.46	0	6.0	2
16	An.	WI			−0.002			+0.81	0	---	2
Mean	1913.85				+0.013			+0.32			
Corr					−0.081			−0.24			

Bradley 566

			h	m	s	°	′	″			
1912											
Jan. 15	Fn.	WII	4	6	32.751	+5	17	22.37	0	---	2
16	R.	WII			32.772			21.63	0	5.8	4½
23	Fn.	EII			32.766			21.65	0	5.8	3½
24	R.	EII			32.744			22.16	0	---	2½
1915											
Sept. 28	Hd.	EI			32.809			21.94	0	6.0	3
29	Fn.	EI			32.815			22.01	0	6.0	3
Oct. 9	Hd.	WI			32.808			21.53	0	6.0	2½
11	Hd.	WI			32.783			21.52	0	6.0	2
Mean	1913.90		4	6	32.781	+5	17	21.85			
Corr					−0.081			−0.19			

Radcliffe 1845, 1158

				h	m	s	°	′	″			
1912												
Dec. 9	Fn.	WII		4	7	1.619	+48	51	48.22	0	6.7	2
13	Hd.	EII				1.652			48.54	0	7.0	2
14	R.	EII				1.699			48.26	0	7.5	1½
28	Hd.	WII				1.678			48.51	0	7.0	2
1914												
Dec. 22	Wy.	WI				1.640			48.71	0	7.0	3
23	Hd.	WI				1.663			49.15	0	7.0	3
1915												
Jan. 4	Hd.	EI				1.722			48.45	0	7.0	2
7	Hd.	EI				1.759			48.00	0	7.0	3
Mean	1913.98			4	7	1.679	+48	51	48.48			
Corr						−0.081			−0.29			

Groombridge 766

				h	m	s	°	′	″			
1912												
Nov. 1	Fn.	WII		4	7	14.74	+83	35	28.50	0	5.6	3
5	Fn.	WII				14.33			29.18	0	5.3	2½
12	R.	EII				14.46			28.93	0	---	2
14	R.	EII				14.14			28.47	0	---	3
18	Fn.	EII				14.15			28.95	0	5.2	1½
1913												
Dec. 29	Fn.	WI				14.27			28.84	0	5.0	2
1914												
Jan. 7	Hd.	EI				14.08			27.86	0	6.0	2
8	R.	EI				14.16			28.69	0	6.0	3
22	Hd.	WI				14.42			27.60	0	---	3
Mean	1913.38			4	7	14.306	+83	35	28.56			
Corr						−0.081			−0.39			

Groombridge 766 s. p.

				h	m	s	°	′	″			
1913												
May 8	Hd.	EII		4	7	13.96	+83	35	27.57	0	5.5	3½
10	R.	EII				13.76			28.07	0	6.0	3
June 2	Hd.	WII				13.62			27.68	0	6.0	3½
5	Hd.	WII				14.06			28.48	0	6.0	3
1914												
Mar. 7	Wy.	EI				14.26			26.87	0	6.0	3
13	Fn.	WI				13.99			28.06	0	5.0	3½
20	Fn.	EI				14.64			27.07	0	5.5	2½
Apr. 1	Wy.	WI				13.87			28.29	0	6.0	3½
Mean	1913.80			4	7	14.020	+83	35	27.76			
Corr						−0.081			+0.45			

o^1 Eridani

				h	m	s	°	′	″			
				4	7	28.300	−7	4	17.62			
1912												
Oct. 10	R.	WII				+0.006			−0.46	I	4.4	1½
15	R.	WII				+0.037			−0.58	I	3.9	3½
26	R.	EII				+0.011			+1.30	I	3.9	4
29	R.	EII				−0.009			+0.71	I	4.4	4½
1914												
Jan. 25	Fn.	WI				+0.029			−0.26	0	5.0	2½
26	R.	WI				−0.003			−0.20	I	4.9	4½
Feb. 3	Wy.	EI				−0.037			−0.33	0	---	3½
4	Hd.	EI				+0.016			−1.10	I	4.4	3
7	Hd.	EI				−0.007			+0.04	I	4.4	3
Mean	1913.52					+0.005			−0.10			
Corr						−0.081			−0.15			

Lalande 7880

				h	m	s	°	′	″			
1911												
Nov. 15	Fn.	EII		4	7	56.998	−17	30	17.57	0	6.8	4
16	R.	EII				57.023			18.47	0	6.5	3½
25	Hd.	WII				56.951			17.23	0	6.2	--
30	R.	WII				56.936			17.41	0	6.5	4
1915												
Sept. 22	Wy.	EI				56.988			17.78	0	6.5	3½
24	Hd.	EI				56.987			17.85	0	6.5	3½
Oct. 23	Wy.	WI				57.042			17.92	0	7.0	3½
25	Wy.	WI				57.063			17.59	0	6.5	3½
Mean	1913.83			4	7	56.998	−17	30	17.73			
Corr						−0.081			−0.10			

Groombridge 750

				h	m	s	°	′	″				
				4	7	59.73	+85	19	4.88				
						s		″	″				
1912													
Feb. 17	Fn.	EII				----			−0.27	0	---	3	R.
17	Fn.	EII				+0.63			−0.67	0	---	3	
22	R.	WII				----			+0.59	0	---	--	R.
22	R.	WII				+0.05			+0.27	0	---	--	
23	Fn.	WII				----			+0.05	0	---	2½	R.
23	Fn.	WII				−0.14			−0.48	0	---	2½	
1913													
Feb. 6	Hd.	WII				+0.37			−0.97	0	7.0	3	
7	R.	WII				----			+0.82	0	---	--	R.
7	R.	WII				−0.21			−0.05	0	7.0	3	
8	R.	WII				----			+0.26	0	---	--	R.
8	R.	WII				+0.10			−0.01	0	---	3½	
10	Hd.	WII				----			−0.66	0	---	3	R.
10	Hd.	WII				+0.26			−0.75	0	6.5	2	
12	Hd.	WII				+0.38			−0.24	0	7.0	2½	
13	Hd.	WII				----			−0.86	0	---	3	R.
13	Hd.	WII				+0.15			+0.26	0	6.5	2	
14	R.	WII				----			−0.58	0	---	--	R.
14	R.	WII				−0.28			+0.41	0	7.0	2½	
17	Hd.	EII				+0.35			−0.45	0	7.0	4	
18	Fn.	EII				----			−0.15	0	---	2	R.
18	Fn.	EII				−0.13			−0.96	0	---	2	
19	Hd.	EII				----			−0.80	0	---	3	R.
19	Hd.	EII				+0.27			+0.09	0	7.0	2½	
21	R.	EII				----			−0.47	0	---	--	R.
21	R.	EII				+0.07			+0.18	0	---	--	
23	*R.*	*EII*				*+0.23*	*+0.54*		*+0.51*	*0*	---	*3*	
24	*Hd.*	*EII*				*−0.05*	*−0.14*		*−0.18*	*0*	---	*2*	
1914													
Feb. 12	Fn.	EI				−0.01			−0.33	0	---	2½	
14	Hd.	WI				+0.72			−0.21	0	6.5	2	
15	Fn.	WI				----			−0.43	0	---	2	R.
15	Fn.	WI				−0.36			−0.45	0	7.0	2	
16	Fn.	WI				+0.19			−1.50	0	7.0	3	
17	Wy.	WI				+0.49			−0.72	0	7.0	3	
21	Hd.	WI				+0.93			−0.61	0	6.5	2	
1916													
Jan. 25	Fn.	EI				+0.59			−0.16	0	---	3	
Feb. 5	Fn.	EI				+0.65			----	0	---	3	
7	Wy.	EI				−0.06			+0.69	0	---	5	
9	Fn.	WI				+0.07			----	0	---	3	
10	Fn.	WI				+0.31			+0.34	0	7.5	3	
15	Fn.	WI				+0.46			−0.35	0	7.0	2½	
19	Hd.	WI				+0.67			−0.24	0	6.5	2	
21	Fn.	WI				+0.42			+0.17	0	7.0	2½	
Mean	1914.09					+0.25			−0.26				
	1913.93												
Corr						−0.08			−0.39				

Groombridge 750 s. p.

				h	m	s	°	′	″				
				4	7	59.73	+85	19	4.88				
						s		″	″				
1912													
Feb. 15	R.	EII				+0.04			−0.93	0	---	4	
16	Fn.	EII				+0.11			−1.44	0	---	3½	
22	R.	WII				----			−1.88	0	---	2	R.
22	R.	WII				+0.50			−1.62	0	---	2	
23	Fn.	WII				----			−2.08	0	---	3½	R.
23	Fn.	WII				−0.24			−1.15	0	---	3½	
1913													
Feb. 5	*Hd.*	*WII*				*+0.12*	*−0.07*		*0.00*	*0*	---	*3½*	
6	*Hd.*	*WII*				*+0.09*	*−0.75*		*−0.68*	*0*	---	*3*	
9	*Fn.*	*WII*				----	*−0.55*		*−0.61*	*0*	---	*2½*	

				s	″	″				
1913										
Feb.	*12*	*Hd.*	*WII*	*−0.74*	*−0.20*	*−0.16*	*0*	---	*2½*	
	14	R.	WII	----		−0.09	0	---	--	R.
	14	R.	WII	+0.58		−0.71	0	7.0	2	
	15	R.	WII	----		−1.40	0	---	2	R.
	15	R.	WII	−0.06		−1.30	0	7.0	2	
	17	Hd.	EII	−0.16		−0.88	0	7.0	2½	
	18	R.	EII	----		−0.48	0	---	2	R.
	18	R.	EII	+0.45		−2.26	0	7.0	2	
	24	Hd.	EII	+0.59		−0.60	0	7.0	3½	
	25	R.	EII	+0.39		----	0	---	1	
Mar.	2	Fn.	EII	----		−0.87	0	---	3½	R.
	2	Fn.	EII	+0.63		−1.37	0	---	3	
1914										
Feb.	16	Hd.	WI	−0.27		−0.86	0	7.0	3½	
	17	Fn.	WI	+0.68		−0.96	0	---	3½	
	21	Wy.	WI	0.00		−1.20	0	7.5	3	
	26	Hd.	EI	+0.46		−1.31	0	7.0	3½	
	27	Fn.	EI	−0.14		−1.25	0	---	3	
1916										
Mar.	3	Hd.	WI	−0.22		−1.01	0	7.5	3	
	10	Fn.	WI	+0.60		−2.17	0	7.5	2½	
June	12	Wy.	EI	−0.43		−1.17	0	7.5	3	
	13	Fn.	EI	−0.37		−1.20	0	7.0	3	
	17	Wy.	WI	−0.56		−0.85	0	7.0	2½	
Mean			1913.95	+0.12		−1.21				
			1913.99							
Corr				−0.08		+0.44				

μ Persei

				h	m	s	°	′	″			
1912												
Nov.	9	Fn.	WII	4	8	17.071	+48	10	52.98	I	3.8	2
	20	Fn.	EII			17.120			53.22	I	3.9	2
	26	Hd.	WII			17.046			53.55	I	3.9	2
Dec.	12	R.	EII			17.084			53.22	I	4.4	1½
1914												
Dec.	17	Fn.	WI			17.044			53.57	I	3.9	1½
	21	Fn.	WI			17.095			52.92	I	4.4	3
1915												
Jan.	5	Wy.	EI			17.136			52.84	0	---	2½
	8	Wy.	EI			17.145			53.25	I	4.4	2½
Mean			1913.94	4	8	17.093	+48	10	53.19			
Corr						−0.081			−0.29			

Piazzi IV 7

				h	m	s	°	′	″			
1912												
Jan.	19	Fn.	WII	4	9	41.517	+53	23	12.61	0	4.9	1½
	21	Hd.	WII			41.470			12.10	I	4.4	2
	27	R.	EII			41.442			12.21	0	5.5	1
Feb.	6	Hd.	EII			41.404			12.32	0	5.5	3½
1915												
Oct.	27	Fn.	WI			41.456			12.46	0	5.5	2½
	28	Wy.	EI			41.496			12.17	0	---	3
	29	Hd.	EI			41.489			12.04	0	5.5	3½
Nov.	9	Wy.	WI			41.485			12.58	I	4.9	2½
Mean			1913.95	4	9	41.470	+53	23	12.31			
Corr						−0.081			−0.30			

μ Tauri

				h	m	s	°	′	″			
				4	10	38.762	+8	40	3.14			
1912												
Nov.	29	Fn.	WII			+0.037			−0.06	I	3.9	3
Dec.	6	Fn.	WII			+0.064			−0.38	0	5.1	3
	15	Fn.	EII			−0.044			−0.39	0	4.7	3½
	20	Fn.	EII			−0.022			+0.26	I	4.1	2
1914												
Jan.	31	Wy.	WI			+0.007			+0.05	0	---	3½
Feb.	2	Fn.	WI			+0.012			−0.68	0	5.0	3
	9	Fn.	EI			+0.018			−0.36	0	4.5	2
	11	Hd.	EI			+0.011			−0.40	I	3.9	2½
Mean			1913.52			+0.010			−0.24			
Corr						−0.081			−0.21			

α Horologii

				h	m	s	°	′	″			
				4	11	-----	−42	31	0.00			
1916												
Dec.	19	Hd.	WI			-----			+1.6	0	---	4
1917												
Jan.	19	Hd.	EI			-----			0.0	0	---	4
1918												
Jan.	21	Fn.	WII			-----			−1.0	0	---	5
Feb.	21	Fn.	EII			-----			+2.6	0	---	4
Mean			1917.56			-----			+0.80			
Corr						-----			+0.49			

o² Eridani

				h	m	s	°	′	″			
1911												
Nov.	21	Fn.	EII	4	11	7.528	−7	47	39.43	0	5.0	2½
	22	Hd.	EII			7.511			39.39	0	---	2
Dec.	1	R.	WII			7.549			39.38	0	---	2½
	4	Hd.	WII			7.539			39.79	0	---	4
1915												
Sept.	28	Hd.	EI			6.961			52.93	I	4.4	3
	29	Fn.	EI			6.931			52.28	0	4.5	3
Oct.	21	Fn.	WI			6.948			53.70	0	5.0	3½
	22	Hd.	WI			6.957			51.91	0	5.0	3½
Mean			1913.84	4	11	7.240	−7	47	46.10			
Corr						−0.081			−0.15			

Bradley 576

				h	m	s	°	′	″			
1912												
Oct.	5	R.	EII	4	13	3.539	+21	21	35.88	0	6.0	3½
	7	R.	WII			3.566			35.49	0	5.5	1½
	9	R.	WII			3.516			35.43	0	5.5	1
	25	Fn.	EII			3.544			36.31	0	---	2
1913												
Dec.	19	R.	WI			3.554			35.62	0	5.5	2
	20	Hd.	WI			3.562			35.81	0	6.0	3
1914												
Jan.	5	R.	EI			3.513			34.59	0	6.0	2½
Feb.	3	Wy.	EI			3.569			35.93	0	---	--
	4	Hd.	EI			3.552			34.99	0	6.0	2
Mean			1913.47	4	13	3.546	+21	21	35.56			
Corr						−0.081			−0.23			

54 Persei

				h	m	s	°	′	″			
1912												
Jan.	15	Fn.	WII	4	14	33.814	+34	20	60.72	0	5.0	1½
	16	R.	WII			33.815			60.34	0	5.5	1½
	23	Fn.	EII			33.816			59.54	0	---	3½
	24	R.	EII			33.800			61.17	0	5.5	--
1915												
Sept.	22	Wy.	EI			33.815			60.54	I	4.4	2½
	24	Hd.	EI			33.798			60.74	0	5.5	3
Oct.	9	Hd.	WI			33.780			60.34	I	4.4	3
	11	Hd.	WI			33.771			60.33	I	4.4	2
Mean			1913.90	4	14	33.801	+34	21	0.46			
Corr						−0.081			−0.26			

γ Tauri

				h	m	s	°	′	″			
				4	14	40.229	+15	24	39.27			
1912												
Oct.	10	R.	WII			+0.029			+0.62	1	4.4	1½
	15	R.	WII			+0.016			+0.34	1	3.4	1½
	29	R.	EII			+0.011			+0.66	1	3.4	3
Nov.	12	R.	EII			−0.002			−0.27	1	---	1
1914												
Nov.	23	Fn.	EI			+0.011			−0.47	I	3.9	3
	24	Hd.	EI			+0.023			+0.17	0	---	3
Dec.	12	An.	WI			+0.005			+1.10	I	4.4	2½
	16	An.	WI			+0.001			+0.71	I	4.4	2½
Mean			1913.87			+0.012			+0.36			
Corr						−0.081			−0.22			

Bradley 586

				h	m	s	°	′	″				
1912													
Jan.	19	Fn.	WII	4	15	30.018	+14	52	48.69	0	5.6	1½
	21	Hd.	WII			30.033			48.90	0	6.0	2
Feb.	8	Fn.	EII			30.000			48.00	0	5.8	2½
	9	Hd.	EII			30.004			49.03	0	5.8	3
1915													
Oct.	27	Fn.	WI			30.021			48.51	0	6.0	2½
	28	Wy.	EI			30.013			48.70	0	6.0	3
	29	Hd.	EI			30.057			48.84	0	5.5	3
Nov.	9	Wy.	WI			30.026			49.25	0	5.5	2½
Mean		1913.96		4	15	30.022	+14	52	48.74			
Corr						−0.081			−0.22			

Lalande 8165

				h	m	s	°	′	″				
1912													
Nov.	5	Fn.	WII	4	16	4.669	−16	39	10.89	0	7.0	3½
	9	Fn.	WII			4.687			10.53	0	6.8	3½
	20	Fn.	EII			4.553			9.32	0	6.7	3½
Dec.	12	R.	EII			4.691			10.06	0	7.5	2
1914													
Feb.	2	Fn.	WI			4.611			9.39	0	7.0	3
	7	Hd.	EI			4.633			9.69	0	7.5	3
	11	Hd.	EI			4.678			9.80	0	---	3½
	14	Hd.	WI			4.644			10.10	0	7.0	2
Mean		1913.50		4	16	4.646	−16	39	9.97			
Corr						−0.081			−0.10			

Pulkowa 1855, 640

				h	m	s	°	′	″			
1912												
Jan.	22	Hd.	WII	4	16	20.955	−7	48	26.12	0	5.8	3
	24	R.	EII			20.918			-----	0	---	2
	27	R.	EII			20.928			25.09	0	5.5	3½
Feb.	2	Hd.	WII			20.927			25.74	0	6.5	2
	6	Hd.	EII			20.979			26.35	0	6.0	3
1915												
Oct.	30	Fn.	EI			20.914			25.02	0	6.5	2½
Nov.	1	Hd.	EI			20.947			26.46	0	6.0	3½
	10	Hd.	WI			20.919			25.78	0	6.0	2½
	16	Hd.	WI			20.982			26.40	0	6.0	3
Mean		1913.75		4	16	20.941	−7	48	25.87			
		1913.96										
Corr						−0.081			−0.15			

δ Tauri

				h	m	s	°	′	″			
				4	17	44.588	+17	19	55.36			
						s		″	″			
1911												
Aug.	*15*	*Fn.*	*EII*			*+0.017*	*+0.17*		*+0.15*	*0*	---	*2½*
	21	*R.*	*EII*			*+0.080*	*−0.12*		*−0.14*	*0*	---	---
Nov.	21	Fn.	EII			−0.008			−0.33	I	3.5	2½
	22	Hd.	EII			−0.012			−0.19	0	---	2
Dec.	1	R.	WII			−0.008			----	I	---	3
	4	Hd.	WII			+0.051			----	I	---	3
	5	Hd.	WII			+0.030			----	I	3.4	2
	6	Hd.	WII			+0.016			−0.19	I	3.4	1
	7	Hd.	WII			+0.032			+0.06	I	---	1
1912												
Jan.	9	R.	EII			+0.044			----	1	---	5
Feb.	5	Fn.	WII			−0.012			+1.36	1	3.5	2½
Oct.	5	R.	EII			−0.002			+0.17	1	3.9	3
	8	R.	WII			+0.010			+0.54	1	2.9	1
	9	R.	WII			+0.032			+0.17	1	3.9	1
	25	Fn.	EII			+0.056			+0.83	1	---	2
	26	R.	EII			+0.037			+0.98	1	3.4	4
Nov.	4	R.	WII			+0.047			−0.12	1	3.9	3
	14	R.	EII			+0.007			+0.59	0	---	2
Dec.	3	R.	WII			+0.011			+0.11	1	3.9	1½
1913												
Jan.	4	Hd.	WII			+0.036			−0.05	1	3.4	3
	8	Fn.	WII			−0.012			−0.59	0	---	3½
	9	R.	WII			−0.003			+0.13	1	3.9	2
1913						s		″	″			
Jan.	14	R.	WII			+0.017			+0.15	1	3.4	1½
	15	Fn.	WII			−0.005			−0.93	0	---	2½
	18	Hd.	EII			+0.014			----	1	3.4	3
	19	Hd.	EII			+0.034			+0.20	I	3.9	2
	21	Hd.	EII			+0.011			+0.48	I	3.4	2
	22	Fn.	EII			+0.023			+0.40	I	3.4	1½
	25	Hd.	EII			+0.014			+0.04	I	3.4	3
	30	Hd.	WII			+0 008			−0.08	I	3.9	3
Feb.	1	Hd.	WII			+0.021			+0.08	I	2.9	2
	4	Hd.	WII			+0.015			−0.10	I	3.4	2
Nov.	4	Fn.	EI			−0.009			+0.34	I	3.4	2
	10	Hd.	WI			+0.007			−1.19	I	3.4	3½
	17	Hd.	WI			+0.038			−0.19	I	3.4	4
	20	Hd.	WI			+0.044			+0.02	I	3.4	3
Dec.	18	Fn.	WI			+0.030			+0.29	I	3.9	2
	19	R.	WI			+0.039			----	I	3.4	2
	20	Hd.	WI			+0.030			----	I	3.4	2
1914												
Jan.	5	R.	EI			+0.015			----	I	3.9	2½
	8	R.	EI			−0.001			----	I	3.9	3
	22	Hd.	WI			+0.019			----	I	3.4	2
	25	Fn.	WI			+0.020			----	0	---	2
	26	R.	WI			+0.018			----	I	3.4	3
	27	Fn.	WI			+0.004			−0.08	0	---	3½
	31	Wy.	WI			+0.045			+0.40	0	4.5	3½
Feb.	12	Fn.	EI			−0.013			+0.07	0	---	1½
July	*2*	*Hd.*	*WI*			*−0.003*	*−0.33*		*−0.30*	*0*	---	*5*
	20	*Hd.*	*EI*			*+0.004*	*+0.23*		*+0.14*	*0*	---	*3*
Nov.	3	An.	WI			+0.063			+0.66	I	4.9	3
1915												
Jan.	5	Wy.	EI			+0.021			----	0	---	2½
	9	An.	EI			+0.031			+0.26	I	4.4	2½
	13	An.	WI			+0.005			+0.40	II	3.6	2
	14	Hd.	WI			+0.029			−0.05	I	3.4	2½
	15	Fn.	WI			+0.001			−0.43	I	3.9	3
	26	An.	EI			+0.036			+0.22	0	---	3
	28	Fn.	EI			+0.010			−0.01	I	3.9	2½
	29	Wy.	EI			+0.029			+0.09	I	3.4	3
July	*30*	*An.*	*EI*			*+0.008*	*+0.13*		*+0.12*	*0*	---	*3*
Oct.	22	Hd.	WI			+0.002			----	I	3.4	3
	23	Wy.	WI			+0.013			+0.22	I	3.4	2½
	25	Wy.	WI			+0.006			+0.17	I	3.4	2½
Nov.	3	Wy.	EI			+0.027			−0.40	I	3.4	2
	5	Fn.	EI			+0.007			+0.11	I	3.9	2
	7	Hd.	EI			+0.021			+0.55	I	2.9	2
	17	Fn.	WI			+0.005			−0.13	I	3.9	2
	22	Hd.	EI			+0.020			−0.14	I	3.4	2
	23	Fn.	EI			+0.050			+0.05	I	3.9	2½
Dec.	23	Wy.	WI			+0.045			+0.26	I	4.4	4
1916												
Jan.	3	Hd.	EI			+0.059			−0.13	I	3.9	2½
	8	Hd.	EI			+0.036			+0.10	I	3.4	2½
	24	Hd.	EI			+0.051			−0.24	I	2.9	2
	26	Wy.	EI			+0.037			----	I	---	3
	27	Wy.	EI			+0.032			----	0	---	3½
Feb.	9	Fn.	WI			-----			+0.16	0	---	3
	15	Fn.	WI			+0.005			−0.68	I	4.4	2½
Mean		1914.00				+0.020			+0.08			
		1914.07										
Corr						−0.081			−0.22			

Piazzi IV 68

				h	m	s	°	′	″			
1912												
Nov.	26	Hd.	WII	4	17	47.139	−25	56	23.62	0	6.5	3
	29	Fn.	WII			47.233			22.93	0	6.6	4
Dec.	15	Fn.	EII			47.152			21.95	0	6.6	4
	20	Fn.	EII			47.192			22.61	0	6.8	3½
1914												
Dec.	17	Fn.	WI			47.242			24.13	0	6.5	3
	21	Fn.	WI			47.236			23.60	0	6.5	3½
1915												
Jan.	4	Hd.	EI			47.175			23.70	0	6.5	3
	8	Wy.	EI			47.131			24.14	0	---	3½
Mean		1913.96		4	17	47.188	−25	56	23.34			
Corr						−0.081			−0.02			

ξ Eridani

				h	m	s	°	′	″			
1911												
Dec. 25	R.	EII		4	19	11.969	−3	57	11.43	0	5.8	3½
1912												
Jan. 9	R.	EII				11.938			10.47	0	---	5
15	Fn.	WII				11.986			11.65	0	5.5	2
16	R.	WII				11.925			11.34	0	6.0	4½
1915												
Sept. 28	Hd.	EI				11.928			11.35	0	6.0	3½
29	Fn.	EI				11.909			10.89	0	5.5	3
Oct. 9	Hd.	WI				11.910			11.64	0	6.5	3
11	Hd.	WI				11.914			11.45	0	5.5	3
Mean	1913.89			4	19	11.935	−3	57	11.28			
Corr						−0.081			−0.16			

B. D.+57° 800

				h	m	s	°	′	″			
1912												
Dec. 9	Fn.	WII		4	19	32.048	+57	22	49.63	0	6.4	2
13	Hd.	EII				32.113			49.31	0	6.2	2
14	R.	EII				32.094			50.04	0	---	1½
22	Fn.	WII				32.044			49.69	0	---	2
1913												
Dec. 19	R.	WI				32.102			49.31	0	6.5	2
20	Hd.	WI				32.097			49.54	0	6.5	2
1914												
Jan. 5	R.	EI				32.126			49.35	0	6.0	2
7	Hd.	EI				32.063			49.19	0	7.0	2
Mean	1913.47			4	19	32.086	+57	22	49.51			
Corr						−0.081			−0.31			

Lalande 8101

				h	m	s	°	′	″			
1912												
Oct. 7	R.	WII		4	20	24.10	+69	10	40.01	0	7.0	1½
10	R.	WII				24.08			40.37	0	7.0	1½
29	R.	EII				24.00			39.72	0	6.5	3½
Nov. 12	R.	EII				24.12			39.87	0	---	2
1914												
Jan. 26	R.	WI				24.05			39.97	0	7.0	3½
29	R.	WI				24.10			40.26	0	6.5	3½
Feb. 3	Wy.	EI				24.08			39.83	0	7.0	2½
4	Hd.	EI				24.09			39.16	0	7.0	2
Mean	1913.45			4	20	24.078	+69	10	39.90			
Corr						−0.081			−0.34			

ν^5 Eridani

				h	m	s	°	′	″			
				4	20	39.387	−34	13	31.59			
1912												
Dec. 28	Hd.	WII				+0.074			+0.93	0	5.0	4
30	Fn.	WII				−0.028			+1.22	0	---	4
1913												
Jan. 18	Hd.	EII				−0.015			+1.39	0	---	4
19	Hd.	EII				+0.004			+1.38	0	---	4
Dec. 29	Fn.	WI				−0.095			−0.26	0	5.5	3
1914												
Jan. 6	Fn.	EI				+0.028			+0.22	0	5.0	2½
8	R.	EI				+0.127			−0.69	0	4.5	3
25	Fn.	WI				+0.071			−1.17	0	---	3
Mean	1913.52					+0.021			+0.38			
Corr						−0.081			+0.11			

Weisse$_1$ IV 378

				h	m	s	°	′	″			
1911												
Nov. 15	Fn.	EII		4	21	28.116	+8	23	10.35	0	6.4	2½
16	R.	EII				28.128			11.00	0	6.0	2½
25	Hd.	WII				28.150			11.24	0	6.5	3
30	R.	WII				28.094			10.99	0	6.5	4
1914												
Dec. 12	An.	WI				28.123			11.25	0	7.0	2½
16	An.	WI				28.149			11.41	0	7.0	2½
1915												
Jan. 4	Hd.	EI				28.160			11.25	0	6.5	3
7	Hd.	EI				28.139			10.67	0	6.5	3
Mean	1913.44			4	21	28.132	+8	23	11.02			
Corr						−0.081			−0.20			

Weisse$_1$ IV 400

				h	m	s	°	′	″			
1912												
Nov. 5	Fn.	WII		4	22	19.884	+1	52	41.53	0	6.3	2½
9	Fn.	WII				19.910			40.66	0	6.2	3
18	Fn.	EII				19.885			41.49	0	6.5	1½
20	Fn.	EII				19.849			41.56	0	---	2½
1914												
Feb. 2	Fn.	WI				19.938			41.79	0	6.0	2½
7	Hd.	EI				19.889			41.48	0	7.0	3
9	Fn.	EI				19.895			40.99	0	6.5	2½
14	Hd.	WI				19.881			41.13	0	6.5	2
Mean	1913.49			4	22	19.891	+1	52	41.33			
Corr						−0.081			−0.18			

ε Tauri

				h	m	s	°	′	″			
				4	23	21.618	+18	58	53.20			
1911						s		″	″			
Aug. 15	*Fn.*	*EII*				*+0.004*		*−0.51*	*−0.50*	*0*	---	*2½*
20	*Fn.*	*EII*				*−0.027*		*+0.01*	*−0.07*	*0*	---	--
1912												
Jan. 16	R.	WII				+0.023			----	I	3.4	2
19	Fn.	WII				+0.028			+0.18	I	---	1½
20	R.	WII				+0.010			−0.39	I	3.4	2
21	Hd.	WII				+0.013			+0.02	I	3.1	2
22	Hd.	WII				+0.001			−0.16	I	3.4	3
23	Fn.	EII				−0.015			−0.26	I	3.3	3½
27	R.	EII				+0.071			----	I	2.9	1
Feb. 2	Hd.	WII				+0.025			----	I	2.9	3
4	Fn.	WII				−0.011			----	I	3.2	3
5	Fn.	WII				−0.020			----	I	3.2	2½
6	Hd.	EII				+0.029			----	I	3.1	2
8	Fn.	EII				+0.014			−0.90	I	3.2	2½
9	Hd.	EII				+0.005			−0.25	I	2.9	3
10	R.	EII				+0.020			−0.55	I	---	1
Oct. 8	R.	WII				+0.009			----	I	3.4	1½
15	R.	WII				+0.023			+0.25	I	3.4	2
26	R.	EII				−0.006			+0.31	I	2.9	3½
Nov. 1	Fn.	WII				+0.037			−0.78	I	2.9	2
14	R.	EII				+0.029			+0.04	0	---	--
30	Hd.	WII				−0.010			−0.69	I	3.4	2
Dec. 3	R.	WII				−0.010			+0.25	I	3.4	1½
19	Hd.	EII				+0.001			+0.58	0	---	2
20	Fn.	EII				+0.022			−0.33	I	3.4	2½
27	Fn.	WII				−0.001			−0.08	0	---	4
28	Hd.	WII				−0.030			+0.12	I	3.4	2
30	Fn.	WII				+0.008			+0.19	I	3.4	2½
1913												
Jan. 4	Hd.	WII				+0.015			−0.31	I	3.1	2½
8	Fn.	WII				+0.008			−0.82	0	---	3½
9	R.	WII				+0.013			−0.52	I	---	2½
14	R.	WII				+0.033			−0.02	I	3.4	2
15	Fn.	WII				−0.002			−0.25	I	3.7	2½
21	Hd.	EII				+0.019			+0.65	I	2.9	2
22	Fn.	EII				+0.069			−0.20	I	3.6	1½
25	Hd.	EII				−0.023			+0.03	I	3.1	2
30	Hd.	WII				−0.013			−0.48	I	3.9	3
Feb. 1	Hd.	WII				−0.011			−0.96	I	2.9	2
4	Hd.	WII				0.000			−0.43	I	3.1	2
Nov. 4	Fn.	EI				+0.013			+0.18	I	3.6	2
5	R.	EI				+0.023			−1.05	II	2.6	2
10	Hd.	WI				+0.044			−0.10	I	2.9	3
17	Hd.	WI				+0.008			+0.32	I	3.4	3
20	Hd.	WI				+0.011			0.00	I	3.4	3
Dec. 11	Fn.	EI				+0.010			----	I	3.4	2½
1914												
Jan. 20	Fn.	WI				+0.039			+0.39	0	---	3½
22	Hd.	WI				+0.018			+0.08	0	---	3
27	Fn.	WI				+0.017			+0.05	0	---	3½

				s	″	″			
1914									
Jan.	28	Wy.	WI	+0.036		+0.72	I	3.9	3½
	31	Wy.	WI	−0.045		+1.09	0	---	3½
July	*2*	*Hd.*	*WI*	*−0.026*	*−0.02*	*+0.01*	*0*	---	*2½*
	20	*Hd.*	*EI*	*+0.024*	*−0.21*	*−0.28*	*0*	---	*3*
	21	*Fn.*	*EI*	*+0.118*	*−0.61*	*−0.65*	*0*	---	*3½*
	28	*Fn.*	*EI*	*−0.011*	*−0.09*	*−0.14*	*0*	---	*3*
Nov.	23	Fn.	EI	+0.043		----	I	3.4	2
	28	Wy.	EI	−0.064		----	0	---	2½
Dec.	17	Fn.	WI	+0.001		----	I	3.9	2
	21	Fn.	WI	+0.027		----	I	3.9	3
	22	Wy.	WI	+0.003		----	I	3.4	3
	23	Hd.	WI	+0.008		----	I	3.4	2
1915									
Jan.	5	Wy.	EI	−0.007		----	0	---	3
	8	Wy.	EI	+0.042		----	I	3.9	2½
	9	An.	EI	−0.011		−0.45	I	4.4	2½
	10	Wy.	WI	+0.016		----	I	3.4	2½
	13	An.	WI	+0.001		----	II	3.6	2
	14	Hd.	WI	+0.003		+0.06	I	3.4	2
	15	Fn.	WI	+0.015		−0.71	I	2.9	3
	21	Wy.	EI	+0.029		----	I	3.4	3½
	26	An.	EI	−0.013		−0.17	0	---	3
	28	Fn.	EI	−0.038		----	I	3.4	2½
	29	Wy.	EI	−0.006		+0.03	I	3.4	2½
June	*28*	*Hd.*	*EI*	*+0.012*	*−0.13*	*−0.14*	*0*	---	*3*
July	*8*	*Fn.*	*WI*	*+0.043*	*−1.00*	*−1.00*	*0*	---	*3½*
	29	*Hd.*	*EI*	-----	*−0.20*	*−0.21*	*0*	---	*2½*
	30	*An.*	*EI*	*−0.035*	*−0.29*	*−0.30*	*0*	---	*3*
Oct.	9	Hd.	WI	−0.006		----	I	3.4	2
	11	Hd.	WI	−0.023		----	I	3.4	2
	27	Fn.	WI	−0.001		−1.28	I	3.9	3
Nov.	1	Hd.	EI	−0.040		----	I	3.4	3½
	3	Wy.	EI	−0.004		−0.12	I	3.4	2
	5	Fn.	EI	−0.013		+0.21	I	3.9	2
	7	Hd.	EI	+0.002		−0.30	I	2.9	2
	9	Wy.	WI	−0.005		+0.48	II	3.6	2½
	10	Hd.	WI	+0.005		+0.27	I	---	2
	16	Hd.	WI	−0.005		+0.21	I	3.4	3
	17	Fn.	WI	−0.013		+0.29	I	3.9	2
	22	Hd.	EI	−0.002		−0.09	I	3.1	2
	23	Fn.	EI	−0.018		−0.05	I	3.9	2½
Dec.	22	Wy.	WI	+0.009		+0.23	I	3.9	2
	23	Wy.	WI	−0.005		−0.05	I	4.4	3½
1916									
Jan.	3	Hd.	EI	+0.003		−0.28	I	3.4	2
	8	Hd.	EI	+0.011		−0.32	I	2.9	2½
	19	Fn.	EI	+0.012		+0.41	0	---	2
	24	Hd.	EI	+0.017		−0.15	I	2.9	2
	25	Fn.	EI	+0.019		+0.04	0	---	2½
	26	Wy.	EI	+0.053		----	I	---	--
June	*22*	*Hd.*	*WI*	*+0.012*	*−0.48*	*−0.44*	*0*	---	*3*
July	*5*	*Wy.*	*EI*	*+0.010*	*−1.17*	*−1.12*	*0*	---	*3½*
Dec.	29	Hd.	WI	+0.005		−0.17	I	3.9	2
1917									
Jan.	2	Wy.	WI	+0.026		−0.26	I	3.9	3
	18	Fn.	EI	−0.011		−0.28	0	---	3½
	19	Hd.	EI	+0.017		−0.24	I	3.4	2
Apr.	*3*	*Hd.*	*WI*	*−0.030*	*−0.40*	*−0.34*	*0*	---	*3½*
July	*29*	*Wy.*	*EII*	*−0.074*	*+0.04*	*−0.01*	*0*	---	*3½*
Aug.	*12*	*Fn.*	*WII*	*−0.005*	*+0.05*	*+0.03*	*0*	---	*2½*
	17	*Wy.*	*WII*	*+0.063*	*−0.84*	*−0.82*	*0*	---	*3*
	19	*Fn.*	*WII*	*+0.029*	*+0.13*	*+0.10*	*0*	---	*3*
1918									
Jan.	10	Fn.	EII	+0.012		−0.59	I	3.9	2½
	21	Fn.	WII	+0.046		----	0	---	2
Feb.	11	Wy.	WII	−0.042		−0.01	I	3.4	3½
	15	Fn.	WII	+0.025		+0.40	I	4.4	3½
	18	Fn.	EII	+0.020		+0.36	I	3.9	2½
	21	Fn.	EII	+0.028		−0.10	0	---	2½
Mar.	*25*	*Fn.*	*WII*	-----	*−0.25*	*−0.23*	*0*	---	*3½*
	28	*Fn.*	*WII*	*−0.019*	*−1.11*	*−1.08*	*0*	---	*3*
June	*23*	*Wy.*	*WII*	-----	*−0.69*	*−0.64*	*0*	---	*4*
July	*8*	*Hd.*	*EII*	*+0.023*	*−0.64*	*−0.60*	*0*	---	*3*
	14	*Wy.*	*EII*	-----	*−0.69*	*−0.66*	*0*	---	*3½*
Aug.	*1*	*Hd.*	*WII*	*−0.007*	*−0.15*	*−0.19*	*0*	---	*3*
	8	*Hd.*	*WII*	*+0.007*	*+0.27*	*+0.18*	*0*	---	*3½*
	11	*Fn.*	*WII*	*+0.088*	*−0.06*	*−0.07*	*0*	---	*3*

				″	″		
1918							
Aug.	*14*	*Fn.*	*WII*	*−0.076*	*+0.02*	*−0.03*	*0*	---	*3*
	15	*Hd.*	*WII*	*−0.020*	*−0.77*	*−0.81*	*0*	---	*3*
Mean		1914.45		+0.007		−0.09			
		1914.46							
Corr				−0.081		−0.23			

Weisse$_2$ IV 436

				h	m	s	°	′	″			
1911												
Dec.	6	Hd.	WII	4	23	46.211	+27	12	22.20	0	6.5	1
	7	Hd.	WII			46.175			22.69	0	---	1
	17	R.	EII			46.240			21.82	0	6.0	2
	19	Hd.	EII			46.209			22.02	0	6.5	2
1915												
Oct.	23	Wy.	WI			46.202			22.18	0	6.5	3
	25	Wy.	WI			46.223			22.57	0	6.5	3
	29	Hd.	EI			46.165			21.89	0	7.0	3
	30	Fn.	EI			46.172			22.12	0	6.5	2
Mean		1913.88		4	23	46.200	+27	12	22.19			
Corr						−0.081			−0.24			

Lalande 8474

				h	m	s	°	′	″			
1912												
Nov.	26	Hd.	WII	4	24	2.520	−21	42	10.95	0	7.0	3
	29	Fn.	WII			2.602			10.71	0	7.3	4
Dec.	12	R.	EII			2.515			10.26	0	7.5	4
	13	Hd.	EII			2.549			10.73	0	7.5	3½
1914												
Feb.	11	Hd.	EI			2.537			10.05	0	---	3½
	12	Fn.	EI			2.568			10.79	0	---	2½
	15	Fn.	WI			2.562			11.16	0	7.0	3
	16	Fn.	WI			2.569			10.26	0	7.4	3
	17	Wy.	WI			2.655			12.26	0	7.5	3½
Mean		1913.59		4	24	2.564	−21	42	10.80			
Corr						−0.081			−0.06			

Pulkowa 1855, 675

				h	m	s	°	′	″			
1911												
Nov.	21	Fn.	EII	4	24	56.085	−13	14	46.32	0	5.6	3
	22	Hd.	EII			56.144			46.32	0	6.0	2
Dec.	1	R.	WII			56.220			46.49	0	---	2½
	5	Hd.	WII			56.193			47.10	0	6.0	3
1915												
Sept.	28	Hd.	EI			56.183			46.20	0	6.0	3
Oct.	9	Hd.	WI			56.201			46.73	0	6.0	3
	11	Hd.	WI			56.178			46.60	0	6.0	3
Nov.	1	Hd.	EI			56.172			46.22	0	6.0	3½
Mean		1913.84		4	24	56.172	−13	14	46.50			
Corr						−0.081			−0.12			

Bradley 620

				h	m	s	°	′	″			
1912												
Oct.	5	R.	EII	4	25	30.785	+15	29	48.81	0	6.0	3½
	7	R.	WII			30.766			49.26	0	6.0	1½
	8	R.	WII			30.749			48.27	0	5.5	1
	25	Fn.	EII			30.793			48.88	0	5.5	1½
1913												
Dec.	27	Wy.	WI			30.841			48.55	0	5.5	2
	29	Fn.	WI			30.766			48.32	0	5.5	1½
1914												
Jan.	5	R.	EI			30.783			47.28	0	6.0	2½
	6	Fn.	EI			30.746			47.92	0	5.5	2
	21	Hd.	WI			30.783			48.31	0	5.5	2
Mean		1913.47		4	25	30.779	+15	29	48.40			
Corr						−0.081			−0.22			

Lalande 8455

				h	m	s	°	′	″			
				4	26	16.928	+36	51	0.94			
1911												
Nov.	15	Fn.	EII			16.928			0.94	0	6.9	2
	16	R.	EII			17.024			0.96	0	7.0	2
	25	Hd.	WII			16.979			1.05	0	6.5	--
	30	R.	WII			16.936			1.73	0	7.0	4
1915												
Sept.	22	Wy.	EI			17.004			0.46	0	6.5	3
	24	Hd.	EI			16.982			1.17	0	6.5	3
Oct.	12	Fn.	WI			16.945			0.39	0	---	2
	21	Fn.	WI			17.027			0.93	0	7.0	3
Mean			1913.82	4	26	16.978	+36	51	0.95			
Corr						−0.081			−0.26			

m Persei

				h	m	s	°	′	″			
				4	27	4.759	+42	52	20.77			
1911												
Dec.	25	R.	EII			+0.094			+0.52	0	---	--
	27	R.	EII			+0.050			+0.86	0	---	--
1912												
Jan.	15	Fn.	WII			−0.011			−0.05	0	5.8	2
	16	R.	WII			+0.043			+0.57	0	6.5	2
1914												
Nov.	23	Fn.	EI			+0.029			−0.41	0	5.5	2
Dec.	16	An.	WI			+0.009			+0.79	0	---	2
	17	Fn.	WI			−0.017			+0.98	0	---	2
1915												
Jan.	4	Hd.	EI			+0.048			+0.11	0	6.0	2
	5	Wy.	EI			−0.006			----	0	---	2
	13	An.	WI			−0.022			----	I	5.9	2
	14	Hd.	WI			+0.007			----	0	6.0	2
	28	Fn.	EI			+0.009			----	0	6.0	2½
Dec.	23	Wy.	WI			+0.006			----	0	6.5	3½
	27	Wy.	WI			+0.029			----	0	---	3½
1916												
Jan.	3	Hd.	EI			+0.052			----	0	6.0	2
	24	Hd.	EI			−0.012			----	0	6.0	2
	27	Wy.	EI			−0.003			----	0	---	3½
Feb.	3	Hd.	EI			+0.025			----	0	6.0	2
	21	Fn.	WI			+0.046			----	0	6.0	2½
1917												
Jan.	2	Wy.	WI			+0.013			----	0	6.5	3
1918												
Jan.	17	Fn.	EII			+0.051			----	0	6.5	2½
Mean			1915.02			+0.021			+0.42			
			1913.48									
Corr						−0.081			−0.28			

α Tauri

				h	m	s	°	′	″			
				4	30	45.300	+16	19	43.59			
1911						s			″			
June	*19*	*Hd.*	*EII*			*−0.019*			*−0.66*	*0*	---	--
	20	*T.*	*EII*			*−0.009*			*−0.72*	*0*	---	--
	23	*T.*	*EII*			-----			*−0.37*	*0*	---	--
	26	*Hd.*	*WII*			*+0.016*			*+0.12*	*0*	---	--
	27	*T.*	*WII*			*+0.050*			*−0.46*	*0*	---	--
	28	*Fn.*	*WII*			*+0.060*			*−0.29*	*0*	---	--
	29	*Hd.*	*WII*			*+0.041*			*−0.77*	*0*	-	--
July	*4*	*R.*	*EII*			*+0.138*			*−0.35*	*0*	---	--
	5	*Fn.*	*EII*			*+0.003*			*−0.80*	*0*	---	--
	9	*Fn.*	*WII*			*+0.038*			*−0.37*	*0*	---	--
	10	*Hd.*	*WII*			-----			*−1.76*	*0*	---	--
	12	*Fn.*	*WII*			-----			*−0.37*	*0*	---	--
	18	*R.*	*EII*			*+0.080*			*−0.73*	*0*	---	--
	20	*Hd.*	*EII*			-----			*−0.33*	*0*	---	*3½*
	21	*R.*	*EII*			*+0.046*			*−0.40*	*0*	---	*5*
	24	*Hd.*	*EII*			*+0.100*			*+0.08*	*0*	---	*4*
	25	*R.*	*WII*			*+0.103*			*−0.38*	*0*	---	--
	26	*Fn.*	*WII*			*+0.036*			*−0.66*	*0*	---	--
	27	*Hd.*	*WII*			*+0.060*			*−0.16*	*0*	---	*4*
	28	*R.*	*WII*			*+0.065*			*−0.66*	*0*	---	--
	30	*Fn.*	*WII*			*+0.105*			*−0.30*	*0*	---	--
1911						s			″			
July	*31*	*Hd.*	*WII*			*+0.032*			*−0.15*	*0*	---	*3½*
Aug.	*6*	*Fn.*	*WII*			*+0.062*			*+0.03*	*0*	---	--
	9	*R.*	*EII*			*+0.055*			*−0.16*	*II*	---	-
	10	*Fn.*	*EII*			-----			*−0.57*	*0*	---	*2½*
	15	*Fn.*	*EII*			*+0.047*			*−0.23*	*I*	---	*2½*
	18	*R.*	*EII*			*+0.065*			*−0.20*	*II*	---	--
	20	*Fn.*	*EII*			*−0.043*			*−0.15*	*I*	---	--
	21	*R.*	*EII*			*+0.080*			*+1.09*	*II*	---	-
	22	*Fn.*	*WII*			-----			*−0.16*	*I*	---	*2½*
Nov.	18	R.	EII			+0.013			----	II	---	--
	22	Hd.	EII			+0.075			−0.25	II	1.6	2
Dec.	1	R.	WII			+0.014			----	I	---	3
	4	Hd.	WII			+0.033			----	II	1.1	--
	7	Hd.	WII			+0.019			+0.31	II	1.1	--
	17	R.	EII			+0.024			+0.13	II	0.6	3
	19	Hd.	EII			+0.046			−0.11	II	1.1	--
1912												
Jan.	19	Fn.	WII			+0.059			----	II	1.0	1½
	20	R.	WII			+0.055			+0.10	II	1.1	2
	21	Hd.	WII			+0.021			+0.01	II	1.1	3
	22	Hd.	WII			+0.005			−0.10	II	1.1	3
	23	Fn.	EII			+0.040			−0.38	I	---	3½
	24	R.	EII			+0.052			+0.45	II	1.6	2
Feb.	5	Fn.	WII			+0.042			+0.87	II	0.8	2½
	8	Fn.	EII			+0.030			−0.40	II	0.5	2
	9	Hd.	EII			+0.039			−0.27	II	1.1	3
	10	R.	EII			+0.028			----	II	1.1	1
June	*7*	*R.*	*EII*			*+0.014*			*−0.16*	*0*	---	--
July	*26*	*Fn.*	*WII*			*+0.022*			*−0.83*	*0*	---	*3*
	29	*R.*	*WII*			*+0.031*			*−0.36*	*0*	---	*4*
Aug.	*2*	*R.*	*EII*			*+0.052*			*−0.34*	*0*	---	*4*
	4	*Fn.*	*EII*			*+0.031*			*+0.45*	*0*	---	*2½*
Oct.	8	R.	WII			+0.068			----	II	1.1	1½
	29	R.	EII			+0.045			----	II	---	2
Nov.	1	Fn.	WII			+0.100			----	II	0.9	2
	4	R.	WII			+0.014			−0.32	II	---	3½
	12	R.	EII			+0.069			----	II	---	2
	14	R.	EII			+0.052			----	I	---	3
	26	Hd.	WII			+0.036			----	II	1.1	3
	29	Fn.	WII			+0.033			----	II	0.6	2½
	30	Hd.	WII			+0.050			+0.34	II	1.1	2
Dec.	3	R.	WII			+0.020			+0.10	II	1.1	2
	6	Fn.	WII			+0.074			----	0	---	2½
	12	R.	EII			+0.051			----	II	1.1	2½
	13	Hd.	EII			+0.032			----	II	1.1	2
	14	R.	EII			+0.072			+0.70	II	---	1½
	15	Fn.	EII			0.000			+0.25	II	0.4	3
	19	Hd.	EII			+0.042			+0.64	II	1.1	2
	22	Fn.	EII			+0.005			----	I	---	2
	27	Fn.	WII			+0.019			----	I	---	4
	28	Hd.	WII			+0.033			+0.18	II	1.1	2
	30	Fn.	WII			+0.066			----	II	0.8	2½
1913												
Jan.	4	Hd.	WII			+0.050			----	II	1.1	2
	8	Fn.	WII			+0.064			----	II	---	3½
	9	R.	WII			+0.060			−0.46	I	---	3
	14	R.	WII			+0.046			−0.87	II	1.1	1½
	15	Fn.	WII			+0.048			----	II	1.6	2½
	18	Hd.	EII			+0.032			----	II	1.1	3
	19	Hd.	EII			+0.039			+0.16	II	1.6	2
	21	Hd.	EII			+0.063			+0.66	II	1.1	2
	22	Fn.	EII			+0.062			----	II	0.6	1½
	25	Hd.	EII			+0.053			----	II	1.1	2
	30	Hd.	WII			+0.039			----	II	1.3	3
Feb.	1	Hd.	WII			+0.032			----	II	0.9	2
	4	Hd.	WII			+0.053			----	II	1.1	2
June	*11*	*Hd.*	*EII*			*+0.052*			*−0.76*	*0*	---	*3½*
	15	*Hd.*	*EII*			-----			*−0.84*	*0*	---	--
	17	*R.*	*EII*			*+0.121*			*+0.02*	*0*	---	*4*
	27	*R.*	*EII*			-----			*−0.50*	*0*	---	--
	29	*Hd.*	*EII*			*+0.048*			*−0.09*	*0*	---	*4*
	30	*Fn.*	*EII*			-----			*−0.62*	*0*	---	*3½*
July	*2*	*R.*	*EII*			*+0.032*			*+0.19*	*0*	---	*5*
	6	*Hd.*	*WII*			*+0.031*			*−0.61*	*0*	---	*3*
	7	*Fn.*	*WII*			*+0.056*			*−0.55*	*0*	---	*3½*
	9	*Fn.*	*WII*			*+0.159*			*−0.34*	*0*	---	*4*
	10	*Hd.*	*WII*			*+0.078*			*+1.44*	*0*	---	*3½*
Nov.	4	Fn.	EI			+0.023			+0.28	II	0.6	2

				s	"	"			
1913									
Nov. 5	R.	EI	+0.028		+0.10	III	0.5	2	
10	Hd.	WI	+0.061		−0.16	II	1.1	3	
17	Hd.	WI	+0.056		+0.40	II	1.1	3	
20	Hd.	WI	+0.071		+0.14	II	1.1	3	
Dec. 3	R.	EI	+0.041		−0.51	II	0.6	2½	
1914									
Jan. 8	R.	EI	+0.030		----	II	1.6	3	
20	Fn.	WI	+0.079		+0.11	0	---	3½	
21	Hd.	WI	+0.063		----	II	2.1	2	
22	Hd.	WI	+0.028		----	I	---	2	
25	Fn.	WI	+0.010		+0.01	II	1.6	2	
26	R.	WI	+0.032		----	II	1.6	3½	
27	Fn.	WI	+0.035		−0.04	I	---	3½	
28	Wy.	WI	+0.078		----	II	1.6	3	
29	R.	WI	+0.048		----	II	---	4	
Feb. 2	Fn.	WI	+0.088		----	II	0.6	3	
3	Wy.	EI	+0.041		----	II	1.1	2½	
4	Hd.	EI	+0.029		----	II	1.1	2	
7	Hd.	EI	+0.022		----	II	1.1	2	
9	Fn.	EI	+0.003		----	II	0.6	2	
11	Hd.	EI	+0.043		----	II	1.1	3	
12	Fn.	EI	+0.028		+0.02	I	---	1½	
14	Hd.	WI	+0.045		----	II	---	2	
15	Fn.	WI	+0.066		----	II	---	1½	
16	Fn.	WI	+0.029		----	II	1.6	2	
21	Hd.	WI	+0.037		−0.24	II	1.1	1	
25	Hd.	EI	−0.004		----	I	---	2	
June 1	*Fn.*	*EI*	*+0.104*	*−0.38*	*−0.13*	*0*	---	*3½*	
2	*Wy.*	*EI*	*−0.020*	*−0.40*	*−0.24*	*0*	---	*4*	
7	*Fn.*	*EI*	*+0.035*	*−1.02*	*−0.94*	*0*	---	*3½*	
10	*Fn.*	*EI*	*+0.026*	*−0.29*	*−0.16*	*0*	---	*3½*	
11	*Hd.*	*EI*	-----	*+0.11*	*+0.22*	*0*	---	*3½*	
12	*Wy.*	*EI*	*+0.143*	*−1.28*	*−0.98*	*0*	---	*4*	
15	*Hd.*	*EI*	*+0.109*	*−0.18*	*−0.12*	*I*	---	*3*	
16	*Wy.*	*EI*	*+0.148*	*−0.02*	*+0.08*	*0*	---	*4*	
19	*Wy.*	*WI*	*−0.033*	*+0.23*	*+0.29*	*0*	---	*3½*	
22	*Hd.*	*WI*	*+0.021*	*−0.75*	*−0.70*	*0*	---	*3½*	
23	*Wy.*	*WI*	*+0.027*	*−0.83*	*−0.78*	*0*	---	*3½*	
25	*Hd.*	*WI*	-----	*−0.87*	*−0.82*	*0*	---	*3½*	
26	*Wy.*	*WI*	*+0.149*	*−0.19*	*−0.20*	*0*	---	*3½*	
28	*Fn.*	*WI*	*+0.075*	*−0.23*	*−0.16*	*0*	---	*3½*	
29	*Hd.*	*WI*	*+0.058*	*+0.19*	*+0.23*	*0*	---	*3*	
July 2	*Hd.*	*WI*	*+0.066*	*−0.15*	*−0.11*	*I*	---	*2½*	
7	*Fn.*	*WI*	*+0.015*	*−0.75*	*−0.73*	*0*	---	*3½*	
16	*Hd.*	*WI*	*+0.069*	*+0.05*	*+0.06*	*0*	---	*3*	
19	*Fn.*	*EI*	*+0.056*	*+0.42*	*+0.40*	*0*	---	*3½*	
20	*Hd.*	*EI*	*+0.079*	*−0.10*	*−0.18*	*I*	---	*3*	
21	*Fn.*	*EI*	*+0.038*	*+0.10*	*+0.07*	*0*	---	*3½*	
22	*Hd.*	*EI*	-----	*−0.70*	*−0.72*	*I*	---	*3*	
26	*Fn.*	*EI*	*+0.066*	*+0.36*	*+0.29*	*0*	---	*3½*	
28	*Fn.*	*EI*	*+0.055*	*+0.22*	*+0.17*	*0*	---	*3*	
30	*Fn.*	*EI*	*+0.047*	*+0.83*	*+0.79*	*0*	---	*3*	
Nov. 28	Wy.	EI	+0.069		----	I	---	2½	
Dec. 12	An.	WI	+0.031		----	I	---	--	
1915									
Jan. 5	Wy.	EI	+0.064		----	II	1.6	2½	
9	An.	EI	+0.048		----	III	1.0	2	
14	Hd.	WI	+0.016		----	II	1.1	2	
15	Fn.	WI	+0.075		----	II	1.1	2½	
21	Wy.	EI	+0.054		----	I	---	3	
28	Fn.	EI	+0.031		----	II	1.1	2½	
29	Wy.	EI	+0.038		+0.10	II	1.1	2½	
May 14	*Fn.*	*WI*	*+0.122*	----	----	*0*	---	*3½*	
25	*Fn.*	*WI*	*+0.133*	----	----	*0*	---	*3½*	
June 4	*Hd.*	*WI*	-----	*−0.71*	*−0.64*	*0*	---	*3*	
7	*Hd.*	*EI*	*+0.051*	*−0.64*	*−0.55*	*0*	---	*3*	
8	*An.*	*EI*	*+0.008*	*+0.56*	*+0.70*	*0*	---	*4*	
10	*Hd.*	*WI*	-----	*−1.18*	*−1.15*	*0*	---	*3*	
11	*An.*	*WI*	*+0.093*	----	----	*0*	---	*3½*	
13	*Fn.*	*WI*	-----	*−1.42*	*−1.30*	*0*	---	*4*	
17	*Hd.*	*WI*	*+0.060*	*−1.00*	*−0.95*	*0*	---	*3½*	
18	*Wy.*	*WI*	*+0.090*	*−0.69*	*−0.68*	*0*	---	*3½*	
22	*An.*	*EI*	-----	*−0.73*	*−0.67*	*I*	---	*3*	
24	*Wy.*	*EI*	-----	*+0.61*	*+0.67*	*0*	---	*3½*	
27	*Wy.*	*EI*	*+0.040*	*+0.77*	*+0.84*	*0*	---	*4*	
28	*Hd.*	*EI*	*+0.078*	*−0.06*	*−0.06*	*I*	---	*3*	
30	*Wy.*	*WI*	-----	*−0.05*	*0.00*	*0*	---	*3½*	
July 1	*Hd.*	*WI*	*+0.019*	*−0.47*	*−0.44*	*0*	---	*3½*	
1915									
July 5	*Fn.*	*WI*	*−0.008*	*−0.79*	*−0.75*	*0*	---	*4*	
6	*An.*	*WI*	-----	*+0.12*	*+0.07*	*0*	---	*3½*	
8	*Fn.*	*WI*	*+0.039*	*−0.01*	*+0.01*	*0*	---	*3½*	
13	*An.*	*WI*	*+0.038*	*−0.77*	*−0.75*	*I*	---	*3*	
14	*Hd.*	*WI*	-----	*−0.50*	*−0.50*	*0*	---	*3½*	
15	*Fn.*	*WI*	*+0.073*	*−0.49*	*−0.47*	*0*	---	*3½*	
16	*An.*	*WI*	*+0.071*	*−0.88*	*−0.92*	*0*	---	*3½*	
18	*Fn.*	*EI*	-----	*−0.44*	*−0.45*	*0*	---	*3½*	
20	*An.*	*EI*	*+0.043*	*+0.17*	*+0.14*	*0*	---	*3½*	
23	*An.*	*EI*	*+0.044*	*+0.15*	*+0.14*	*0*	---	*3½*	
25	*Fn.*	*EI*	*+0.068*	*−0.56*	*−0.62*	*0*	---	*3½*	
26	*Hd.*	*EI*	*+0.066*	----	----	*0*	---	*3*	
30	*An.*	*EI*	*+0.053*	*−0.53*	*−0.53*	*I*	---	*3½*	
Aug. 2	*An.*	*EI*	-----	*+0.27*	*+0.28*	*0*	---	*3*	
5	*An.*	*EI*	-----	*−0.30*	*−0.28*	*I*	---	*3*	
Sept. 22	Wy.	EI	+0.051		----	II	1.1	3	
24	Hd.	EI	+0 058		+0.31	II	2.1	3½	
28	Hd.	EI	+0.047		----	II	1.6	2	
29	Fn.	EI	+0.047		----	II	1.6	3	
Oct. 9	Hd.	WI	+0.032		----	II	1.1	2	
11	Hd.	WI	+0.015		----	II	1.1	2	
12	Fn.	WI	+0.040		−0.15	II	1.1	2½	
21	Fn.	WI	+0.062		−0.13	II	1.1	3	
25	Wy.	WI	+0.043		−0.28	II	1.6	3	
27	Fn.	WI	+0.008		----	II	1.1	3	
28	Wy.	EI	+0 039		----	II	1.6	3	
29	Hd.	EI	+0.062		----	II	---	3	
Nov. 1	Hd.	EI	+0.069		+0.15	II	2.6	3½	
3	Wy.	EI	+0.066		----	II	1.1	2	
5	Fn.	EI	+0.040		----	II	1.1	2	
7	Hd.	EI	+0.051		----	II	1.1	2	
9	Wy.	WI	+0.016		----	II	1.6	2	
10	Hd.	WI	+0.027		----	II	1.3	2	
11	Fn.	WI	+0.042		----	I	---	2½	
15	Wy.	WI	+0.001		----	II	1.1	2½	
16	Hd.	WI	+0.051		+0.01	II	1.6	2½	
17	Fn.	WI	+0.021		−0.21	II	1.6	2	
22	Hd.	EI	+0.061		+0.05	II	1.1	2	
23	Fn.	EI	+0.067		−0.37	II	1.1	2½	
24	Wy	EI	+0.010		−0.55	II	1.1	2	
Dec. 23	Wy.	WI	+0.030		+0.04	II	1.6	3½	
1916									
Jan. 3	Hd.	EI	+0.026		−0.10	II	1.1	2	
8	Hd.	EI	+0.038		−0.18	II	1.1	2½	
19	Fn.	EI	+0.069		+0.56	I	---	2	
24	Hd.	EI	+0.052		+0.28	II	1.1	2	
25	Fn.	EI	+0.035		+0.47	II	---	2½	
26	Wy.	EI	+0.019		+0.04	I	---	3	
27	Wy.	EI	+0.026		+0.36	I	---	3½	
Feb. 3	Hd.	EI	+0.041		−0.83	II	1.1	3	
7	Wy.	EI	+0.080		----	II	1.6	3½	
15	Fn.	WI	+0.024		----	II	1.1	2½	
21	Fn.	WI	+0 057		----	II	1.1	2½	
June 11	*Wy.*	*EI*	*+0.013*	----	----	*0*	---	*4*	
12	*Fn.*	*EI*	*+0.038*	*−0.58*	*−0.50*	*0*	---	*3½*	
21	*Fn.*	*WI*	*+0.028*	*−0.76*	*−0.63*	*0*	---	*4*	
22	*Hd.*	*WI*	*+0.004*	*−0.95*	*−0.89*	*0*	---	*3½*	
25	*Hd.*	*WI*	*+0.072*	*−1.43*	*−1.41*	*0*	---	*3½*	
28	*Hd.*	*WI*	*+0.097*	*−0.46*	*−0.36*	*0*	---	*4*	
July 2	*Wy.*	*WI*	*+0.069*	*−1.02*	*−0.97*	*0*	---	*3½*	
5	*Wy.*	*EI*	*+0.077*	*−0.49*	*−0.43*	*I*	---	*3½*	
6	*Fn.*	*EI*	*+0.077*	*−0.90*	*−0.75*	*0*	---	*3½*	
12	*Hd.*	*EI*	*+0.083*	*−1.34*	*−1 34*	*I*	---	*3½*	
20	*Wy.*	*EI*	*+0.066*	*−0.51*	*−0.53*	*0*	---	*3½*	
Aug. 16	*Fn.*	*EI*	*+0.033*	*+0.32*	*+0.31*	*0*	---	*2½*	
21	*Fn.*	*EI*	*+0.030*	*−0.32*	*−0.36*	*0*	---	*3½*	
24	*Fn.*	*WI*	*+0.055*	----	----	*I*	---	*2*	
Dec. 29	Hd.	WI	+0.068		−0.05	II	1.1	2	
1917									
Jan. 2	Wy.	WI	+0.050		+0.16	II	1.6	2½	
18	Fn.	EI	+0.013		−0.49	0	---	3½	
19	Hd.	EI	+0.051		+0.22	II	1.1	2	
Mar. 19	*Fn.*	*EI*	*+0.032*	*+0.16*	*+0.22*	*0*	---	*3*	
22	*Fn.*	*EI*	*+0.009*	*−0.90*	*−0.87*	*0*	---	*3*	
30	*Fn.*	*WI*	*+0.093*	*−0.58*	*−0.53*	*0*	---	*3½*	
Apr. 3	*Hd.*	*WI*	*+0.017*	*−0.80*	*−0.74*	*I*	---	*3*	
10	*Fn.*	*WI*	*−0.016*	*−0.15*	*−0.10*	*0*	---	*3½*	
16	*Fn.*	*WI*	*+0.049*	*−0.37*	*−0.34*	*0*	---	*3½*	

				s	″	″			
1917									
Apr. 17	*Wy.*	*WI*		*+0.075*	*−0.02*	*−0.01*	*0*	---	*4*
23	*Wy.*	*EI*		*−0.018*	*−0.47*	*−0.38*	*0*	---	*3½*
May 18	*Hd.*	*WI*		*+0.020*	*−1.15*	*−1.10*	*0*	---	*3½*
June 18	*Fn.*	*WII*		*+0.044*	----	----	*0*	---	*3½*
21	*Fn.*	*WII*		*+0.031*	*−1.26*	*−1.18*	*0*	---	*3½*
24	*Wy.*	*WII*		*−0.033*	*−0.91*	*−0.84*	*0*	---	*4*
27	*Wy.*	*EII*		-----	*−0.49*	*−0.41*	*0*	---	*4*
July 1	*Hd.*	*EII*		-----	*−0.85*	*−0.83*	*0*	---	*3½*
16	*Wy.*	*EII*		-----	*−0.13*	*−0.16*	*0*	---	*3½*
29	*Wy.*	*EII*		*+0.021*	*−0.52*	*−0.57*	*I*	---	*3½*
30	*Wy.*	*EII*		*+0.024*	*−0.73*	*−0.74*	*0*	---	*3*
Aug. 5	*Hd.*	*WII*		*+0.066*	*−0.30*	*−0.38*	*I*	---	*3*
12	*Fn.*	*WII*		*+0.047*	*−0.50*	*−0.52*	*0*	---	*2½*
17	*Wy.*	*WII*		*+0.079*	*−0.24*	*−0.22*	*II*	---	*3*
19	*Fn.*	*WII*		*+0.022*	*+0.19*	*+0.15*	*0*	---	*3*
1918									
Jan. 10	Fn.	EII		+0.049		−0.14	I	1.9	2½
17	Fn.	EII		+0.037		----	I	---	2½
21	Fn.	WII		+0.076		−0.14	I	---	1½
Feb. 11	Wy.	WII		−0.004		+0.18	II	1.6	3½
12	Fn.	WII		0.000		−0.85	I	1.9	3
15	Fn.	WII		+0.015		−1.31	I	1.9	3½
18	Fn.	EII		+0.054		−0.34	II	1.1	2
21	Fn.	EII		+0.035		−0.96	II	1.6	2
Mar. 25	*Fn.*	*WII*		*−0.033*	*−0.33*	*−0.32*	*0*	---	*3*
28	*Fn.*	*WII*		*+0.024*	*−0.87*	*−0.84*	*0*	---	*3*
June 18	*Wy.*	*WII*		*+0.109*	*−0.79*	*−0.68*	*0*	---	*4*
23	*Wy.*	*WII*		*−0.002*	*−0.99*	*−0.93*	*0*	---	*3½*
26	*Wy.*	*WII*		*+0.039*	*−2.23*	*−2.14*	*0*	---	*3½*
July 1	*Hd.*	*WII*		*+0.051*	*−0.92*	*−0.88*	*I*	---	*3½*
8	*Hd.*	*EII*		*+0.058*	*−0.75*	*−0.70*	*0*	---	*3*
10	*Wy.*	*EII*		*+0.042*	*−0.66*	*−0.63*	*0*	---	*4*
14	*Wy.*	*EII*		*−0.036*	*−0.45*	*−0.42*	*I*	---	*3½*
15	*Hd.*	*EII*		*+0.042*	*−1.17*	*−1.22*	*I*	---	*3½*
22	*Fn.*	*EII*		*+0.054*	*−0.53*	*−0.56*	*0*	---	*3½*
24	*Fn.*	*EII*		*+0.044*	*+0.76*	*+0.70*	*0*	---	*3½*
Aug. 1	*Hd.*	*WII*		*+0.054*	*−0.38*	*−0.43*	*I*	---	*3*
8	*Hd.*	*WII*		*+0.067*	*−0.09*	*−0.19*	*I*	---	*3½*
11	*Fn.*	*WII*		*+0.055*	*−0.84*	*−0.85*	*0*	---	*3*
12	*Wy.*	*WII*		*+0.058*	*−0.38*	*−0.39*	*I*	---	*3*
14	*Fn.*	*WII*		*−0.012*	*−0.24*	*−0.30*	*0*	---	*3*
15	*Hd.*	*WII*		*+0.076*	*−0.77*	*−0.85*	*I*	---	*3*
Mean	1914.43			+0.042		−0.04			
	1914.67								
Corr				−0.081		−0.22			

ν Eridani

				h m s	° ′ ″			
				4 31 49.260	−3 32 8.99			
1912								
Oct. 10	R.	WII		+0.029		[+1.96]	I	4.4 1½
15	R.	WII		+0.025		−0.30	I	3.9 3
29	R.	EII		+0.051		+0.09	I	3.9 2
Nov. 12	R.	EII		+0.031		−0.51	0	--- 2
1913								
Dec. 29	Fn.	WI		+0.098		−1.28	I	3.9 2
30	Wy.	WI		+0.012		−0.23	I	3.9 2½
1914								
Jan. 5	R.	EI		+0.053		−0.55	I	4.4 2½
6	Fn.	EI		+0.037		+0.15	I	4.4 2½
21	Hd.	WI		+0.043		−0.07	I	--- 2
Mean	1913.48			+0.042		−0.34		
	1913.57							
Corr				−0.081		−0.16		

ν^7 Eridani

				h m s	° ′ ″			
1911								
Nov. 19	Fn.	EII		4 32 3.086	−30 44 45.43		0	--- 4½
21	Fn.	EII		3.080	47.03		I	3.4 4½
Dec. 5	Hd.	WII		3.104	47.34		I	3.9 4
6	Hd.	WII		3.105	47.18		I	3.4 1
1915								
Oct. 22	Hd.	WI		3.128	47.79		0	--- 4
23	Wy.	WI		3.151	46.59		I	3.9 3½
1915								
Oct. 29	Hd.	EI		3.122	46.95		0	--- 4
30	Fn.	EI		3.087	46.57		I	4.4 3½
Mean	1913.86			4 32 3.108	−30 44 46.86			
Corr				−0.081	+0.05			

Bradley 640

				h m s	° ′ ″			
1912								
Oct. 5	R.	EII		4 32 35.372	+0 48 59.38		0	6.0 4½
7	R.	WII		35.347	60.17		0	5.5 1½
8	R.	WII		35.328	60.35		0	--- 2
26	R.	EII		35.371	60.05		0	5.5 3½
1914								
Jan. 8	R.	EI		35.337	59.06		0	6.0 3
26	R.	WI		35.368	61.20		0	--- 4½
29	R.	WI		35.335	59.13		0	--- 4
Feb. 4	Hd.	EI		35.346	59.66		0	6.0 2½
Mean	1913.42			4 32 35.350	+0 48 59.88			
Corr				−0.081	−0.18			

Pulkowa 1855, 697

				h m s	° ′ ″			
1911								
Nov. 15	Fn.	EII		4 32 57.162	+20 30 15.76		0	6.3 2
16	R.	EII		57.159	16.26		0	6.0 1
25	Hd.	WII		57.193	16.57		0	6.0 -
30	R.	WII		57.208	16.19		0	6.5 4
1915								
Sept. 28	Hd.	EI		57.197	16.04		0	6.5 3
29	Fn.	EI		57.171	15.46		0	6.0 3
Oct. 9	Hd.	WI		57.149	16.16		0	6.0 2½
11	Hd.	WI		57.133	15.99		0	6.0 2
Mean	1913.82			4 32 57.172	+20 30 16.05			
Corr				−0.081	−0.23			

Bradley 642

				h m s	° ′ ″			
1912								
Nov. 5	Fn.	WII		4 33 4.320	−2 39 10.51		0	--- 1½
9	Fn.	WII		4.308	11.39		0	5.4 2
18	Fn.	EII		4.298	10.28		0	5.2 1½
20	Fn.	EII		4.337	11.12		0	5.0 2
1914								
Feb. 9	Fn.	EI		4.252	10.64		0	5.5 2½
11	Hd.	EI		4.310	10.92		0	6.0 3
15	Fn.	WI		4.354	11.11		0	6.0 2
16	Fn.	WI		4.342	11.14		0	5.5 2½
Mean	1913.50			4 33 4.315	−2 39 10.89			
Corr				−0.081	−0.17			

Cape 1880, 1987

				h m s	° ′ ″			
1912								
Jan. 27	R.	EII		4 33 21.334	−30 53 53.12		0	--- 5
Feb. 2	Hd.	WII		21.372	54.41		0	7.0 3
4	Fn.	WII		21.370	54.12		0	--- 4
6	Hd.	EII		21.309	54.45		0	6.5 4
1915								
Oct. 27	Fn.	WI		21.292	54.58		0	7.0 3½
28	Wy.	EI		21.350	54.67		0	7.5 4
Nov. 3	Wy.	EI		21.337	54.69		0	6.5 3
9	Wy.	WI		21.313	54.68		0	7.0 3½
Mean	1913.96			4 33 21.335	−30 53 54.34			
Corr				−0.081	+0.05			

Radcliffe 1845, 1260

				h m s	° ′ ″			
1911								
Dec. 27	R.	EII		4 33 30.76	+76 26 33.61		0	6.5 5
1912								
Jan. 9	R.	EII		30.67	33.53		0	--- 5
16	R.	WII		30.66	33.22		0	7.0 3
19	Fn.	WII		30.60	33.14		0	6.5 2½

				h m s	° ′ ″			
1912								
Dec. 20	Fn.	EII		30.63	33.28	0	6.5	2½
30	Fn.	WII		30.61	32.50	0	6.5	3
1913								
Jan. 4	Hd.	WII		30.54	32.81	0	6.5	3
18	Hd.	EII		30.58	32.34	0	6.5	3½
1914								
Feb. 2	Fn.	WI		30.51	32.70	0	6.5	3
3	Wy.	EI		30.41	32.73	0	6.5	2
7	Hd.	EI		30.76	32.90	0	7.0	3
14	Hd.	WI		30.71	32.75	0	7.5	2
1915								
Nov. 5	Fn.	EI		30.58	32.32	0	6.5	2
7	Hd.	EI		30.73	32.53	0	6.0	2
10	Hd.	WI		30.63	33.03	0	7.0	2
15	Wy.	WI		30.45	32.76	0	6.5	3
Mean		1913.75	4 33	30.614	+76 26 32.88			
Corr				−0.081	−0.35			

Radcliffe 1845, 1260 s. p.

				h m s	° ′ ″			
1913								
Mar. 11	R.	EII	4 33	30.43	+76 26 32.22	0	7.0	2
18	R.	WII		30.55	32.36	0	6.5	2½
Apr. 1	R.	EII		30.37	31.52	0	7.5	3
17	R.	WII		30.64	32.03	0	7.5	3
1914								
May 18	Fn.	WI		30.43	32.41	0	7.0	3
19	Wy.	WI		30.25	31.34	0	---	3½
20	Hd.	WI		30.51	31.68	0	7.5	3½
June 16	Hd.	EI		30.56	32.02	0	6.5	3
17	Wy.	EI		30.58	31.95	0	7.5	3
Mean		1913.89	4 33	30.480	+76 26 31.95			
Corr				−0.081	+0.52			

53 Eridani

				h m s	° ′ ″			
			4 34	3.404	−14 28 46.25			
1912								
Nov. 26	Hd.	WII		+0.082	−0.46	I	3.9	3
29	Fn.	WII		+0.183	−0.73	I	3.4	3½
Dec. 12	R.	EII		+0.079	−0.36	I	---	3
13	Hd.	EII		+0.157	−0.55	I	4.4	3
1914								
Nov. 24	Hd.	EI		+0.100	−0.75	0	---	2½
Dec. 17	Fn.	WI		+0.139	−1.36	0	---	2½
23	Hd.	WI		+0.193	−0.78	0	---	3½
1915								
Jan. 4	Hd.	EI		+0.058	−1.18	I	3.9	3
Mean		1913.94		+0.124	−0.77			
Corr				−0.081	−0.12			

Lalande 8781

				h m s	° ′ ″			
1913								
Jan. 22	Fn.	EII	4 34	3.907	−17 59 43.45	0	8.5	3
25	Hd.	EII		3.932	43.14	0	7.5	3
Feb. 1	Hd.	WII		3.883	43.11	0	7.5	3
4	Hd.	WII		3.908	44.41	0	8.0	3
1915								
Jan. 9	An.	EI		3.884	42.36	0	8.0	3
14	Hd.	WI		3.984	43.60	0	7.5	3
15	Fn.	WI		3.929	44.21	0	7.5	3
21	Wy.	EI		3.970	43.16	0	---	4
29	Wy.	EI		3.899	44.18	0	7.5	3
Mean		1914.17	4 34	3.922	−17 59 43.51			
Corr				−0.081	−0.09			

Bradley 646

				h m s	° ′ ″			
1913								
Jan. 8	Fn.	WII	4 35	2.689	+12 1 16.87	0	---	4½
14	R.	WII		2.687	17.36	0	5.5	1½
19	Hd.	EII		2.723	-----	0	6.0	2
1913								
Jan. 26	Hd.	EII		2.692	17.04	0	6.0	3
28	R.	EII		-----	17.06	D	5.5	1½
1914								
Nov. 21	Fn.	EI		2.679	16.56	0	6.0	2
23	Fn.	EI		2.686	17.51	0	5.5	2½
Dec. 16	An.	WI		2.674	17.23	0	6.0	2½
21	Fn.	WI		2.731	17.04	0	6.0	3
Mean		1913.99	4 35	2.695	+12 1 17.08			
		1913.99						
Corr				−0.081	−0.21			

Bradley 653

				h m s	° ′ ″			
1911								
Dec. 19	Hd.	EII	4 36	30.299	−19 50 37.77	I	4.4	3½
25	R.	EII		30.294	37.42	I	4.4	2
1912								
Jan. 20	R.	WII		30.275	38.26	I	3.9	2½
21	Hd.	WII		30.416	38.35	I	3.9	4
1915								
Oct. 23	Wy.	WI		30.313	38.57	I	3.9	3½
25	Wy.	WI		30.336	38.82	I	4.9	3½
30	Fn.	EI		30.280	37.94	0	4.5	3
Nov. 1	Hd.	EI		30.324	38.22	0	5.0	3½
Mean		1913.92	4 36	30.317	−19 50 38.17			
Corr				−0.081	−0.08			

Groombridge 866

				h m s	° ′ ″			
1912								
Jan. 22	Hd.	WII	4 36	30.891	+49 48 9.79	D	5.8	3
23	Fn.	EII		30.919	9.15	D	---	3
24	R.	EII		30.868	9.70	0	---	2
Feb. 5	Fn.	WII		30.898	10.17	0	5.9	2½
1915								
Nov. 16	Hd.	WI		30.885	9.99	0	6.0	3
17	Fn.	WI		30.890	9.30	0	6.0	2
22	Hd.	EI		30.986	9.69	0	6.0	2
27	Wy.	EI		30.947	10.43	0	6.0	2½
Mean		1913.98	4 36	30.910	+49 48 9.78			
Corr				−0.081	−0.29			

Bradley 644

				h m s	° ′ ″			
1912								
Nov. 4	R.	WII	4 36	31.074	+43 11 39.54	0	---	3½
5	Fn.	WII		30.990	40.00	0	5.6	1½
12	R.	EII		31.084	40.05	D	---	3
14	R.	EII		31.041	-----	0	---	2
16	R.	EII		31.098	40.32	I	4.4	2
1914								
Feb. 12	Fn.	EI		31.055	39.99	0	6.0	1½
15	Fn.	WI		31.063	40.97	0	5.5	1½
17	Wy.	WI		31.063	39.52	0	6.0	3
25	Hd.	EI		31.047	39.65	0	---	2
Mean		1913.43	4 36	31.057	+43 11 40.00			
		1913.50						
Corr				−0.081	−0.28			

Groombridge 848

				h m s	° ′ ″			
				4 36 42.280	+75 46 42.99			
1911								
Nov. 22	Hd.	EII		+0.11	+0.86	0	6.0	2
Dec. 7	Hd.	WII		+0.06	+0.78	0	6.8	--
17	R.	EII		−0.02	+0.26	D	6.5	4
1912								
Jan. 15	Fn.	WII		+0.25	+0.08	0	6.2	2
1915								
Sept. 28	Hd.	EI		+0.01	+1.10	0	6.5	2
Oct. 21	Fn.	WI		+0.01	0.00	0	6.0	3
22	Hd.	WI		+0.11	+1.20	0	6.5	3
29	Hd.	EI		−0.07	+0.52	0	6.5	3
Mean		1913.88		+0.058	+0.60			
Corr				−0.081	−0.35			

Groombridge 848 s. p.

				h m s	° ′ ″			
				4 36 42.280	+75 46 42.99			
1913								
Apr. 19	R.	WII		−0.08	+0.25	0	6.5	2½
20	R.	WII		−0.10	+0.67	0	6.0	2
25	Fn.	EII		−0.07	−0.55	0	7.0	3
30	R.	EII		+0.07	−0.38	0	6.5	5
1914								
May 9	Fn.	WI		−0.06	+0.54	0	7.0	3½
15	Wy.	WI		+0.02	+0.55	0	7.5	4½
June 5	Fn.	EI		−0.08	+0.07	0	6.5	2½
6	Wy.	EI		−0.04	−0.84	0	---	--
Mean		1913.85		−0.042	+0.04			
Corr				−0.081	+0.52			

τ Tauri

				h m s	° ′ ″			
				4 36 50.505	+22 47 5.72			
1912								
Oct. 10	R.	WII		−0.010	+0.11	I	4.4	1
25	Fn.	EII		−0.012	+0.13	I	4.0	2
29	R.	EII		−0.029	+0.55	I	4.4	2
Nov. 1	Fn.	WII		+0.001	−0.30	I	3.6	1½
1913								
Dec. 30	Wy.	WI		+0.026	+0.77	I	3.9	2
1914								
Jan. 5	R.	EI		+0.004	−0.51	I	3.9	2½
6	Fn.	EI		+0.009	+0.34	I	4.4	2
21	Hd.	WI		+0.011	−0.15	I	3.9	2
22	Hd.	WI		+0.030	+0.17	0	---	3
Mean		1913.49		+0.003	+0.12			
Corr				−0.081	−0.24			

Weisse$_2$ IV 750

				h m s	° ′ ″			
1911								
Nov. 16	R.	EII		4 37 59.033	+32 41 48.64	0	7.0	1
18	R.	EII		59.033	48.38	0	6.5	2½
30	R.	WII		59.030	48.14	0	7.0	3½
Dec. 4	Hd.	WII		59.032	49.03	0	6.5	--
1915								
Sept. 22	Wy.	EI		59.029	48.65	0	6.5	2½
24	Hd.	EI		59.042	48.88	0	6.5	3½
Oct. 9	Hd.	WI		59.044	48.52	0	6.5	2½
11	Hd.	WI		58.978	48.38	0	6.5	2
Mean		1913.82		4 37 59.028	+32 41 48.58			
Corr				−0.081	−0.26			

Bradley 656

				h m s	° ′ ″			
1912								
Oct. 5	R.	EII		4 39 45.836	−8 40 15.41	0	6.0	5
7	R.	WII		45.842	15.22	0	6.0	2½
8	R.	WII		45.820	15.79	0	6.5	1
26	R.	EII		45.847	14.60	0	---	4½
1913								
Nov. 4	Fn.	EI		45.850	15.41	0	6.3	3
5	R.	EI		45.862	16.10	0	5.5	2½
17	Hd.	WI		45.812	16.64	0	6.0	3
20	Hd.	WI		45.811	15.67	0	6.0	3½
Mean		1913.32		4 39 45.835	−8 40 15.60			
Corr				−0.081	−0.15			

4 Camelopardalis

				h m s	° ′ ″			
				4 40 30.132	+56 35 53.27			
1911								
Nov. 19	Fn.	EII		−0.026	−0.02	0	5.2	2
21	Fn.	EII		+0.055	−0.46	0	5.3	2
Dec. 5	Hd.	WII		+0.044	+0.47	0	5.5	--
6	Hd.	WII		+0.026	+0.09	0	5.5	--
1915				s	″			
Nov. 5	Fn.	EI		+0.018	−0.70	0	5.5	2
7	Hd.	EI		+0.060	+0.21	I	4.9	2
9	Wy.	WI		+0.037	+0.80	I	4.9	2
10	Hd.	WI		−0.014	+0.74	0	---	2
Mean		1913.88		+0.025	+0.14			
Corr				−0.081	−0.31			

Lacaille 1569

				h m s	° ′ ″			
1912								
Jan. 27	R.	EII		4 40 38.043	−27 44 37.06	0	7.5	4
Feb. 1	Fn.	EII		38.036	37.27	0	7.6	--
2	Hd.	WII		38.051	37.18	0	7.2	3
4	Fn.	WII		38.115	37.48	0	7.4	4
1915								
Nov. 15	Wy.	WI		38.147	35.91	0	7.5	4
22	Hd.	EI		38.113	38.42	0	7.0	3
24	Wy.	EI		38.087	37.65	0	7.0	3
Dec. 6	Hd.	WI		38.141	38.51	0	7.0	3½
Mean		1913.99		4 40 38.092	−27 44 37.44			
Corr				−0.081	0.00			

Bradley 651

				h m s	° ′ ″			
1912								
Jan. 9	R.	EII		4 40 43.933	+55 26 33.75	0	6.0	4
10	Hd.	EII		43.929	33.97	0	6.0	2
16	R.	WII		43.943	33.93	0	7.0	1½
19	Fn.	WII		43.956	33.18	0	6.0	1½
1915								
Oct. 25	Wy.	WI		43.955	33.78	0	6.5	3
27	Fn.	WI		43.984	34.00	0	7.0	2½
28	Wy.	EI		43.893	33.49	0	6.5	3
29	Hd.	EI		44.003	33.23	0	6.5	3
Mean		1913.93		4 40 43.950	+55 26 33.67			
Corr				−0.081	−0.30			

μ Eridani

				h m s	° ′ ″			
				4 41 0.104	−3 25 8.38			
1912								
Nov. 20	Fn.	EII		−0.017	−0.33	I	3.8	2
22	Fn.	EII		+0.012	−0.88	I	4.0	3
26	Hd.	WII		+0.030	−0.74	I	3.9	3
29	Fn.	WII		+0.081	−0.28	I	3.7	3½
1914								
Jan. 8	R.	EI		+0.012	−0.45	0	---	3
28	Wy.	WI		+0.034	−0.18	0	4.5	4
29	R.	WI		−0.012	−0.67	0	---	4½
Feb. 2	Fn.	WI		+0.030	−1.14	0	---	3
4	Hd.	EI		+0.032	−0.42	I	4.4	3
Mean		1913.55		+0.022	−0.57			
Corr				−0.081	−0.17			

Piazzi IV 186

				h m s	° ′ ″			
1912								
Jan. 21	Hd.	WII		4 41 11.939	−21 26 53.62	0	5.5	4
22	Hd.	WII		11.956	52.33	0	5.8	4
23	Fn.	EII		11.946	53.27	0	---	4
24	R.	EII		11.937	52.50	0	6.5	3
1915								
Oct. 22	Hd.	WI		11.985	53.45	0	6.5	3
23	Wy.	WI		11.955	53.03	0	6.5	3½
Nov. 1	Hd.	EI		11.926	53.64	0	6.5	3½
3	Wy.	EI		11.971	53.24	0	6.0	3
Mean		1913.94		4 41 11.952	−21 26 53.14			
Corr				−0.081	−0.07			

Weisse$_2$ IV 866

				h m s	° ′ ″			
1912								
Nov. 4	R.	WII	4	42 41.137	+29 36 48.89	0	8.0	2½
9	Fn.	WII		41.084	49.06	0	6.8	2
16	R.	EII		41.109	49.08	0	7.0	2
18	Fn.	EII		41.132	49.48	0	6.8	1½
1914								
Feb. 9	Fn.	EI		41.118	48.75	0	---	2½
11	Hd.	EI		41.137	48.89	0	7.5	3
14	Hd.	WI		41.134	48.90	0	---	2
15	Fn.	WI		41.147	49.14	0	7.5	1½
Mean	1913.49		4	42 41.125	+29 36 49.02			
Corr				−0.081	−0.25			

Piazzi IV 197

				h m s	° ′ ″			
1911								
Dec. 7	Hd.	WII	4	42 50.151	−28 14 59.16	0	7.0	--
25	R.	EII		50.156	59.47	0	6.0	4
27	R.	EII		50.133	58.86	0	6.5	4
1912								
Jan. 15	Fn.	WII		50.162	58.76	0	6.6	3½
1915								
Sept. 28	Hd.	EI		50.177	58.51	0	---	4
29	Fn.	EI		50.169	59.48	0	7.0	3½
Oct. 9	Hd.	WI		50.209	59.99	0	6.5	3½
11	Hd.	WI		50.182	59.74	0	6.5	2
30	Fn.	EI		50.116	59.48	0	7.0	3½
Mean	1914.09		4	42 50.162	−28 14 59.27			
Corr				−0.081	0.00			

Groombridge 856

				h m s	° ′ ″			
1912								
Oct. 9	R.	WII	4	43 28.14	+81 2 48.53	0	---	1½
10	R.	WII		28.22	49.30	I	4.9	1
25	Fn.	EII		28.10	49.17	0	5.3	2
Nov. 12	R.	EII		28.13	48.43	0	6.0	3
1914								
Jan. 5	R.	EI		28.23	48.64	0	6.0	2
6	Fn.	EI		28.24	48.81	0	5.0	3
21	Hd.	WI		27.97	47.77	0	5.5	3
26	R.	WI		27.88	48.10	0	---	5
Mean	1913.42		4	43 28.114	+81 2 48.59			
Corr				−0.081	−0.37			

Groombridge 856 s. p.

				h m s	° ′ ″			
1913								
Apr. 20	R.	WII	4	43 28.20	+81 2 47.19	0	6.0	2
25	Fn.	EII		27.92	47.62	0	5.5	3
May 5	Hd.	EII		27.70	46.97	0	6.0	3
31	R.	WII		27.90	47.96	0	6.0	4
1914								
May 6	Fn.	WI		27.87	47.05	0	6.0	3
15	Wy.	WI		28.06	47.31	0	6.5	4
June 6	Wy.	EI		27.95	46.95	0	5.5	3
11	Fn.	EI		27.90	46.41	0	6.0	3½
Mean	1913.87		4	43 27.938	+81 2 47.18			
Corr				−0.081	+0.47			

π^3 Orionis

				h m s	° ′ ″			
			4	44 57.368	+6 48 17.69			
1912				s	″	″		
Oct. 5	R.	EII		+0.055	−0.38	I	2.9	3½
7	R.	WII		+0.063	−0.13	I	2.9	2½
8	R.	WII		+0.122	−0.03	I	---	1½
29	R.	EII		+0.029	+0.09	I	2.9	2
1914								
Feb. 12	Fn.	EI		+0.009	−0.04	0	---	1½
16	Fn.	WI		+0.003	−0.84	I	3.4	2½
17	Wy.	WI		+0.069	−2.01	I	3.4	3
25	Hd.	EI		+0.030	−0.14	0	---	2
1916								
July 17	*Wy.*	*EI*		*+0.039*	*−0.45*	*−0.38*	*0*	*3½*
1917								
Jan. 2	Wy.	WI		+0.050	+0.01		I	2.9 3½
19	Hd.	EI		+0.014	−0.36		I	2.9 2
Mar. 15	*Wy.*	*EI*		*−0.039*	*−0.46*	*−0.45*	*0*	*3½*
22	*Fn.*	*EI*		*−0.001*	*−0.13*	*−0.09*	*0*	*3½*
Apr. 3	*Hd.*	*WI*		*0.000*	*+0.03*	*+0.12*	*0*	*3½*
July 16	*Wy.*	*EII*		-----	*−0.68*	*−0.70*	*0*	*3½*
30	*Fn.*	*EII*		*+0.012*	*−0.31*	*−0.31*	*0*	*3*
Aug. 5	*Hd.*	*WII*		*+0.073*	*−0.11*	*−0.20*	*0*	*3*
17	*Wy.*	*WII*		*+0.054*	*−0.35*	*−0.35*	*0*	*3*
19	*Fn.*	*WII*		*+0.014*	*−0.11*	*−0.18*	*0*	*3*
1918								
Jan. 10	Fn.	EII		+0.010	−0.07		I	3.4 3
Feb. 11	Wy.	WII		+0.021	−0.85		I	3.4 3½
15	Fn.	WII		+0.016	−1.58		I	3.4 3
18	Fn.	EII		+0.035	−0.79		I	3.4 2
21	Fn.	EII		+0.027	−0.17		I	--- 2
Mar. 28	*Fn.*	*WII*		*−0.015*	*−1.11*	*−1.05*	*0*	*3*
July 1	*Hd.*	*WII*		*+0.072*	*−0.36*	*−0.31*	*0*	*3½*
10	*Wy.*	*EII*		*+0.070*	*−0.49*	*−0.42*	*0*	*3½*
14	*Wy.*	*EII*		*+0.083*	*−0.83*	*−0.78*	*0*	*3½*
Aug. 8	*Hd.*	*WII*		*+0.067*	*−0.73*	*−0.84*	*0*	*3½*
12	*Wy.*	*WII*		-----	*−0.90*	*−0.92*	*0*	*3½*
Mean	1915.48			+0.037	−0.49			
Corr				−0.081	−0.20			

9 Camelopardalis

				h m s	° ′ ″			
			4	45 5.820	+66 11 27.41			
1911								
Nov. 15	Fn.	EII		−0.09	−0.05	--	---	--
16	R.	EII		−0.11	+0.03	I	4.4	2
30	R.	WII		−0.10	+0.82	0	5.0	5
Dec. 1	R.	WII		−0.11	+0.61	0	---	2½
1915								
Jan. 4	Hd.	EI		−0.03	−0.04	I	4.4	2
5	Wy.	EI		−0.09	+0.43	0	5.5	3
10	Wy.	WI		−0.13	−0.40	I	4.9	2½
13	An.	WI		−0.05	+0.16	I	5.4	2
Mean	1913.46			−0.089	+0.20			
Corr				−0.081	−0.33			

9 Camelopardalis s. p.

				h m s	° ′ ″			
			4	45 5.819	+66 11 27.41			
1911								
June 29	Fn.	WII		−0.06	+0.36	0	4.6	--
30	Hd.	WII		−0.15	−0.93	0	5.5	--
July 3	Fn.	EII		−0.17	−0.97	0	5.8	--
5	R.	EII		−0.24	−0.60	0	---	4
1915								
July 9	Fn.	WI		−0.14	−0.99	0	5.5	3½
11	Fn.	WI		−0.14	+0.18	0	---	4½
21	An.	EI		----	−0.07	0	---	3½
22	Fn.	EI		−0.16	+0.57	0	---	4
Mean	1913.23			−0.151	−0.31			
	1913.52							
Corr				−0.081	+0.70			

B. D. +61° 739

				h m s	° ′ ″			
1912								
Dec. 14	R.	EII	4	45 32.62	+61 19 -----	0	---	1½
15	Fn.	EII		32.47	52.87	0	6.7	3
19	Hd.	EII		32.56	52.53	0	6.5	2
27	Fn.	WII		32.53	52.74	0	6.8	3½
28	Hd.	WII		32.52	52.64	0	6.5	3
1913								
Nov. 4	Fn.	EI		32.54	53.03	0	6.5	2
5	R.	EI		32.57	52.62	0	5.5	2½
17	Hd.	WI		32.64	52.90	0	6.5	3
20	Hd.	WI		32.58	52.88	0	6.5	2
Mean	1913.37		4	45 32.559	+61 19 52.78			
	1913.42							
Corr				−0.081	−0.32			

Lalande 9107

				h m s	° ′ ″			
1911								
Nov. 18	R.	EII	4	45 34.585	−13 55 15.65	0	6.5	2
22	Hd.	EII		34.553	16.09	0	6.5	2
Dec. 5	Hd.	WII		34.620	15.70	0	6.5	3½
6	Hd.	WII		34.597	16.61	0	6.5	--
1915								
Sept. 22	Wy.	EI		34.553	16.80	0	6.5	3
24	Hd.	EI		34.585	16.78	0	6.5	3½
Oct. 12	Fn.	WI		34.529	17.18	0	6.5	3
21	Fn.	WI		34.564	16.74	0	6.5	3½
Mean	1913.83		4	45 34.573	−13 55 16.44			
Corr				−0.081	−0.12			

i Tauri

				h m s	° ′ ″			
			4	46 6.482	+18 41 14.36			
1912								
Feb. 4	Fn.	WII		+0.058	−0.94	0	5.1	3
5	Fn.	WII		+0.023	+0.40	0	5.1	2
6	Hd.	EII		−0.021	+0.14	I	4.4	3
8	Fn.	EII		−0.006	−0.30	0	---	2
1915								
Oct. 22	Hd.	WI		+0.004	+0.44	0	6.0	3
23	Wy.	WI		+0.026	+0.61	0	5.0	2½
Nov. 7	Hd.	EI		+0.049	−0.29	I	4.9	2½
9	Wy.	WI		+0.049	+0.10	0	5.5	2½
22	Hd.	EI		+0.011	−0.03	I	4.9	2
Mean	1914.18			+0.021	+0.01			
Corr				−0.081	−0.23			

Bradley 673

				h m s	° ′ ″			
1912								
Jan. 10	Hd.	EII	4	46 8.259	−16 22 23.22	0	5.0	3½
19	Fn.	WII		8.241	23.35	0	5.1	2½
20	R.	WII		8.168	22.97	0	5.5	3
23	Fn.	EII		8.157	24.16	0	---	3½
1915								
Oct. 25	Wy.	WI		8.247	23.04	0	6.0	3
27	Fn.	WI		8.223	23.57	0	5.5	3½
28	Wy.	EI		8.218	23.26	0	6.0	3½
29	Hd.	EI		8.207	22.29	0	6.0	3½
Nov. 3	Wy.	EI		8.209	23.16	0	5.5	2½
Mean	1914.15		4	46 8.214	−16 22 23.22			
Corr				−0.081	−0.11			

π^4 Orionis

				h m s	° ′ ″			
1912								
Nov. 22	Fn.	EII	4	46 24.736	+5 27 6.00	I	3.5	2½
29	Fn.	WII		24.753	7.43	I	3.4	3
Dec. 9	Fn.	WII		24.733	7.03	I	3.5	2
12	R.	EII		24.670	7.54	I	3.4	2½
1914								
Jan. 8	R.	EI		24.715	5.85	0	---	3½
22	Hd.	WI		24.713	6.21	0	---	3
25	Fn.	WI		24.702	6.72	0	---	--
27	Fn.	WI		24.757	6.32	0	---	3½
Feb. 3	Wy.	EI		24.729	6.91	I	3.9	2
Mean	1913.56		4	46 24.723	+5 27 6.67			
Corr				−0.081	−0.19			

π^5 Orionis

				h m s	° ′ ″			
			4	49 33.762	+2 17 38.45			
1911								
Dec. 17	R.	EII		+0.003	+0.19	0	---	3
19	Hd.	EII		+0.004	−0.28	I	3.1	--
1912								
Jan. 15	Fn.	WII		−0.015	+0.28	0	---	3
16	R.	WII		−0.011	+0.07	I	---	3½
1915				s	″			
Sept. 28	Hd.	EI		+0.012	−0.28	I	3.9	3
29	Fn.	EI		−0.072	+0.13	I	3.9	3
Oct. 9	Hd.	WI		+0.035	−0.41	I	3.9	2
11	Hd.	WI		−0.016	−0.58	I	3.4	2
Mean	1913.88			−0.008	−0.11			
Corr				−0.081	−0.18			

Piazzi IV 236

				h m s	° ′ ″			
1912								
Nov. 5	Fn.	WII	4	49 55.757	+7 38 2.58	0	5.8	1½
9	Fn.	WII		55.734	2.19	0	5.4	2
16	R.	EII		55.744	2.77	I	4.4	2
18	Fn.	EII		55.786	2.71	0	5.3	1½
26	Hd.	WII		55.766	2.47	0	6.0	3
1913								
Dec. 30	Wy.	WI		55.748	2.56	0	5.0	2½
1914								
Jan. 5	R.	EI		55.776	1.25	0	6.0	2
6	Fn.	EI		55.772	2.72	0	5.5	3
21	Hd.	WI		55.735	2.46	0	6.0	2
26	R.	WI		55.756	2.52	0	6.0	3
Mean	1913.45		4	49 55.757	+7 38 2.42			
Corr				−0.081	−0.20			

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				h m s	° ′ ″			
			4	51 7.834	+33 1 27.56			
1911				s	″			″
July 28	*R.*	*WII*		*+0.089*	*−0.02*	*−0.05*	*0*	---
Aug. 9	*R.*	*EII*		*+0.036*	*+0.42*	*+0.38*	*0*	---
10	*Fn.*	*EII*		-----	*−0.36*	*−0.38*	*0*	---
15	*Fn.*	*EII*		*−0.035*	*−0.26*	*−0.26*	*0*	---
20	*Fn.*	*EII*		*−0.022*	*−0.04*	*−0.08*	*0*	---
Dec. 25	R.	EII		+0.028	-----		II	2.6
27	R.	EII		−0.008	−0.12		II	2.6
1912								
Jan. 9	R.	EII		−0.010	+0.26		0	---
10	Hd.	EII		−0.004	−0.43		I	2.9
20	R.	WII		+0.031	-----		II	2.6
21	Hd.	WII		+0.046	-----		I	2.4
22	Hd.	WII		+0.003	−0.38		I	2.7
23	Fn.	EII		+0.013	+0.21		I	---
24	R.	EII		−0.039	+0.56		II	2.6
27	R.	EII		+0.043	+0.23		II	2.6
Feb. 1	Fn.	EII		+0.079	−0.11		I	2.4
2	Hd.	WII		+0.019	−0.11		I	3.4
4	Fn.	WII		+0.017	+0.72		I	2.4
5	Fn.	WII		+0.021	+0.79		I	2.2
6	Hd.	EII		−0.022	+0.27		I	2.9
8	Fn.	EII		+0.014	−0.19		I	2.0
9	Hd.	EII		−0.029	−0.37		I	2.4
10	R.	EII		+0.034	-----		I	---
16	Hd.	EII		−0.009	−0.37		I	---
17	R.	EII		+0.005	+0.05		II	2.1
22	R.	WII		−0.027	-----		I	2.4
23	Hd.	WII		−0.011	-----		I	2.4
Aug. 2	*R.*	*EII*		*+0.002*	*−0.35*	*−0.35*	*0*	---
4	*Fn.*	*EII*		*−0.004*	*+0.20*	*+0.20*	*0*	---
Oct. 5	R.	EII		+0.026	+0.03		II	2.6
15	R.	WII		−0.003	+0.31		II	2.6
25	Fn.	EII		+0.006	−0.55		I	2.2
Nov. 4	R.	WII		+0.003	−0.15		I	3.4
12	R.	EII		+0.018	-----		II	---
14	R.	EII		+0.010	−0.08		0	---
20	Fn.	EII		+0.043	-----		I	2.4
Dec. 6	Fn.	WII		+0.044	-----		0	---
9	Fn.	WII		+0.003	-----		I	2.4
14	R.	EII		+0.006	-----		I	---
20	Fn.	EII		+0.023	-----		I	2.2
27	Fn.	WII		+0.004	-----		I	2.5
28	Hd.	WII		−0.001	-----		I	2.7
30	Fn.	WII		−0.039	-----		I	2.5

				s	"	"			
1913									
Jan.	4	Hd.	WII	+0.026		----	I	2.7	2½
	8	Fn.	WII	+0.023		----	0	---	--
	14	R.	WII	−0.006		----	II	2.6	1
	15	Fn.	WII	+0.029		−0.34	I	3.4	3
	18	Hd.	EII	−0.027		----	I	2.9	3
	19	Hd.	EII	+0.025		+0.28	I	3.4	2
	21	Hd.	EII	+0.016		+0.63	I	2.7	2
	22	Fn.	EII	+0.002		−0.30	I	2.5	1½
	25	Hd.	EII	+0.013		−0.03	I	3.1	2
	26	Hd.	EII	−0.007		----	I	2.7	2
	30	Hd.	WII	+0.050		−0.01	I	2.9	2
Feb.	1	Hd.	WII	+0.035		+0.47	II	2.6	2
	5	Fn.	WII	+0.041		+0.34	I	---	1½
Nov.	20	Hd.	WI	+0.027		+0.60	I	2.9	2
	21	Fn.	WI	+0.037		+0.71	I	2.4	1½
	22	R.	WI	+0.031		+0.10	II	2.1	1½
Dec.	3	R.	EI	−0.029		−0.82	II	1.1	2
	5	R.	EI	−0.002		−0.32	I	2.9	3½
	11	Fn.	EI	+0.002		----	I	2.9	3½
	12	Fn.	EI	+0.020		−0.62	I	2.9	2
	27	Wy.	WI	+0.033		+0.77	I	2.9	2
1914									
Jan.	8	R.	EI	−0.040		----	I	3.4	3
	22	Hd.	WI	+0.032		----	0	---	2
	28	Wy.	WI	+0.022		----	I	---	3
	29	R.	WI	+0.018		----	I	2.9	3
Feb.	3	Wy.	EI	+0.037		----	I	2.9	3
	9	Fn.	EI	+0.019		----	I	2.9	2½
	11	Hd.	EI	+0.018		----	I	2.9	3
	12	Fn.	EI	+0.019		----	I	3.4	1½
	14	Hd.	WI	+0.010		----	I	---	2
	15	Fn.	WI	+0.029		----	I	2.9	1½
	16	Fn.	WI	+0.029		----	I	2.9	2
	25	Hd.	EI	+0.032		----	I	---	2
June	*19*	*Wy.*	*WI*	*−0.064*	*−0.12*	*−0.08*	*0*	---	*3½*
	29	*Hd.*	*WI*	*+0.040*	*−0.08*	*−0.06*	*0*	---	*3*
July	*2*	*Hd.*	*WI*	*−0.067*	*−0.47*	*−0.45*	*0*	---	*3*
	20	*Hd.*	*EI*	*+0.034*	*−0.15*	*−0.16*	*0*	---	*3*
	21	*Fn.*	*EI*	*+0.060*	*0.00*	*0.00*	*0*	---	*3½*
	26	*Fn.*	*EI*	*+0.087*	*+0.44*	*+0.43*	*0*	---	*3½*
	28	*Fn.*	*EI*	*−0.031*	*+0.23*	*+0.24*	*0*	---	*3*
Aug.	*2*	*Fn.*	*EI*	*−0.017*	----	----	*0*	---	*3½*
	6	*Hd.*	*EI*	*+0.058*	*−0.22*	*−0.24*	*0*	---	*3*
	13	*Wy.*	*WI*	*+0.022*	*+0.39*	*+0.37*	*0*	---	*3½*
	16	*Fn.*	*WI*	*+0.018*	*−0.42*	*−0.44*	*0*	---	*2½*
	21	*An.*	*WI*	*−0.044*	*+0.36*	*+0.36*	*0*	---	*3*
Dec.	12	An.	WI	−0.005		----	0	---	2
	17	Fn.	WI	−0.014		----	I	2.9	2
	21	Fn.	WI	+0.043		----	I	2.9	2½
	22	Wy.	WI	−0.022		----	I	2.9	3
1915									
Jan.	4	Hd.	EI	+0.074		----	I	2.9	2
	5	Wy.	EI	+0.008		----	I	3.4	2
	7	Hd.	EI	+0.059		----	II	3.1	2½
	8	Wy.	EI	+0.075		−0.28	II	2.6	2½
	10	Wy.	WI	+0.028		−0.18	I	3.4	2
	13	An.	WI	+0.018		----	I	---	2
	14	Hd.	WI	+0.001		+0.27	I	2.9	2
	16	An.	WI	−0.019		----	I	---	2½
	25	Fn.	EI	+0.018		----	I	2.9	2½
	28	Fn.	EI	+0.066		----	I	3.4	2½
	29	Wy.	EI	+0.055		−0.07	II	3.1	3
May	*27*	*Wy.*	*WI*	*+0.056*	*−0.08*	*−0.02*	*0*	---	*3½*
June	*18*	*Wy.*	*WI*	*+0.034*	*+0.52*	*+0.53*	*0*	---	*3½*
	27	*Wy.*	*EI*	*+0.123*	*−0.13*	*−0.11*	*0*	---	*4*
	28	*Hd.*	*EI*	*−0.034*	*+0.38*	*+0.39*	*0*	---	*3*
July	*5*	*Fn.*	*WI*	*−0.060*	*−0.48*	*−0.46*	*0*	---	*3½*
	8	*Fn.*	*WI*	*−0.027*	*−0.24*	*−0.23*	*0*	---	*3½*
	15	*Fn.*	*WI*	*+0.034*	----	----	*0*	---	*3½*
	16	*An.*	*WI*	*−0.019*	*+0.41*	*+0.41*	*0*	---	*3*
	20	*An.*	*EI*	*−0.064*	*+0.02*	*+0.02*	*0*	---	*3½*
	23	*An.*	*EI*	*+0.016*	*−0.45*	*−0.44*	*0*	---	*3½*
	29	*Hd.*	*EI*	-----	*+0.19*	*+0.18*	*0*	---	*2½*
	30	*An.*	*EI*	*−0.051*	*−0.47*	*−0.47*	*0*	---	*3*
Aug.	*3*	*Hd.*	*EI*	-----	*−0.24*	*−0.25*	*0*	---	*3*
	5	*An.*	*EI*	-----	*−0.12*	*−0.12*	*0*	---	*3*
Oct.	25	Wy.	WI	−0.001		+0.32	I	3.4	3
	27	Fn.	WI	−0.014		−0.43	I	2.9	2½

				s	"	"			
1915									
Oct.	30	Fn.	EI	−0.004		+0.34	I	2.9	2
Nov.	3	Wy.	EI	−0.024		−0.55	II	2.6	2
	7	Hd.	EI	+0.020		−0.41	II	2.6	2
	9	Wy.	WI	−0.006		−0.62	II	2.6	2
	10	Hd.	WI	−0.026		+0.19	I	3.4	2
	11	Fn.	WI	−0.037		+0.31	I	---	3
	16	Hd.	WI	−0.031		+0.15	I	2.9	3
	17	Fn.	WI	−0.011		+0.77	I	2.9	2
	22	Hd.	EI	+0.020		+0.07	II	3.1	2
	24	Wy.	EI	+0.042		−0.78	I	2.9	2½
	29	Wy.	EI	+0.002		----	II	2.6	2½
Dec.	2	Hd.	EI	+0.035		----	I	2.9	3
	6	Hd.	WI	−0.025		−0.05	II	2.6	2
	22	Wy.	WI	+0.008		+0.07	II	1.6	3
	23	Wy.	WI	+0.017		+0.38	I	3.4	3½
1916									
Jan.	3	Hd.	EI	+0.037		−0.21	I	2.9	2½
	19	Fn.	EI	+0.032		−0.16	I	3.9	2
	24	Hd.	EI	+0.030		+0.05	I	2.9	2
	25	Fn.	EI	+0.016		−0.46	I	3.4	3½
	26	Wy.	EI	+0.005		+0.24	I	3.4	2½
	27	Wy.	EI	−0.001		----	0	---	3
Feb.	3	Hd.	EI	+0.037		−0.36	I	3.4	3
June	*22*	*Hd.*	*WI*	*+0.018*	----	----	*0*	---	*3*
July	*5*	*Wy.*	*EI*	*−0.018*	*−0.21*	*−0.20*	*0*	---	*3½*
	6	*Fn.*	*EI*	*+0.036*	*−0.33*	*−0.32*	*0*	---	*3½*
	12	*Hd.*	*EI*	*−0.033*	----	----	*0*	---	*3*
1917									
Jan.	2	Wy.	WI	+0.030		+0.69	I	3.4	3
	19	Hd.	EI	+0.004		+0.72	II	3.1	2
	28	Hd.	EI	−0.019		----	I	---	2
Mar.	*6*	*Fn.*	*WI*	*−0.013*	----	----	*I*	---	*2½*
	9	*Fn.*	*WI*	*+0.021*	----	----	*0*	---	*2*
	22	*Fn.*	*EI*	*−0.036*	*−0.55*	*−0.54*	*0*	---	*3*
Apr.	*3*	*Hd.*	*WI*	*−0.033*	*−0.20*	*−0.19*	*0*	---	*3*
	10	*Fn.*	*WI*	*+0.015*	*+0.13*	*+0.14*	*0*	---	*3½*
	17	*Wy.*	*WI*	*+0.098*	*+0.15*	*+0.15*	*0*	---	*4*
	23	*Wy.*	*EI*	*−0.086*	----	----	*0*	---	*3½*
July	*1*	*Hd.*	*EII*	-----	*−0.53*	*−0.52*	*0*	---	*3½*
	29	*Wy.*	*EII*	*−0.018*	*−0.37*	*−0.38*	*0*	---	*4*
	30	*Fn.*	*EII*	*−0.007*	*−0.09*	*−0.09*	*0*	---	*3*
Aug.	*5*	*Hd.*	*WII*	*+0.006*	----	----	*0*	---	*2½*
	17	*Wy.*	*WII*	*+0.071*	*+0.48*	*+0.48*	*I*	---	*2*
	19	*Fn.*	*WII*	*−0.014*	----	----	*0*	---	*3*
Sept.	*10*	*Fn.*	*EII*	*−0.024*	----	----	*I*	---	*3*
1918									
Jan.	10	Fn.	EII	+0.015		----	I	2.9	3
	17	Fn.	EII	+0.017		----	0	---	2½
Feb.	15	Fn.	WII	+0.035		----	I	2.9	2½
	18	Fn.	EII	+0.030		----	I	3.4	2
	21	Fn.	EII	+0.042		----	I	2.9	2½
Mar.	*7*	*Fn.*	*EII*	*+0.040*	----	----	*0*	---	*1½*
	25	*Fn.*	*WII*	*−0.051*	----	----	*0*	---	*3*
	28	*Fn.*	*WII*	*−0.063*	*−1.12*	*−1.11*	*0*	---	*3*
June	*23*	*Wy.*	*WII*	*−0.035*	*−0.39*	*−0.37*	*0*	---	*3½*
July	*1*	*Hd.*	*WII*	*+0.041*	*−0.11*	*−0.10*	*0*	---	*3½*
	8	*Hd.*	*EII*	*−0.027*	*−0.24*	*−0.23*	*0*	---	*3½*
	10	*Wy.*	*EII*	*−0.015*	*−0.05*	*−0.04*	*0*	---	*3½*
	14	*Wy.*	*EII*	*−0.056*	*+0.20*	*+0.21*	*0*	---	*3½*
	15	*Hd.*	*EII*	*+0.053*	*−0.77*	*−0.77*	*0*	---	*3½*
Aug.	*8*	*Hd.*	*WII*	*−0.011*	*−0.14*	*−0.16*	*0*	---	*3½*
	11	*Fn.*	*WII*	*+0.107*	----	----	*0*	---	*3*
	12	*Wy.*	*WII*	*+0.035*	*+0.04*	*+0.03*	*0*	---	*3½*
	14	*Fn.*	*WII*	*−0.026*	----	----	*0*	---	*3*
Mean			1914.19			+0.014		+0.03	
			1914.10						
Corr						−0.081		−0.26	

Paris 5658

				h	m	s	°	′	″			
1911												
Nov.	15	Fn.	EII	4	51	16.090	−16	33	45.73	0	6.2	4
	16	R.	EII			16.196			45.68	0	5.5	2½
Dec.	1	R.	WII			16.164			46.31	0	---	1½
	5	Hd.	WII			16.159			46.00	0	6.0	4
1915												
Oct.	22	Hd.	WI			16.175			45.92	0	---	3½

			h m s	° ′ ″			
1915							
Oct. 23	Wy.	WI	16.115	45.85	0	6.5	3½
28	Wy.	EI	16.129	45.81	0	6.5	3
29	Hd.	EI	16.095	45.49	0	6.0	3½
Mean	1913.86		4 51 16.140	−16 33 45.85			
Corr			−0.081	−0.10			

Bradley 689

			h m s	° ′ ″			
1912							
Oct. 9	R.	WII	4 51 58.208	−5 18 48.50	0	6.0	1½
10	R.	WII	58.212	48.32	0	6.0	1
29	R.	EII	58.270	47.12	0	6.0	2½
Nov. 12	R.	EII	58.192	48.06	0	---	--
1913							
Nov. 4	Fn.	EI	58.258	48.07	0	5.4	3
5	R.	EI	58.243	48.17	I	4.9	2½
10	Hd.	WI	58.228	48.72	0	5.5	3½
17	Hd.	WI	58.124	48.07	0	5.5	3½
Mean	1913.34		4 51 58.217	−5 18 48.13			
Corr			−0.081	−0.16			

Bradley 684

			h m s	° ′ ″			
1911							
Nov. 18	R.	EII	4 52 20.928	+23 48 31.05	0	6.0	2
19	Fn.	EII	20.907	31.40	0	6.0	2½
Dec. 6	Hd.	WII	20.907	31.65	0	6.0	1
7	Hd.	WII	20.923	31.91	0	5.8	1
1915							
Sept. 22	Wy.	EI	20.941	31.36	I	5.4	2½
24	Hd.	EI	20.904	31.66	0	6.0	3
Oct. 12	Fn.	WI	20.937	31.58	0	---	2½
21	Fn.	WI	20.957	31.68	0	6.5	3
Mean	1913.83		4 52 20.926	+23 48 31.54			
Corr			−0.081	−0.24			

Bradley 683[1]

			h m s	° ′ ″			
1912							
Nov. 20	Fn.	EII	4 53 8.759	+37 45 18.04	0	---	2
22	Fn.	EII	8.720	17.98	0	5.5	2
29	Fn.	WII	8.740	17.38	0	5.5	3
Dec. 3	R.	WII	8.730	17.30	0	6.0	1½
1914							
Jan. 8	R.	EI	8.718	18.65	0	5.5	3½
25	Fn.	WI	8.704	18.09	0	6.5	2
27	Fn.	WI	8.699	18.12	0	6.0	3
29	R.	WI	8.744	17.72	0	---	3½
Feb. 2	Fn.	WI	8.701	18.12	0	5.5	--
3	Wy.	EI	8.754	17.54	0	5.5	2½
Mean	1913.60		4 53 8.727	+37 45 17.89			
Corr			−0.081	−0.27			

Weisse$_1$ IV 1106

			h m s	° ′ ″			
1912							
Dec. 9	Fn.	WII	4 53 52.951	+14 24 22.38	0	6.3	2
12	R.	EII	52.925	21.93	0	6.0	2
14	R.	EII	52.961	22.11	0	---	1½
27	Fn.	WII	52.972	22.79	0	6.7	3½
1914							
Feb. 9	Fn.	EI	52.936	21.94	0	6.0	2½
11	Hd.	EI	52.947	21.60	0	6.5	3
14	Hd.	WI	52.939	21.65	0	---	2
16	Fn.	WI	52.937	21.03	0	6.0	2½
Mean	1913.54		4 53 52.946	+14 24 21.93			
Corr			−0.081	−0.22			

Bradley 695

			h m s	° ′ ″			
1911							
Nov. 21	Fn.	EII	4 53 52.988	+1 34 35.16	0	4.9	2
22	Hd.	EII	52.967	35.27	I	4.4	2
1912							
Jan. 20	R.	WII	52.989	35.63	0	5.5	3
21	Hd.	WII	53.024	34.97	I	3.9	--
1915							
Sept. 28	Hd.	EI	53.040	35.74	I	4.4	3
29	Fn.	EI	53.016	35.55	0	5.0	3
Oct. 9	Hd.	WI	53.019	35.16	I	4.4	2
11	Hd.	WI	53.040	34.34	I	4.4	2
Mean	1913.86		4 53 53.010	+1 34 35.23			
Corr			−0.081	−0.18			

β Camelopardalis

			h m s	° ′ ″			
			4 55 24.398	+60 18 42.27			
			s	″	″		
1912							
Dec. 15	Fn.	EII	−0.06	+0.53	I	3.6	2½
16	Fn.	EII	−0.01	+0.26	0	---	1½
30	Fn.	WII	0.00	+0.23	I	3.9	2½
1913							
Jan. 4	Hd.	WII	+0.05	−0.12	I	3.9	3
1914							
Nov. 23	Fn.	EI	+0.04	+0.55	I	3.9	2
24	Hd.	EI	+0.07	+0.09	I	---	3
Dec. 12	An.	WI	−0.01	−0.58	0	---	--
16	An.	WI	+0.05	−0.17	I	---	2½
1917							
Jan. 19	Hd.	EI	+0.12	+0.45	I	4.4	2
Mar. 22	*Fn.*	*EI*	*+0.02*	*+0.24*	*+0.20*	*0*	*---*	*3*
1918							
Mar. 26	*Wy.*	*WII*	*+0.11*	*−0.06*	*−0.10*	*0*	*---*	*3*
Mean	1914.30		+0.028	+0.14			
Corr			−0.081	−0.32			

β Camelopardalis s. p.

			h m s	° ′ ″			
			4 55 ------	+60 18 42.27			
1911							
June 9	Hd.	WII	-----	−1.8	0	---	--
15	Fn.	EII	-----	−3.3	0	---	--
20	Hd.	EII	-----	−0.8	0	---	--
21	T.	EII	-----	−1.6	0	---	--
27	Hd.	WII	-----	−1.0	0	---	--
July 24	Fn.	EII	-----	−4.3	0	---	--
25	Hd.	EII	-----	+0.7	0	---	5
27	Fn.	WII	-----	+1.2	0	---	4½
Aug. 9	Fn.	EII	-----	−1.0	0	---	--
1914							
Mar. 18	Wy.	EI	-----	−4.2	0	---	5
June 30	Hd.	WI	-----	−4.2	0	---	4
July 15	Hd.	WI	-----	+0.7	0	---	4
17	Hd.	WI	-----	−0.5	0	---	4½
18	Hd.	EI	-----	−1.6	0	---	4
19	Hd.	EI	-----	−1.1	0	---	4
20	Fn.	EI	-----	−1.1	0	---	4½
21	Hd.	EI	-----	−3.3	0	---	5
27	Fn.	EI	-----	−1.2	0	---	--
28	Hd.	EI	-----	−0.2	0	---	4
31	Fn.	EI	-----	−0.5	0	---	4
1915							
May 9	Wy.	EI	-----	−1.1	0	---	4½
19	Fn.	EI	-----	−5.2	0	---	3½
June 4	An.	WI	-----	−1.3	0	---	4
9	An.	EI	-----	−0.3	0	---	4
10	Fn.	EI	-----	0.0	0	---	4
12	An.	WI	-----	−0.4	0	---	4
22	Wy.	EI	-----	−2.3	0	---	4
July 11	Fn.	WI	-----	+1.0	0	---	5
14	An.	WI	-----	−1.7	0	---	4
17	An.	WI	-----	+0.4	0	---	4
22	Fn.	EI	-----	−0.4	0	---	4½
23	Hd.	EI	-----	−0.5	0	---	4
24	An.	EI	-----	−1.8	0	---	4
1916							
July 6	Wy.	EI	-----	−1.2	0	---	4½

[1] Double; s. component observed.

			s	″			
1916							
Aug. 22	Fn.	EI	-----	−1.2	0	---	4½
1917							
June 25	Wy.	WII	-----	−0.8	0	---	4½
Aug. 10	Wy.	WII	-----	−0.8	0	---	4
1918							
July 2	Hd.	WII	-----	−1.5	0	---	4
15	Wy.	EII	-----	+1.3	0	---	5
Mean------ 1914.61			-----	−1.20			
Corr----------			-----	+0.98			

ε Aurigæ

	h	m	s	°	′	″
	4	55	30.520	+43	41	27.33

1911								
Dec. 19	Hd.	EII	−0.016	+0.18	I	2.7	--	
25	R.	EII	+0.034	+0.61	II	2.6	1½	
1912								
Jan. 15	Fn.	WII	−0.026	+0.94	I	3.2	2	
16	R.	WII	+0.048	+0.75	II	2.6	1½	
1915								
Jan. 8	Wy.	EI	+0.014	----	II	2.6	2½	
25	Fn.	EI	+0.008	----	I	2.4	2½	
28	Fn.	EI	+0.007	----	I	3.4	2½	
Oct. 25	Wy.	WI	−0.031	+0.85	I	3.4	2½	
27	Fn.	WI	−0.039	+0.33	I	3.9	2½	
28	Wy.	EI	−0.011	+0.20	I	3.9	2½	
29	Hd.	EI	−0.034	+0.39	I	3.4	3	
Nov. 5	Fn.	EI	+0.033	----	I	3.9	2	
Dec. 23	Wy.	WI	−0.033	----	I	3.4	3½	
1916								
Jan. 27	Wy.	EI	−0.004	----	0	---	3	
Mean------ 1914.60			−0.004	+0.53				
1913.92								
Corr----------			−0.081	−0.28				

ζ Aurigæ

	h	m	s	°	′	″
	4	56	11.083	+40	56	43.08

1911								
Dec. 27	R.	EII	+0.033	−0.05	I	3.4	1½	
1912								
Jan. 9	R.	EII	+0.048	+0.18	0	---	4	
22	Hd.	WII	+0.060	−0.38	I	3.4	3	
Feb. 2	Hd.	WII	+0.020	−0.27	I	3.4	2	
1914								
Dec. 21	Fn.	WI	+0.021	----	I	3.9	2½	
1915								
Oct. 22	Hd.	WI	+0.031	−0.02	I	---	3	
23	Wy.	WI	−0.017	−0.12	I	3.4	2	
Nov. 1	Hd.	EI	−0.050	−0.56	0	---	3½	
3	Wy.	EI	+0.020	−0.36	I	3.9	2	
Dec. 2	Hd.	EI	+0.006	----	I	3.4	2	
23	Wy.	WI	+0.029	----	I	3.9	3½	
1916								
Jan. 3	Hd.	EI	+0.072	----	I	3.4	2	
24	Hd.	EI	+0.033	----	I	3.4	2	
27	Wy.	EI	+0.057	----	0	---	3	
Feb. 3	Hd.	EI	+0.074	----	I	3.9	2	
Mean------ 1914.84			+0.029	−0.20				
1913.93								
Corr----------			−0.081	−0.27				

Groombridge 915

				h	m	s	°	′	″			
1912												
Nov. 5	Fn.	WII		4	56	59.662	+41	18	45.08	0	6.4	1½
9	Fn.	WII				59.680			44.70	0	5.8	1½
16	R.	EII				59.675			44.91	0	---	2
18	Fn.	EII				59.732			44.63	0	6.3	1½
1913												
Nov. 21	Fn.	WI				59.715			44.35	0	6.5	1½
22	R.	WI				59.724			44.78	0	5.5	1½
Dec. 3	R.	EI				59.694			43.92	0	5.5	2
5	R.	EI				59.712			44.17	0	6.0	3½
Mean------ 1913.39				4	56	59.699	+41	18	44.57			
Corr----------						−0.081			−0.27			

ι Tauri

	h	m	s	°	′	″
	4	57	42.937	+21	27	43.05

1911								
Nov. 15	Fn.	EII	−0.030	−0.04	0	5.2	2½	
16	R.	EII	+0.013	−0.24	I	3.9	1	
30	R.	WII	−0.014	−0.09	0	---	3	
Dec. 1	R.	WII	−0.014	+0.27	0	5.5	2	
1915								
Nov. 5	Fn.	EI	−0.028	+0.62	0	5.0	2	
7	Hd.	EI	−0.008	+0.88	I	4.4	2	
9	Wy.	WI	−0.014	+1.04	I	4.4	2	
10	Hd.	WI	−0.041	+0.39	I	4.4	2	
Mean------ 1913.87			−0.017	+0.35				
Corr----------			−0.081	−0.23				

Bradley 691

			h	m	s	°	′	″			
1911											
Nov. 18	R.	EII	4	58	18.826	+58	50	51.57	0	---	2
19	Fn.	EII			18.833			50.02	0	---	2
Dec. 4	Hd.	WII			18.814			51.40	0	---	4
5	Hd.	WII			18.793			51.66	0	5.5	4
1915											
Sept. 22	Wy.	EI			18.811			51.14	I	4.9	2½
24	Hd.	EI			18.810			51.88	0	---	3½
Oct. 9	Hd.	WI			18.810			51.80	I	4.9	2
11	Hd.	WI			18.770			52.02	I	4.9	2
Mean------ 1913.83			4	58	18.808	+58	50	51.44			
Corr----------					−0.081			−0.32			

Piazzi IV 289

			h	m	s	°	′	″			
1912											
Oct. 9	R.	WII	4	58	30.204	−26	24	9.35	0	---	2½
10	R.	WII			30.158			9.04	0	6.0	2
25	Fn.	EII			30.208			7.47	0	5.3	3½
Nov. 12	R.	EII			30.247			8.76	0	---	3
1914											
Dec. 22	Wy.	WI			30.384			9.06	0	6.0	4
23	Hd.	WI			30.330			8.27	0	---	3
1915											
Jan. 5	Wy.	EI			30.228			9.03	0	6.0	3
8	Wy.	EI			30.242			9.12	0	---	3½
10	Wy.	WI			30.296			9.13	0	6.0	3
Mean------ 1914.03			4	58	30.255	−26	24	8.80			
Corr----------					−0.081			−0.02			

11 Orionis

	h	m	s	°	′	″
	4	59	25.523	+15	16	45.85

1911									
Nov. 21	Fn.	EII	−0.011	+0.06	0	4.9	2		
22	Hd.	EII	+0.009	−0.32	I	4.4	--		
Dec. 7	Hd.	WII	+0.011	+0.23	I	4.4	--		
1912									
Jan. 19	Fn.	WII	+0.025	−0.21	I	4.4	2		
1915									
Feb. 10	Hd.	EI	-----	−0.17	I	3.9	2½		
17	Fn.–Wy.	EI	-----	−0.46	0	5.0	2½		
18	Hd.–An.	EI	-----	−1.00	I	---	2½	R.	
19	Fn.–Wy.	EI	-----	−1.14	0	---	2½	R.	
20	An.–Hd.	WI	-----	+0.45	I	4.9	2½		
21	An.–Hd.	WI	-----	−1.22	0	---	3	R.	
28	Wy.–Fn.	WI	-----	−0.59	0	---	3		
Mar. 1	Wy.–Fn.	WI	-----	+0.22	0	---	--	R.	
2	Wy.–Fn.	WI	-----	−0.84	I	4.4	2½		
Nov. 11	Fn.	WI	+0.017	−0.85	0	---	3		
15	Wy.	WI	+0.046	+0.21	I	4.9	3		
16	Hd.	WI	+0.013	+0.12	I	4.4	2		
22	Hd.	EI	+0.020	+0.12	I	4.4	2		
24	Wy.	EI	−0.002	+1.13	I	4.4	2½		
Mean------ 1914.13			+0.014	−0.08					
1914.49									
Corr----------			−0.081	−0.22					

157 H¹. Cephei

				h	m	s	°	′	″			
1913												
Jan. 15	Fn.	WII		4	59	45.78	+85	50	39.43	0	6.5	3½
18	Hd.	EII				46.08			38.98	0	6.5	3
19	Hd.	EII				45.94			39.26	0	7.0	2
30	Hd.	WII				45.49			39.02	0	---	3
Nov. 4	Fn.	EI				45.59			39.21	0	6.5	3
5	R.	EI				46.23			39.18	0	6.0	3
17	Hd.	WI				45.61			39.03	0	6.5	3
20	Hd.	WI				45.39			39.09	0	7.0	2½
Mean	1913.46			4	59	45.76	+85	50	39.15			
Corr						−0.08			−0.39			

157 H¹. Cephei s. p.

				h	m	s	°	′	″			
1913												
Apr. 1	R.	EII		4	59	46.00	+85	50	37.43	0	7.0	2
8	R.	WII				46.15			38.73	0	---	3
17	R.	WII				46.15			38.36	0	6.5	3½
25	Fn.	EII				45.58			38.45	0	7.5	3½
1914												
Mar. 26	Hd.	EI				45.60			38.07	0	6.5	3½
Apr. 3	Fn.	WI				45.80			39.20	0	6.0	2½
27	Wy.	EI				46.23			38.16	0	---	3
May 18	Fn.	WI				45.50			37.92	0	6.5	3
Mean	1913.79			4	59	45.88	+85	50	38.29			
Corr						−0.08			+0.44			

Lacaille 1704

				h	m	s	°	′	″			
1912												
Nov. 20	Fn.	EII		5	0	9.444	−24	30	46.50	0	6.0	3½
22	Fn.	EII				9.573			46.00	0	6.6	3½
29	Fn.	WII				9.532			45.91	0	---	4½
Dec. 3	R.	WII				9.502			46.31	0	6.5	2½
1914												
Jan. 8	R.	EI				9.571			45.70	0	7.5	3½
21	Hd.	WI				9.497			46.15	0	6.0	3
26	R.	WI				9.486			44.89	0	---	5
29	R.	WI				9.488			45.84	0	---	4½
Feb. 3	Wy.	EI				9.496			46.56	0	6.0	3
Mean	1913.55			5	0	9.510	−24	30	45.98			
Corr						−0.081			−0.03			

η Aurigæ

				h	m	s	°	′	″			
				5	0	12.120	+41	6	48.49			
1912												
Jan. 10	Hd.	EII				−0.009			−0.06	0	3.5	2
20	R.	WII				+0.008			+0.35	I	3.4	3
21	Hd.	WII				+0.016			+0.22	I	2.9	--
23	Fn.	EII				−0.012			+0.47	0	---	2½
1915												
Jan. 25	Fn.	EI				−0.029			----	I	2.9	2½
28	Fn.	EI				−0.008			----	I	3.4	2½
Sept. 28	Hd.	EI				−0.030			+0.95	I	2.9	2
29	Fn.	EI				−0.065			+0.57	I	3.4	2½
Oct. 12	Fn.	WI				−0.031			−0.10	I	4.4	2½
21	Fn.	WI				+0.014			+0.42	I	3.9	3
Dec. 2	Hd.	EI				−0.034			----	I	2.9	2
23	Wy.	WI				−0.036			----	I	3.4	4
1916												
Jan. 3	Hd.	EI				+0.019			----	I	2.9	2
24	Hd.	EI				+0.005			----	I	2.9	2
27	Wy.	EI				−0.034			----	0	---	3
Feb. 3	Hd.	EI				+0.019			----	I	3.4	2
1917												
Jan. 2	Wy.	WI				−0.048			----	I	3.9	3
1918												
Jan. 17	Fn.	EII				+0.024			----	0	---	2½
Feb. 15	Fn.	WII				−0.031			----	I	3.9	3
18	Fn.	EII				+0.029			----	I	3.4	2
21	Fn.	EII				+0.005			----	0	---	2
Mar. 1	Hd.	EII				+0.002			----	I	4.4	3
Mean	1915.69					−0.010			+0.35			
	1913.91											
Corr						−0.081			−0.27			

Weisse₂ IV 1293

				h	m	s	°	′	″			
1912												
Jan. 24	R.	EII		5	0	13.466	+33	47	46.32	0	7.5	1½
27	R.	EII				13.534			46.21	0	7.0	1½
Feb. 4	Fn.	WII				13.522			46.92	0	6.8	2
5	Fn.	WII				13.485			46.53	0	7.3	2½
1915												
Nov. 17	Fn.	WI				13.501			46.78	0	7.0	2
27	Wy.	EI				13.499			46.40	0	6.5	2
29	Wy.	EI				13.487			46.33	0	7.0	2½
Dec. 6	Hd.	WI				13.469			46.16	0	7.0	2
Mean	1913.99			5	0	13.495	+33	47	46.46			
Corr						−0.081			−0.26			

Lalande 9579

				h	m	s	°	′	″			
1912												
Dec. 9	Fn.	WII		5	0	24.321	−3	9	49.73	0	6.4	2
12	R.	EII				24.275			49.85	0	6.5	2½
14	R.	EII				24.266			49.50	0	7.0	2
27	Fn.	WII				24.297			49.79	0	6.5	3½
1914												
Feb. 4	Hd.	EI				24.259			49.24	0	6.5	3
7	Hd.	EI				24.297			50.02	0	6.5	3
17	Wy.	WI				24.360			51.26	0	6.5	3
21	Hd.	WI				24.288			50.10	0	6.0	2
Mean	1913.54			5	0	24.295	−3	9	49.94			
Corr						−0.081			−0.17			

Piazzi IV 254

				h	m	s	°	′	″			
1912												
Dec. 15	Fn.	EII		5	1	0.67	+73	49	54.54	0	5.9	2½
16	Fn.	EII				0.69			54.74	0	5.3	1½
28	Hd.	WII				0.60			54.65	0	6.0	3
30	Fn.	WII				0.66			55.21	0	5.7	3
1914												
Feb. 9	Fn.	EI				0.75			54.75	0	6.0	2½
11	Hd.	EI				0.73			54.47	0	6.0	2½
14	Hd.	WI				0.86			54.43	0	---	2½
Mar. 3	Wy.	WI				0.86			54.93	0	6.5	2½
Mean	1913.55			5	1	0.728	+73	49	54.72			
Corr						−0.081			−0.35			

Piazzi IV 254 s. p.

				h	m	s	°	′	″			
1913												
Apr. 19	R.	WII		5	1	0.59	+73	49	54.72	0	6.0	3
20	R.	WII				0.62			54.37	0	6.0	2½
May 3	R.	EII				0.61			54.84	0	6.0	4
5	Hd.	EII				0.62			54.00	0	6.5	3½
1914												
May 21	Fn.	WI				0.60			53.40	0	7.5	3½
June 2	Fn.	EI				0.49			53.43	0	6.0	2½
6	Wy.	EI				0.63			53.79	0	6.5	3½
23	Hd.	WI				0.75			53.33	0	7.5	3
Mean	1913.88			5	1	0.614	+73	49	53.98			
Corr						−0.081			+0.54			

ϵ Leporis

				h	m	s	°	′	″			
				5	1	39.048	−22	29	29.29			
1911												
Dec. 19	Hd.	EII				+0.048			−0.49	I	2.4	3½
25	R.	EII				+0.087			−0.27	I	-----	
1912												
Jan. 15	Fn.	WII				+0.121			−0.08	I	3.1	3½
16	R.	WII				−0.025			−0.49	I	---	4
1915												
Oct. 22	Hd.	WI				+0.073			−0.82	I	3.9	3
25	Wy.	WI				+0.071			−0.71	I	3.4	3½
28	Wy.	EI				+0.060			−1.08	I	4.4	3½
29	Hd.	EI				+0.036			+0.31	I	3.4	3
Mean	1913.91					+0.059			−0.45			
Corr						−0.081			−0.06			

Weisse$_1$ IV 1379

				h	m	s	°	′	″			
1913												
Jan.	8	Fn.	WII	5	3	13.602	−12	36	24.96	0	---	4½
	14	R.	WII			13.600			25.95	0	6.0	1½
	19	Hd.	EII			13.618			25.93	0	7.0	2
	21	Hd.	EII			13.601			25.60	0	6.0	3
1914												
Feb.	12	Fn.	EI			13.648			25.99	0	7.0	2½
	15	Fn.	WI			13.652			25.91	0	6.0	2½
	16	Fn.	WI			13.664			25.93	0	6.5	3
	26	Fn.	EI			13.643			26.32	0	6.5	2½
Mean		1913.59		5	3	13.628	−12	36	25.82			
Corr						−0.081			−0.12			

β Eridani

				h	m	s	°	′	″				
				5	3	25.480	−5	12	8.02				
1911													
Nov.	15	Fn.	EII			−0.027			−0.29	I	2.5	3	
	16	R.	EII			+0.028			−0.10	II	2.6	2½	
Dec.	5	Hd.	WII			−0.017			−1.23	I	2.4	--	
	6	Hd.	WII			−0.017			−1.05	I	2.9	--	
1915													
Feb.	10	Hd.	EI			-----			−1.63	I	---	2½	R.
	17	Fn.–Wy.	EI			-----			−0.56	I	---	3	R.
	18	Hd.–An.	EI			-----			−0.33	II	2.6	3	
	19	Fn.–Wy.	EI			-----			+0.53	I	3.4	2½	
	20	An.–Hd.	WI			-----			−1.76	I	---	2½	R.
	21	An.–Hd.	WI			-----			−0.09	II	3.6	3	
	28	Wy.–Fn.	WI			-----			−0.78	0	---	3	R.
Mar.	1	Wy.–Fn.	WI			-----			−0.31	I	2.9	3	
	2	Wy.–Fn.	WI			-----			−1.76	I	---	3	R.
Nov.	5	Fn.	EI			+0.015			−0.34	I	2.9	2½	
	7	Hd.	EI			−0.005			−0.04	II	2.6	2	
	10	Hd.	WI			+0.014			−0.55	I	3.4	2½	
	11	Fn.	WI			+0.037			−0.77	0	---	3½	
	15	Wy.	WI			+0.054			−0.10	I	2.9	3	
Mean		1914.10				+0.009			−0.36				
Corr		1914.42				−0.081			−0.16				

Bradley 710

				h	m	s	°	′	″			
1912												
Nov.	5	Fn.	WII	5	3	31.699	+19	44	36.65	0	6.7	2
	9	Fn.	WII			31.652			36.58	0	6.4	1½
	16	R.	EII			31.714			36.67	0	7.0	2
	18	Fn.	EII			31.717			36.94	0	6.4	1½
1913												
Nov.	21	Fn.	WI			31.701			37.91	0	6.7	1½
	22	R.	WI			31.709			36.95	0	5.5	1½
Dec.	3	R.	EI			31.686			36.37	0	6.0	2
	5	R.	EI			31.714			36.25	0	6.5	4
Mean		1913.39		5	3	31.699	+19	44	36.79			
Corr						−0.081			−0.23			

Piazzi IV 294

				h	m	s	°	′	″			
1911												
Dec.	27	R.	EII	5	4	0.671	+46	51	6.06	0	6.0	2½
1912												
Jan.	9	R.	EII			0.684			6.58	0	---	3
	22	Hd.	WII			0.661			6.29	0	5.8	--
Feb.	2	Hd.	WII			0.662			6.16	0	6.0	2
1915												
Sept.	22	Wy.	EI			0.613			4.97	I	4.9	2½
	24	Hd.	EI			0.685			6.02	0	6.0	3
Oct.	9	Hd.	WI			0.718			5.58	0	6.0	2
	11	Hd.	WI			0.655			5.30	0	6.0	2
Mean		1913.90		5	4	0.669	+46	51	5.87			
Corr						−0.081			−0.28			

Weisse$_2$ IV 1421

				h	m	s	°	′	″			
1911												
Nov.	18	R.	EII	5	4	5.972	+27	54	60.61	0	---	--
	19	Fn.	EII			5.942			60.61	0	---	2½
	30	R.	WII			5.951			60.74	0	---	3
Dec.	4	Hd.	WII			5.937			60.85	0	---	--
1915												
Nov.	16	Hd.	WI			5.967			60.06	0	6.0	2½
	17	Fn.	WI			5.968			60.44	0	6.0	2
	22	Hd.	EI			6.016			59.50	0	6.0	2
	24	Wy.	EI			6.010			60.51	0	5.5	2½
Mean		1913.89		5	4	5.970	+27	55	0.42			
Corr						−0.081			−0.25			

Bradley 716

				h	m	s	°	′	″			
1912												
Oct.	9	R.	WII	5	4	22.556	+9	42	52.38	0	---	2
	25	Fn.	EII			22.557			53.11	0	5.8	3
Nov.	4	R.	WII			22.547			51.82	0	---	4
	12	R.	EII			22.536			52.72	0	5.5	2
1915												
Jan.	4	Hd.	EI			22.546			52.27	0	6.0	2
	5	Wy.	EI			22.530			52.60	0	6.5	2½
	10	Wy.	WI			22.570			52.30	0	7.0	2
	13	An.	WI			22.558			52.84	I	5.4	2½
Mean		1913.92		5	4	22.550	+9	42	52.50			
Corr						−0.081			−0.21			

B. D.+67° 371

				h	m	s	°	′	″			
1912												
Nov.	22	Fn.	EII	5	4	48.70	+67	22	26.15	0	7.3	2
Dec.	3	R.	WII			48.60			25.21	0	7.5	1½
	12	R.	EII			48.71			25.90	0	7.5	2
1913												
Jan.	4	Hd.	WII			48.64			25.49	0	7.5	3
1914												
Jan.	8	R.	EI			48.59			25.80	0	---	2
	13	Wy.	EI			48.75			25.19	0	7.0	3½
	21	Hd.	WI			48.65			25.67	0	7.0	2
	26	R.	WI			48.59			24.91	0	7.5	3
Feb.	7	Hd.	EI			48.66			25.82	0	7.5	3
Mean		1913.56		5	4	48.654	+67	22	25.57			
Corr						−0.081			−0.33			

μ Aurigæ

				h	m	s	°	′	″				
				5	7	16.020	+38	22	42.89				
1911													
Nov.	21	Fn.	EII			+0.060			−0.73	0	5.1	2	
	22	Hd.	EII			+0.059			−0.01	I	4.1	--	
Dec.	7	Hd.	WII			+0.035			+0.04	I	4.4	--	
1912													
Jan.	15	Fn.	WII			+0.045			+0.74	0	5.0	2	
1915													
Jan.	8	Wy.	EI			+0.094			----	I	4.9	2	
	25	Fn.	EI			+0.095			----	0	5.0	2½	
	28	Fn.	EI			+0.061			----	0	5.5	2½	
Nov.	3	Wy.	EI			+0.034			−0.21	I	4.9	2½	
	7	Hd.	EI			+0.105			+0.41	I	4.4	2	
	9	Wy.	WI			+0.019			+0.58	I	4.4	2	
	10	Hd.	WI			+0.022			+0.12	I	4.4	2	
Dec.	2	Hd.	EI			+0.097			----	I	4.9	2	
	23	Wy.	WI			−0.003			----	0	5.0	3½	
1916													
Jan.	24	Hd.	EI			+0.074			----	0	---	2	
	27	Wy.	EI			+0.062			----	0	---	3½	
1917													
Jan.	2	Wy.	WI			+0.056			----	0	5.0	2½	
1918													
Jan.	17	Fn.	EII			+0.055			----	0	---	2½	
	29	Wy.	WII			−0.003			----	I	4.4	2½	
Feb.	15	Fn.	WII			+0.023			----	0	5.0	2	

			s	″			
1918							
Feb. 18	Fn.	EII	+0.084	----	0	5.0	1½
21	Fn.	EII	+0.135	----	0	---	2
Mar. 1	Hd.	EII	+0.090	----	0	---	3
Mean	1915.73		+0.059	+0.12			
	1913.90						
Corr			−0.081	−0.27			

19 H. Camelopardalis

h	m	s	°	′	″
5	7	42.258	+79	7	47.42

1912								
Jan. 10	Hd.	EII	−0.01	+0.12	0	5.5	3½	
16	R.	WII	−0.05	+0.81	0	---	--	
19	Fn.	WII	+0.07	+0.42	0	5.0	2	
24	R.	EII	+0.03	+0.77	0	5.5	2½	
1915								
Feb. 10	Hd.	EI	----	+0.21	I	4.9	3	
17	Fn.–Wy.	EI	----	+0.52	0	---	2½	
18	Hd.–An.	EI	----	+0.42	0	---	3	R.
19	Fn.–Wy.	EI	----	+0.20	0	---	2½	R.
20	An.–Hd.	WI	----	+1.28	I	4.9	2½	
21	An.–Hd.	WI	----	+1.12	0	---	3	R.
28	Wy.–Fn.	WI	----	+0.22	0	---	3	
Mar. 2	Wy.–Fn.	WI	----	+1.66	0	5.5	3	
3	Wy.–Fn.	WI	----	+0.29	0	---	--	R.
Sept. 28	Hd.	EI	−0.17	+0.43	0	5.5	3	
29	Fn.	EI	−0.22	+0.81	0	5.5	3	
Oct. 21	Fn.	WI	−0.03	+0.40	0	5.5	3	
22	Hd.	WI	+0.01	+0.90	0	6.0	2½	
Mean	1913.91		−0.046	+0.66				
	1914.38							
Corr			−0.081	−0.37				

19 H. Camelopardalis s. p.

h	m	s	°	′	″
5	7	42.260	+79	7	47.23

1912								
June 10	Hd.–Fn.	EII	----	−0.24	0	---	3	R.
10	Hd.–Fn.	EII	----	−0.52	0	---	3	
11	Hd.–Fn.	EII	----	−0.28	0	---	4	R.
11	Hd.–Fn.	EII	----	−0.15	0	---	4	
20	Fn.–Hd.	EII	----	−1.67	0	---	--	R.
20	Fn.–Hd.	EII	----	−0.31	0	---	--	
July 2	Fn.–Hd.	EII	----	−0.61	0	---	--	R.
2	Fn.–Hd.	EII	----	−0.31	0	---	--	
3	Hd.–Fn.	WII	----	−0.36	0	---	--	R.
3	Hd.–Fn.	WII	----	−1.10	0	---	--	
5	Hd.–Fn.	WII	----	−0.53	0	---	--	R.
5	Hd.–Fn.	WII	----	−0.51	0	---	--	
6	Fn.–Hd.	WII	----	+0.24	0	---	--	R.
6	Fn.–Hd.	WII	----	−0.19	0	---	--	
8	Fn.–Hd.	WII	----	−0.24	0	---	--	R.
8	Fn.–Hd.	WII	----	−0.77	0	---	--	
1913								
Apr. 6	R.	WII	+0.03	−0.78	0	6.0	2	
17	R.	WII	−0.21	+0.07	0	5.5	3½	
May 2	Fn.	EII	−0.02	−0.28	0	5.4	3½	
3	R.	EII	−0.07	−0.06	0	6.0	3	
1914								
May 19	Wy.	WI	−0.24	−0.52	0	---	3½	
20	Hd.	WI	−0.21	−0.84	0	6.5	3	
26	Wy.	EI	−0.24	−0.34	0	6.0	3	
June 2	Fn.	EI	−0.18	−1.04	0	5.5	2½	
Mean	1913.85		−0.142	−0.48				
	1913.17							
Corr			−0.081	+0.49				

μ Leporis

h	m	s	°	′	″
5	8	53.312	−16	18	41.31

1912								
Nov. 9	Fn.	WII	+0.054	−1.08	0	---	--	
18	Fn.	EII	+0.006	+0.37	I	2.9	2	

			s	″			
1912							
Nov. 20	Fn.	EII	+0.022	+0.10	I	2.9	3
29	Fn.	WII	+0.029	−0.59	0	---	4
1914							
Jan. 27	Fn.	WI	+0.007	+0.25	0	---	3½
Feb. 4	Hd.	EI	+0.037	+0.09	I	4.4	3
11	Hd.	EI	−0.003	+0.30	I	3.9	2½
15	Fn.	WI	+0.074	−0.27	0	---	2½
Mean	1913.49		+0.028	−0.10			
Corr			−0.081	−0.11			

Bradley 729

			h	m	s	°	′	″			
1911											
Dec. 5	Hd.	WII	5	9	13.654	−8	15	11.74	0	7.0	--
6	Hd.	WII			13.684			12.49	0	7.0	--
19	Hd.	EII			13.615			11.38	0	7.0	--
25	R.	EII			13.685			11.46	0	5.5	3½
1915											
Nov. 15	Wy.	WI			13.721			11.51	0	7.0	3
16	Hd.	WI			13.681			12.51	0	6.5	3
22	Hd.	EI			13.639			11.88	0	6.5	2
24	Wy.	EI			13.647			12.15	0	7.0	3
Mean	1913.92		5	9	13.666	−8	15	11.89			
Corr					−0.081			−0.15			

α Aurigæ

h	m	s	°	′	″
5	10	2.353	+45	54	25.00

1912								
Oct. 9	R.	WII	+0.036	+0.32	III	−0.5	1½	
25	Fn.	EII	+0.053	−0.23	II	0.2	2	
Nov. 5	Fn.	WII	−0.037	+0.34	II	0.0	2	
12	R.	EII	+0.043	−0.58	III	0.0	1½	
1914								
Jan. 8	R.	EI	−0.010	+0.14	II	1.1	2	
21	Hd.	WI	+0.064	+0.38	II	0.6	2	
26	R.	WI	+0.016	+0.56	II	---	4	
Feb. 7	Hd.	EI	+0.058	+0.99	II	0.6	--	
1915								
Dec. 23	Wy.	WI	+0.019	----	II	---	3½	
1918								
Jan. 17	Fn.	EII	+0.037	----	I	---	2½	
Feb. 15	Fn.	WII	+0.002	----	II	0.6	2½	
18	Fn.	EII	+0.097	----	II	0.6	1½	
21	Fn.	EII	+0.107	----	I	---	2	
Mar. 1	Hd.	EII	+0.045	----	II	---	3	
Mean	1915.30		+0.038	+0.24				
	1913.44							
Corr			−0.081	−0.28				

β Orionis [1]

h	m	s	°	′	″
5	10	12.716	−8	18	17.99

			s	″	″			
1911								
June 19	*Hd.*	*EII*	*−0.044*	*+0.43*	*+0.66*	*0*	---	--
20	*T.*	*EII*	*−0.011*	----	----	*0*	---	--
21	*Fn.*	*EII*	*−0.006*	----	----	*0*	---	--
26	*Hd.*	*WII*	*+0.091*	*−1.13*	*−0.94*	*0*	---	--
27	*T.*	*WII*	*−0.011*	----	----	*0*	---	--
28	*Fn.*	*WII*	*+0.052*	----	----	*0*	---	--
29	*Hd.*	*WII*	*+0.043*	*−0.67*	*−0.55*	*0*	---	--
July 4	*R.*	*EII*	*+0.158*	*+0.33*	*+0.25*	*0*	---	--
5	*Fn.*	*EII*	*+0.068*	*+0.03*	*+0.09*	*0*	---	--
6	*Hd.*	*EII*	-----	*+0.43*	*+0.56*	*0*	---	*5*
9	*Fn.*	*WII*	*+0.019*	*−0.83*	*−0.71*	*0*	---	--
20	*Hd.*	*EII*	-----	*+0.20*	*+0.22*	*0*	---	--
21	*R.*	*EII*	*+0.131*	*−0.07*	*−0.03*	*0*	---	--
23	*Fn.*	*EII*	*+0.064*	*−0.29*	*−0.33*	*0*	---	--
24	*Hd.*	*EII*	*+0.136*	*+0.52*	*+0.60*	*0*	---	*5*
25	*R.*	*WII*	*+0.126*	*−0.73*	*−0.79*	*0*	---	--
26	*Fn.*	*WII*	*+0.076*	*0.00*	*0.00*	*0*	---	--
27	*Hd.*	*WII*	*+0.115*	*−0.55*	*−0.55*	*0*	---	*3*
31	*Hd.*	*WII*	*+0.060*	*−0.90*	*−1.10*	*0*	---	*3*

[1] Double; n. fol. component observed.

				s	"	"				
1911										
Aug.	*1*	*R.*	*WII*	-----	*+0.50*	*+0.32*	*0*	---	--	
	9	*R.*	*EII*	*+0.110*	*−0.01*	*−0.37*	*I*	---	--	
	10	*Fn.*	*EII*	-----	*+1.77*	*+1.46*	*0*	---	*2½*	
	15	*Fn.*	*EII*	*+0.097*	*−0.25*	*−0.31*	*I*	---	*3*	
	20	*Fn.*	*EII*	*+0.078*	*+0.28*	*−0.02*	*0*	---	--	
	22	*Fn.*	*WII*	-----	*+0.70*	*+0.49*	*0*	---	*3*	
Sept.	*1*	*R.*	*WII*	*+0.089*	*−0.49*	*−0.51*	*0*	---	--	
Dec.	1	R.	WII	+0.057		----	0	---	1½	
	4	Hd.	WII	+0.056		----	I	---	4	
	27	R.	EII	+0.050		----	0	---	4	
1912										
Jan.	9	R.	EII	+0.019		----	II	1.1	3½	
	21	Hd.	WII	+0.070		−0.77	II	0.6	--	
	22	Hd.	WII	+0.077		−0.48	II	0.6	3½	
	27	R.	EII	+0.089		+0.27	II	1.1	4	
Feb.	1	Fn.	EII	+0.044		−0.11	II	---	3	
	2	Hd.	WII	+0.064		----	II	0.6	--	
	4	Fn.	WII	+0.074		−0.51	II	0.7	3	
	5	Fn.	WII	+0.106		----	II	0.5	3	
	6	Hd.	EII	+0.062		+0.27	III	−0.5	2	
	8	Fn.	EII	+0.069		+0.12	II	0.2	3½	
	9	Hd.	EII	+0.100		−0.32	II	0.6	3	
	13	Hd.	EII	+0.067		+0.01	III	−0.5	3	
	14	R.	EII	+0.022		+0.48	II	1.1	1	
	16	Hd.	EII	+0.159		+0.27	II	---	2	
	17	R.	EII	+0.041		−0.01	II	1.6	3	
	22	R.	WII	+0.075		----	II	0.6	4	
	23	Hd.	WII	+0.087		−0.14	III	−0.5	3	
	27	Hd.	WII	+0.084		−0.73	II	0.9	3	
July	*26*	*Fn.*	*WII*	*+0.037*	*−0.95*	*−0.95*	*0*	---	*3½*	
	29	*R.*	*WII*	*+0.057*	*−0.30*	*−0.26*	*0*	---	*5*	
Aug.	*1*	*Fn.*	*WII*	-----	*+0.19*	*+0.17*	*0*	---	*3½*	
	2	*R.*	*EII*	*+0.079*	*+0.66*	*+0.72*	*0*	---	*5*	
	4	*Fn.*	*EII*	*+0.052*	*+0.76*	*+0.74*	*0*	---	*3*	
	12	*R.*	*EII*	-----	*+1.08*	*+1.04*	*0*	---	*5*	
	18	*Fn.*	*WII*	-----	*+0.54*	*+0.33*	*0*	---	*2½*	
	20	*Fn.*	*WII*	-----	*−0.69*	*−0.73*	*0*	---	*3*	
	22	*Fn.*	*WII*	*+0.067*	*−0.77*	*−0.73*	*0*	---	*3½*	
Nov.	16	R.	EII	+0.064		+0.16	III	−0.5	2	
Dec.	3	R.	WII	+0.100		−0.54	II	1.1	2	
	9	Fn.	WII	+0.095		−0.42	II	0.5	3½	
	12	R.	EII	+0.077		----	II	1.1	2	
	16	Fn.	EII	+0.061		----	II	0.5	3	
	20	Fn.	EII	+0.036		----	II	0.3	3	
	27	Fn.	WII	+0.082		----	II	---	4	
	28	Hd.	WII	+0.098		−0.15	II	0.9	3	
1913										
Jan.	4	Hd.	WII	+0.050		----	II	1.1	3	
	8	Fn.	WII	+0.071		----	II	---	4	
	14	R.	WII	+0.051		----	II	1.1	1½	
	15	Fn.	WII	+0.033		----	II	1.4	3½	
	18	Hd.	EII	+0.060		+0.98	II	0.6	3	
	19	Hd.	EII	+0.037		----	II	1.1	2	
	21	Hd.	EII	+0.024		----	II	0.6	3	
	22	Fn.	EII	+0.010		----	II	0.6	2	
	25	Hd.	EII	+0.090		0.00	II	0.6	2	
	26	Hd.	EII	+0.080		−0.30	II	0.9	3	
	28	R.	EII	+0.052		−0.10	II	1.1	2	
	30	Hd.	WII	+0.073		----	II	---	3	
Feb.	1	Hd.	WII	+0.059		----	II	0.6	3	
	4	Hd.	WII	+0.057		−1.09	II	0.6	3	
	5	Fn.	WII	+0.045		−0.19	I	---	2	
June	*17*	*R.*	*EII*	*+0.060*	*−0.71*	*−0.46*	*0*	---	*5*	
	29	*Hd.*	*EII*	*+0.049*	*−0.01*	*+0.07*	*0*	---	*3*	
	30	*Fn.*	*EII*	*+0.022*	*−0.05*	*+0.01*	*0*	---	*3½*	
July	*2*	*R.*	*EII*	*+0.060*	*+0.25*	*+0.44*	*0*	---	*5*	
	4	*Fn.*	*EII*	*+0.059*	*−0.13*	*−0.05*	*0*	---	*3½*	
	6	*Hd.*	*WII*	*+0.082*	*−0.55*	*−0.43*	*0*	---	*3½*	
	7	*Fn.*	*WII*	*+0.080*	*+0.57*	*+0.65*	*0*	---	*4*	
	9	*Fn.*	*WII*	*+0.125*	*−0.45*	*−0.30*	*0*	---	*4*	
	10	*Hd.*	*WII*	*+0.004*	*+0.93*	*+1.10*	*0*	---	*4*	
Nov.	4	Fn.	EI	+0.082		+0.14	II	0.1	3	
	5	R.	EI	+0.057		−0.90	III	---	2	
	10	Hd.	WI	+0.038		−0.64	II	0.6	3½	
	17	Hd.	WI	+0.056		−0.76	II	1.6	3½	
	20	Hd.	WI	+0.029		−0.55	II	1.1	3	
	21	Fn.	WI	+0.019		+0.61	II	0.1	2	
	22	R.	WI	+0.014		−0.09	III	−0.5	1½	
1913										
Dec.	5	R.	EI	+0.126		−0.27	II	---	5	
	11	Hd.	EI	+0.081		----	II	1.1	3	
	30	Wy.	WI	+0.082		+0.37	II	1.1	3	
1914										
Feb.	12	Fn.	EI	+0.031		+0.18	II	1.6	2	
	14	Hd.	WI	+0.091		----	0	---	3	
	16	Fn.	WI	+0.086		----	II	0.6	3	
	17	Wy.	WI	+0.161		----	II	1.6	3	
	21	Hd.	WI	+0.040		−0.60	II	0.6	3	
	25	Hd.	EI	+0.029		----	I	---	2	
	27	Wy.	EI	+0.070		−0.50	0	---	3	
Mar.	3	Wy.	WI	+0.096		−0.32	II	1.1	3	
May	*26*	*Wy.*	*EI*	*+0.105*	*+0.07*	*+0.05*	*0*	---	*3½*	
June	*1*	*Hd.*	*EI*	-----	*+0.85*	*+1.19*	*0*	---	*3*	
	2	*Fn.*	*EI*	*+0.119*	*−0.28*	*+0.04*	*0*	---	*4*	
	3	*Wy.*	*EI*	*+0.087*	*+0.34*	*+0.55*	*0*	---	*4*	
	5	*Fn.*	*EI*	*+0.042*	*−0.70*	*−0.40*	*0*	---	*4*	
	10	*Fn.*	*EI*	*+0.049*	-----	-----	*0*	---	*3½*	
	12	*Wy.*	*EI*	*+0.177*	*+0.75*	*+1.37*	*0*	---	*4*	
	14	*Fn.*	*EI*	*+0.064*	*+0.03*	*+0.34*	*0*	---	*3½*	
	15	*Hd.*	*EI*	*+0.049*	*−1.06*	*−0.92*	*0*	---	*3½*	
	16	*Wy.*	*EI*	*+0.030*	*−0.81*	*−0.14*	*0*	---	*3½*	
	19	*Wy.*	*WI*	*+0.063*	*−0.86*	*−0.22*	*0*	---	*4*	
	22	*Hd.*	*WI*	*−0.083*	-----	-----	*0*	---	*3½*	
	23	*Wy.*	*WI*	*+0.072*	*−1.08*	*−0.86*	*0*	---	*3½*	
	25	*Hd.*	*WI*	-----	*−0.01*	*+0.26*	*0*	---	*3½*	
	28	*Fn.*	*WI*	*+0.068*	*+1.05*	*+1.29*	*0*	---	*4*	
	29	*Hd.*	*WI*	*+0.044*	*−0.17*	*+0.02*	*I*	---	*3*	
July	*2*	*Hd.*	*WI*	*+0.094*	*−0.18*	*−0.02*	*I*	---	*3*	
	7	*Fn.*	*WI*	*+0.090*	*+0.22*	*+0.22*	*0*	---	*4*	
	16	*Hd.*	*WI*	*+0.099*	*+0.20*	*+0.19*	*0*	---	*3*	
	19	*Fn.*	*EI*	*+0.037*	*+0.46*	*+0.56*	*0*	---	*3½*	
	20	*Hd.*	*EI*	*+0.059*	*−0.24*	*−0.32*	*I*	---	*3*	
	21	*Fn.*	*EI*	*+0.083*	*−0.32*	*−0.18*	*0*	---	*3½*	
	22	*Hd.*	*EI*	-----	*+0.23*	*+0.27*	*0*	---	*3*	
	26	*Fn.*	*EI*	*+0.039*	*+0.25*	*+0.19*	*0*	---	*3½*	
	28	*Fn.*	*EI*	*+0.027*	*−0.40*	*−0.36*	*0*	---	*3½*	
	30	*Fn.*	*EI*	*+0.072*	*+0.64*	*+0.68*	*0*	---	*3*	
Aug.	*2*	*Fn.*	*EI*	*+0.090*	*−0.14*	*−0.01*	*0*	---	*3½*	
	6	*Hd.*	*EI*	*+0.082*	*−0.35*	*−0.52*	*0*	---	*3*	
	7	*Wy.*	*EI*	*−0.017*	*+0.79*	*+0.64*	*0*	---	*3*	
	10	*Wy.*	*WI*	-----	*−0.83*	*−0.99*	*I*	---	*3½*	
	13	*Wy.*	*WI*	*+0.031*	*−0.39*	*−0.59*	*0*	---	*3½*	
	16	*Fn.*	*WI*	*+0.043*	*−1.80*	*−1.96*	*0*	---	*3*	
	17	*Wy.*	*WI*	*+0.059*	*−0.38*	*−0.52*	*I*	---	*3½*	
	21	*An.*	*WI*	*+0.024*	*+0.42*	*+0.45*	*I*	---	*3*	
	31	*Wy.*	*WI*	-----	*−1.01*	*−1.03*	*I*	---	*3*	
Sept.	*1*	*Wy.*	*WI*	*+0.032*	*−0.84*	*−0.91*	*I*	---	*3*	
	3	*Fn.*	*WI*	*+0.045*	*+0.88*	*+0.81*	*I*	---	*2½*	
	9	*An.*	*EI*	*+0.068*	*−1.22*	*−1.15*	*II*	---	*3½*	
	14	*An.*	*EI*	*+0.043*	*−0.32*	*−0.28*	*II*	---	*3½*	
1915										
Jan.	4	Hd.	EI	+0.001		−0.61	II	1.1	2½	
	5	Wy.	EI	+0.048		−0.76	II	1.6	3	
	7	Hd.	EI	+0.018		−0.64	II	0.6	3	
	8	Wy.	EI	+0.006		−0.55	II	1.1	3	
	10	Wy.	WI	+0.093		−0.82	II	1.1	2½	
	15	Fn.	WI	+0.047		−1.38	II	0.6	3	
	16	An.	WI	+0.120		----	0	---	3	
	21	Wy.	EI	+0.046		----	II	1.6	3½	
May	*27*	*Wy.*	*WI*	*+0.140*	*+0.22*	*+0.92*	*0*	---	*4*	
	31	*Wy.*	*WI*	*−0.014*	*−1.19*	*−0.83*	*0*	---	*4½*	
June	*8*	*Hd.*	*EI*	*+0.089*	*−0.76*	*−0.58*	*0*	---	*3½*	
	11	*An.*	*WI*	-----	*−0.37*	*0.00*	*0*	---	*3½*	
	13	*Fn.*	*WI*	-----	*+0.24*	*+0.62*	*0*	---	*4*	
	14	*Hd.*	*WI*	-----	*+0.15*	*+0.44*	*0*	---	*4*	
	17	*Hd.*	*WI*	*+0.146*	-----	-----	*0*	---	*4*	
	18	*Wy.*	*WI*	*+0.068*	*−0.20*	*−0.07*	*0*	---	*4*	
	22	*An.*	*EI*	-----	*−1.18*	*−0.91*	*0*	---	*4*	
	23	*Fn.*	*EI*	*+0.091*	*+0.04*	*+0.31*	*0*	---	*4*	
	24	*Wy.*	*EI*	*+0.003*	*−0.16*	*+0.11*	*0*	---	*4*	
	27	*Wy.*	*EI*	*+0.065*	*−0.11*	*+0.40*	*0*	---	*4*	
	28	*Hd.*	*EI*	*+0.137*	*−0.38*	*−0.34*	*I*	---	*3½*	
	30	*Wy.*	*WI*	-----	*−0.71*	*−0.40*	*0*	---	*3½*	
July	*5*	*Fn.*	*WI*	*−0.031*	*−0.30*	*−0.10*	*0*	---	*4½*	
	6	*An.*	*WI*	-----	*−0.28*	*−0.23*	*0*	---	*3½*	
	8	*Fn.*	*WI*	*+0.006*	*+0.35*	*+0.46*	*0*	---	--	
	13	*An.*	*WI*	*+0.044*	*−0.26*	*−0.17*	*I*	---	*3½*	

				s	″	″			
1915									
July	14	*Hd.*	*WI*	-----	*−0.08*	*−0.11*	*0*	---	3½
	15	*Fn.*	*WI*	*+0.037*	*−0.15*	*−0.17*	*0*	---	3½
	16	*An.*	*WI*	*−0.023*	*−0.57*	*−0.44*	*I*	---	3½
	18	*Fn.*	*EI*	-----	*−1.65*	*−1.71*	*0*	---	3½
	23	*An.*	*EI*	*−0.003*	*−0.37*	*−0.24*	*0*	---	3½
	25	*Fn.*	*EI*	*+0.063*	*+0.24*	*+0.17*	*0*	---	3½
	29	*Hd.*	*EI*	-----	*−0.19*	*−0.28*	*I*	---	*3*
	30	*An.*	*EI*	*+0.095*	*−0.28*	*−0.24*	*0*	---	3½
Aug.	*3*	*Hd.*	*EI*	-----	*+0.01*	*−0.03*	*I*	---	*3*
	5	*An.*	*EI*	-----	*−0.47*	*−0.36*	*I*	---	3½
	12	*An.*	*EI*	*−0.005*	*+1.00*	*+0.85*	*I*	---	3½
Sept.	22	Wy.	EI	+0.059		----	III	0.0	2½
	24	Hd.	EI	+0.058		----	II	1.1	3
Nov.	5	Fn.	EI	+0.055		----	II	0.6	2½
	17	Fn.	WI	+0.106		−0.57	II	0.6	2½
	27	Wy.	EI	+0.074		−0.43	II	1.1	2½
	29	Wy.	EI	+0.030		−0.52	II	0.6	2½
	30	Hd.	EI	+0.085		−0.66	II	1.1	3
Dec.	2	Hd.	EI	+0.014		----	II	1.1	3
	4	Fn.	EI	+0.070		−0.57	II	0.6	2½
	6	Hd.	WI	+0.101		−0.49	II	1.1	3
	8	Wy.	WI	+0.077		−0.91	II	1.6	3
	9	Fn.	WI	+0.070		−1.06	II	1.1	3
	10	Hd.	WI	−0.005		−0.45	II	1.1	2½
	22	Wy.	WI	+0.085		----	II	1.6	3
1916									
Jan.	8	Hd.	EI	+0.046		−0.05	II	0.6	3½
	19	Fn.	EI	+0.026		+0.77	I	---	2½
	24	Hd.	EI	+0.072		+0.04	II	---	2
	26	Wy.	EI	+0.055		+0.16	I	---	3
	27	Wy.	EI	+0.054		----	0	---	3½
Mar.	*11*	*Wy.*	*WI*	*+0.058*	----	----	*II*	---	*3*
	16	*Hd.*	*WI*	*+0.116*	----	----	*I*	---	*3*
June	*11*	*Wy.*	*EI*	*+0.134*	*−0.35*	*−0.01*	*0*	---	4½
	21	*Fn.*	*WI*	*−0.001*	*−1.11*	*−0.95*	*0*	---	*4*
	22	*Hd.*	*WI*	*−0.002*	*+0.12*	*+0.39*	*0*	---	3½
	25	*Hd.*	*WI*	*+0.027*	*−0.41*	*−0.24*	*0*	---	3½
	28	*Hd.*	*WI*	*−0.035*	*−0.55*	*−0.33*	*0*	---	3½
July	*2*	*Wy.*	*WI*	*+0.032*	*−0.72*	*−0.55*	*0*	---	3½
	5	*Wy.*	*EI*	*+0.057*	*+0.17*	*+0.42*	*0*	---	*4*
	6	*Fn.*	*EI*	*+0.098*	*+0.92*	*+1.05*	*0*	---	3½
	12	*Hd.*	*EI*	*+0.055*	*−0.51*	*−0.51*	*I*	---	*3*
	17	*Wy.*	*EI*	*+0.061*	*−0.10*	*−0.11*	*0*	---	3½
	26	*Fn.*	*WI*	*+0.004*	*−0.86*	*−0.88*	*0*	---	3½
Aug.	*20*	*Wy.*	*EI*	*−0.006*	*+0.37*	*+0.32*	*0*	---	*3*
	21	*Fn.*	*EI*	*+0.087*	*−0.01*	*−0.18*	*0*	---	3½
	24	*Fn.*	*WI*	*+0.007*	*−0.21*	*−0.25*	*I*	---	2½
	31	*Fn.*	*WI*	*+0.017*	*−0.72*	*−0.76*	*0*	---	*3*
Sept.	*7*	*Wy.*	*WI*	*+0.054*	*−0.65*	*−0.66*	*I*	---	3½
	19	Wy.	EI	−0.014		−0.28	II	1.1	2½
1917									
Jan.	2	Wy.	WI	+0.078		−0.34	II	1.6	3
	11	Wy.	EI	+0.080		−1.09	II	1.6	3
	19	Hd.	EI	+0.062		−0.03	II	1.1	2
Mar.	6	Fn.	WI	+0.053		−0.61	II	1.1	2½
	8	*Wy.*	*WI*	*+0.098*	----	----	*II*	---	3½
Apr.	*10*	*Fn.*	*WI*	*+0.059*	*−0.53*	*−0.46*	*0*	---	3½
	17	*Wy.*	*WI*	*+0.079*	*−0.15*	*−0.11*	*0*	---	*4*
May	*1*	*Fn.*	*EI*	*+0.028*	*−0.73*	*−0.61*	*0*	---	3½
	3	*Hd.*	*EI*	*+0.073*	*−0.14*	*+0.13*	*0*	---	*4*
	10	*Fn.*	*WI*	*+0.106*	*−0.95*	*−0.74*	*0*	---	3½
	15	*Hd.*	*WI*	*+0.043*	*−1.01*	*−0.91*	*0*	---	3½
	18	*Hd.*	*WI*	*+0.135*	*−0.74*	*−0.59*	*0*	---	3½
June	*4*	*Wy.*	*WI*	*+0.006*	----	----	*0*	---	4½
	18	*Fn.*	*WII*	*+0.058*	----	----	*0*	---	3½
	20	*Wy.*	*WII*	*+0.052*	*+0.25*	*+0.45*	*0*	---	3½
	21	*Fn.*	*WII*	*+0.184*	*−0.40*	*+0.02*	*0*	---	*4*
	24	*Wy.*	*WII*	*+0.040*	*−0.40*	*−0.18*	*0*	---	4½
	27	*Wy.*	*EII*	-----	*+0.32*	*+0.73*	*0*	---	*4*
July	*1*	*Hd.*	*EII*	-----	*−0.88*	*−0.78*	*I*	---	3½
	29	*Wy.*	*EII*	*+0.092*	*−0.03*	*−0.05*	*I*	---	*4*
	30	*Fn.*	*EII*	*+0.013*	*−1.34*	*−1.28*	*0*	---	3½
Aug.	*5*	*Hd.*	*WII*	*+0.047*	*+1.89*	*+1.79*	*I*	---	*3*
	12	*Fn.*	*WII*	*+0.053*	*+0.64*	*+0.56*	*0*	---	*3*
	13	*Hd.*	*WII*	*+0.078*	*+0.15*	*+0.07*	*I*	---	*3*
	17	*Wy.*	*WII*	*+0.063*	*−0.10*	*−0.09*	*II*	---	3½
	19	*Fn.*	*WII*	*+0.007*	*−0.04*	*−0.20*	*0*	---	3½
	20	*Wy.*	*WII*	*+0.044*	*+0.17*	*+0.05*	*I*	---	3½

				″	″			
1917								
Aug.	*24*	*Wy.*	*EII*	*+0.055*	*−0.23*	*−0.28*	*I*	--- 3½
Sept.	*3*	*Fn.*	*EII*	*+0.057*	*−0.06*	*−0.02*	*0*	--- *3*
	10	*Fn.*	*EII*	*+0.024*	*+0.05*	*+0.14*	*I*	--- *3*
1918								
Jan.	10	Fn.	EII	+0.002		−0.87	II	1.1 3
	29	Wy.	WII	+0.071		−0.88	II	1.6 2½
Feb.	11	Wy.	WII	+0.017		+0.03	II	--- 3½
	12	Fn.	WII	+0.076		−0.15	I	--- 3½
	28	Wy.	EII	+0.072		+0.11	II	--- 4
Mar.	*7*	*Fn.*	*EII*	*+0.125*	*+0.42*	*+0.49*	*II*	--- *3*
	8	*Wy.*	*EII*	*+0.062*	*−0.38*	*−0.33*	*II*	--- 2½
	15	*Fn.*	*WII*	*+0.024*	*−1.27*	*−1.17*	*0*	--- *3*
	25	*Fn.*	*WII*	*+0.022*	*−0.51*	*−0.49*	*I*	--- *3*
	26	*Wy.*	*WII*	*+0.083*	*+0.12*	*+0.23*	*I*	--- 3½
	28	*Fn.*	*WII*	*+0.023*	*−0.06*	*+0.01*	*I*	--- *3*
Apr.	*2*	*Fn.*	*EII*	*+0.031*	*+0.63*	*+0.83*	*0*	--- 3½
June	*23*	*Wy.*	*WII*	*+0.017*	*−0.04*	*+0.29*	*0*	--- 3½
	27	*Hd.*	*WII*	*+0.070*	*+0.23*	*+0.39*	*0*	--- 3½
July	*1*	*Hd.*	*WII*	*+0.041*	*−0.15*	*+0.02*	*0*	--- *4*
	8	*Hd.*	*EII*	*−0.004*	*+0.24*	*+0.42*	*I*	--- *4*
	10	*Wy.*	*EII*	*+0.035*	*+1.16*	*+1.36*	*0*	--- *4*
	14	*Wy.*	*EII*	*−0.035*	*+0.06*	*+0.20*	*0*	--- *4*
	15	*Hd.*	*EII*	*+0.100*	*−0.51*	*−0.50*	*I*	--- 3½
	17	*Wy.*	*EII*	*+0.059*	*+0.41*	*+0.55*	*0*	--- *4*
	22	*Fn.*	*EII*	*+0.039*	*+0.33*	*+0.36*	*0*	--- 3½
	24	*Fn.*	*EII*	*−0.024*	*−0.03*	*−0.04*	*0*	--- 3½
Aug.	*1*	*Hd.*	*WII*	*+0.049*	*−0.50*	*−0.52*	*0*	--- *3*
	7	*Wy.*	*WII*	*+0.017*	*−0.19*	*−0.18*	*0*	--- *4*
	8	*Hd.*	*WII*	*+0.052*	*+0.61*	*+0.54*	*0*	--- 3½
	11	*Fn.*	*WII*	*+0.055*	*−1.60*	*−1.32*	*0*	--- 3½
	12	*Wy.*	*WII*	*+0.023*	*+0.29*	*+0.28*	*0*	--- 3½
	14	*Fn.*	*WII*	*0.000*	*+0.16*	*+0.13*	*0*	--- 3½
	15	*Hd.*	*WII*	*+0.070*	*−0.31*	*−0.53*	*0*	--- 3½
Mean			1914.18	+0.061		−0.31		
			1914.46					
Corr				−0.081		−0.15		

λ Aurigæ

h	m	s	°	′	″
5	12	48.745	+40	1	9.17

1911								
Nov.	18	R.	EII	+0.033		−0.22	I	4.4 1½
	21	Fn.	EII	+0.005		−0.16	0	5.0 2
	30	R.	WII	+0.093		−0.34	0	5.5 2½
Dec.	4	Hd.	WII	+0.039		−0.32	0	--- ---
1915								
Sept.	22	Wy.	EI	+0.015		−0.01	I	4.4 2½
	24	Hd.	EI	+0.027		+0.33	I	4.4 2
Oct.	9	Hd.	WI	+0.025		+0.33	I	4.4 2
	11	Hd.	WI	+0.039		−0.34	I	4.4 2
Dec.	2	Hd.	EI	+0.030		----	I	4.4 2
1916								
Feb.	3	Hd.	EI	+0.052		----	I	4.4 2
1918								
Jan.	17	Fn.	EII	+0.059		----	0	--- 2½
Feb.	18	Fn.	EII	+0.067		----	0	5.0 2
	21	Fn.	EII	+0.125		----	0	--- 2
Mar.	1	Hd.	EII	+0.051		----	0	--- 3
Mean			1915.36	+0.047		−0.09		
			1913.82					
Corr				−0.081		−0.27		

Carrington 727

h	m	s	°	′	″
5	13	12.61	+85	35	58.71

1912								
Dec.	12	R.	EII	12.61		58.71	0	7.5 2
	16	Fn.	EII	12.16		58.46	0	7.0 2½
	30	Fn.	WII	12.45		58.92	0	6.7 3
1913								
Jan.	4	Hd.	WII	12.10		58.04	0	7.0 3½
1914								
Jan.	29	R.	WI	12.30		57.47	0	--- 5
Feb.	9	Fn.	EI	12.56		57.36	0	7.0 3
	11	Hd.	EI	12.43		57.80	0	7.5 3
	15	Fn.	WI	11.99		56.86	0	7.0 2½
Mean			1913.54	5 13 12.32		+85 35 57.95		
Corr				−0.08		−0.39		

Carrington 727 s. p.

			h m s	° ′ ″			
1911			5 13 11.99	+85 35 57.76	0	7.0	2
July 14	Hd.	WII					
15	R.	WII	12.25	57.09	0	7.0	2½
20	Fn.	EII	12.43	56.64	0	---	--
22	R.	EII	12.42	56.07	0	7.0	3
1915							
June 22	Wy.	EI	12.01	57.49	0	7.5	3
24	Fn.	EI	11.96	58.25	0	7.0	3½
July 6	Fn.	WI	11.38	57.01	0	7.0	3
8	Hd.	WI	12.16	57.00	0	7.5	3
Mean	1913.52		5 13 12.08	+85 35 57.16			
Corr			−0.08	+0.44			

τ Orionis

			h m s	° ′ ″				
			5 13 14.161	−6 56 27.79				
1913								
Jan. 8	Fn.	WII	+0.004	−0.25	0	---	4	
14	R.	WII	+0.035	−0.16	I	3.9	1½	
18	Hd.	EII	+0.007	+0.01	I	3.4	3	
19	Hd.	EII	+0.009	0.00	I	3.9	2	
1914								
Feb. 16	Fn.	WI	+0.040	−0.30	I	3.9	3	
17	Wy.	WI	+0.068	−0.82	0	4.5	3½	
25	Hd.	EI	0.000	+0.08	0	---	3	
26	Fn.	EI	+0.028	−0.07	0	---	2½	
1915								
Feb. 10	Hd.	EI	-----	−0.24	I	---	3	
17	Fn.–Wy.	EI	-----	−0.44	I	3.4	3	
18	Hd.–An.	EI	-----	−1.23	I	---	2½	R.
19	Fn.–Wy.	EI	-----	−1.51	0	---	2½	R.
20	An.–Hd.	WI	-----	−0.40	I	3.9	2½	
21	An.–Hd.	WI	-----	−2.26	I	---	3	R.
28	Wy.–Fn.	WI	-----	−0.28	0	---	3	
Mar. 1	Wy.–Fn.	WI	-----	−0.94	0	---	--	R.
2	Wy.–Fn.	WI	-----	+0.44	I	4.4	3½	
3	Wy.–Fn.	WI	-----	−0.04	0	---	--	R.
Mean	1913.59		+0.024	−0.19				
	1914.19							
Corr			−0.081	−0.15				

Bradley 741

			h m s	° ′ ″			
1912			5 13 52.084	+22 0 15.18	I	4.4	3
Jan. 9	R.	EII					
10	Hd.	EII	52.087	14.54	0	5.5	--
16	R.	WII	52.033	14.83	0	5.5	3
19	Fn.	WII	52.102	15.38	0	5.3	2½
1915							
Nov. 3	Wy.	EI	52.100	13.62	I	4.4	2½
5	Fn.	EI	52.120	14.30	0	5.5	2
9	Wy.	WI	52.122	14.65	I	4.4	2
10	Hd.	WI	52.085	14.35	I	4.4	2
Mean	1913.94		5 13 52.092	+22 0 14.61			
Corr			−0.081	−0.23			

Oeltzen 5729

			h m s	° ′ ″			
1911			5 13 56.934	+54 9 35.50	0	6.5	--
Nov. 22	Hd.	EII					
Dec. 7	Hd.	WII	56.945	35.61	0	7.0	--
27	R.	EII	56.886	35.34	0	---	1½
1912							
Jan. 15	Fn.	WII	56.949	35.81	0	6.7	2½
1915							
Sept. 28	Hd.	EI	56.888	35.65	0	6.5	2
29	Fn.	EI	56.836	35.46	0	6.5	2½
Oct. 12	Fn.	WI	56.911	35.62	0	6.5	2
21	Fn.	WI	56.904	34.83	0	7.0	3
Mean	1913.86		5 13 56.907	+54 9 35.48			
Corr			−0.081	−0.30			

o Columbæ •

			h m s	° ′ ″			
			5 14 14.191	−34 58 59.86			
1913							
Jan. 15	Fn.	WII	+0.173	+0.18	0	---	4½
21	Hd.	EII	+0.145	+0.60	0	5.5	3½
22	Fn.	EII	+0.111	−0.10	0	6.5	3½
Feb. 1	Hd.	WII	+0.036	+1.54	0	5.8	3½
2	R.	WII	-----	−0.91	0	---	3½
Nov. 22	R.	WI	+0.110	+1.58	0	5.0	3
Dec. 11	Hd.	EI	+0.153	0.00	0	5.5	3½
13	R.	EI	+0.246	0.00	0	---	5
18	Hd.	WI	+0.200	−0.98	0	6.0	3½
Mean	1913.50		+0.147	+0.21			
	1913.45						
Corr			−0.081	+0.13			

Bradley 744

			h m s	° ′ ″			
1911			5 14 29.498	+2 30 11.44	0	5.5	4
Dec. 5	Hd.	WII					
6	Hd.	WII	29.544	11.51	0	5.8	--
19	Hd.	EII	29.504	11.32	0	5.5	--
25	R.	EII	29.556	10.14	0	5.5	4
1915							
Nov. 17	Fn.	WI	29.509	10.26	0	5.5	2
24	Wy.	EI	29.527	10.70	0	5.5	2½
27	Wy.	EI	29.511	10.95	I	5.4	2½
Dec. 6	Hd.	WI	29.527	10.62	0	6.0	3
Mean	1913.93		5 14 29.522	+2 30 10.87			
Corr			−0.081	−0.18			

Lalande 9986

			h m s	° ′ ″			
1912			5 14 50.323	−18 13 31.25	0	6.1	2
Nov. 18	Fn.	EII					
20	Fn.	EII	50.347	32.04	0	6.5	3
Dec. 27	Fn.	WII	50.347	31.88	0	---	4
28	Hd.	WII	50.372	32.08	0	6.5	3
1913							
Nov. 4	Fn.	EI	50.406	31.45	0	6.5	3½
5	R.	EI	50.422	31.80	0	6.0	3
10	Hd.	WI	50.338	31.65	0	6.0	3½
17	Hd.	WI	50.359	31.59	0	6.0	3½
Mean	1913.40		5 14 50.364	−18 13 31.72			
Corr			−0.081	−0.09			

Weisse$_1$ V 260

			h m s	° ′ ″			
1912			5 15 25.296	+10 47 58.56	0	7.5	1½
Jan. 20	R.	WII					
21	Hd.	WII	25.262	58.35	0	7.0	2
24	R.	EII	25.308	58.28	0	7.5	2
27	R.	EII	25.270	58.66	0	7.5	3
1915							
Nov. 7	Hd.	EI	25.279	58.45	0	7.0	2
15	Wy.	WI	25.295	58.46	0	7.5	3
16	Hd.	WI	25.280	57.97	0	7.5	2½
22	Hd.	EI	25.283	57.94	0	7.0	2
Mean	1913.97		5 15 25.284	+10 47 58.33			
Corr			−0.081	−0.21			

λ Leporis

			h m s	° ′ ″			
1912			5 15 25.781	−13 16 8.92	I	4.4	2
Nov. 12	R.	EII					
16	R.	EII	25.757	9.34	I	3.9	2½
29	Fn.	WII	25.846	9.13	0	---	4
Dec. 3	R.	WII	25.777	9.21	I	4.4	1½
1913							
Nov. 20	Hd.	WI	25.688	9.01	I	4.9	3½
21	Fn.	WI	25.740	8.43	0	5.0	2
Dec. 3	R.	EI	25.754	9.20	I	3.9	2
5	R.	EI	25.791	9.14	I	4.9	4
Mean	1913.40		5 15 25.767	−13 16 9.05			
Corr			−0.081	−0.12			

B. D.+70° 351

				h	m	s	°	′	″				
1912													
Oct.	25	Fn.	EII	5	16	41.12	+70	8	44.38	0	7.0	2	
	26	R.	EII			41.11			45.20	0	7.0	3	
Nov.	4	R.	WII			41.10			44.29	0	7.0	5	
	9	Fn.	WII			41.09			44.47	0	6.8	1½	
1914													
Jan.	13	Wy.	EI			41.13			44.85	0	7.0	3	
	21	Hd.	WI			41.17			44.75	0	7.0	3	
	26	R.	WI			41.18			44.71	0	7.5	3	
Feb.	7	Hd.	EI			41.15			44.61	0	7.5	2	
	12	Fn.	EI			41.01			44.08	0	7.5	2	
Mean		1913.53		5	16	41.118	+70	8	44.59				
Corr						−0.081			−0.34				

Pulkowa 1855, 824

				h	m	s	°	′	″				
1912													
Jan.	22	Hd.	WII	5	16	49.542	+8	20	23.83	0	6.0	--	
Feb.	2	Hd.	WII			49.549			24.41	0	6.5	2	
	9	Hd.	EII			49.552			24.26	0	5.7	3	
	10	R.	EII			49.520			24.43	0	---	2	
1915													
Dec.	2	Hd.	EI			49.539			23.32	0	6.5	3	
	4	Fn.	EI			49.549			23.91	0	6.0	2	
	8	Wy.	WI			49.529			24.10	0	6.5	3	
	9	Fn.	WI			49.510			24.06	0	6.5	2½	
Mean		1914.01		5	16	49.536	+8	20	24.04				
Corr						−0.081			−0.20				

σ Aurigæ

				h	m	s	°	′	″				
1913													
Jan.	4	Hd.	WII	5	18	32.085	+37	18	7.21	0	6.0	3	
	8	Fn.	WII			32.066			6.89	0	6.0	3	
	14	R.	WII			32.113			7.47	I	4.4	1½	
	18	Hd.	EII			32.027			7.64	I	4.9	2	
	19	Hd.	EII			32.100			7.26	0	6.0	2	
1914													
Feb.	16	Fn.	WI			32.094			7.09	0	5.5	1½	
	17	Wy.	WI			32.081			7.95	0	6.0	3	
	21	Hd.	WI			32.096			7.53	0	6.0	2	
	25	Hd.	EI			32.144			7.69	0	6.5	2	
	26	Fn.	EI			32.112			7.56	0	6.0	1½	
Mean		1913.59		5	18	32.092	+37	18	7.43				
Corr						−0.081			−0.26				

Lacaille 1823

				h	m	s	°	′	″				
1911													
Nov.	18	R.	EII	5	19	35.016	−26	47	24.90	0	6.5	2	
	21	Fn.	EII			34.907			24.76	0	6.6	3	
	30	R.	WII			34.882			25.70	0	6.5	4	
Dec.	5	Hd.	WII			34.962			24.50	0	6.5	4	
1915													
Oct.	25	Wy.	WI			35.056			24.15	0	6.5	4	
	27	Fn.	WI			35.009			25.84	0	7.0	3½	
Nov.	3	Wy.	EI			35.030			25.11	0	6.5	3	
	5	Fn.	EI			35.001			24.73	0	7.0	3	
Mean		1913.87		5	19	34.983	−26	47	24.96				
Corr						−0.081			−0.01				

γ Orionis

				h	m	s	°	′	″				
				5	20	18.191	+6	16	7.54				
1912													
Dec.	28	Hd.	WII			+0.026			+0.65	II	2.1	3	
	30	Fn.	WII			+0.030			+0.01	II	0.8	3½	
1913													
Jan.	21	Hd.	EII			+0.036			+0.58	II	2.1	3	
	22	Fn.	EII			+0.013			+0.45	II	1.8	1½	
1915													
Jan.	4	Hd.	EI			+0.019			+0.28	II	2.1	2	
	5	Wy.	EI			+0.016			−0.31	II	1.6	2½	
1915						s			″				
Jan.	10	Wy.	WI			+0.031			+0.08	II	1.6	2½	
	13	An.	WI			+0.027			−0.39	II	---	2	
Feb.	10	Hd.	EI			-----			−0.63	I	---	--	R.
	17	Fn.–Wy.	EI			-----			−0.98	II	---	2½	R.
	18	Hd.–An.	EI			-----			−0.27	II	1.1	2½	
	19	Fn.–Wy.	EI			-----			+0.64	I	1.9	2½	
	20	An.–Hd.	WI			-----			−1.62	II	---	2	R.
	21	An.–Hd.	WI			-----			+0.11	II	2.6	3	
	28	Wy.–Fn.	WI			-----			−0.74	0	---	3	R.
Mar.	1	Wy.–Fn.	WI			-----			0.00	II	3.1	3	
	2	Wy.–Fn.	WI			-----			−1.18	I	---	3½	R.
Mean		1914.02				+0.025			+0.15				
		1914.40											
Corr						−0.081			−0.19				

β Tauri

				h	m	s	°	′	″				
				5	20	36.108	+28	31	55.07				
1911						s			″				
June	*26*	*Hd.*	*WII*			*+0.044*			----			--	
	29	*Hd.*	*WII*			*−0.016*	*−0.93*		*−0.90*		*0*	---	--
July	*4*	*R.*	*EII*			*+0.171*	*−0.06*		*−0.07*		*0*	---	--
	9	*Fn.*	*WII*			*+0.062*	*−0.95*		*−0.93*		*0*	---	--
	20	*Hd.*	*EII*			-----	*+0.05*		*+0.06*		*0*	---	--
	21	*R.*	*EII*			*−0.018*	*+0.04*		*+0.05*		*0*	---	--
	23	*Fn.*	*EII*			*−0.015*	*+0.13*		*+0.12*		*0*	---	--
	24	*Hd.*	*EII*			*+0.040*	*−0.45*		*−0.44*		*0*	---	--
	25	*R.*	*WII*			*+0.025*	*−1.12*		*−1.13*		*0*	---	--
	26	*Fn.*	*WII*			*+0.008*	*+0.12*		*+0.12*		*0*	---	--
	27	*Hd.*	*WII*			*+0.072*	*−0.40*		*−0.40*		*0*	---	*3*
Aug.	*9*	*R.*	*EII*			*+0.028*	*+0.09*		*+0.05*		*0*	---	--
	10	*Fn.*	*EII*			-----	*+0.46*		*+0.40*		*0*	---	--
	15	*Fn.*	*EII*			*+0.090*	*−0.65*		*−0.66*		*0*	---	--
	18	*R.*	*EII*			*+0.023*	*−0.26*		*−0.29*		*0*	---	--
	20	*Fn.*	*EII*			*+0.010*	*+0.16*		*+0.12*		*0*	---	--
	21	*R.*	*EII*			*+0.062*	*+0.41*		*+0.37*		*0*	---	*4*
	22	*Fn.*	*WII*			-----	*+0.13*		*+0.11*		*0*	---	--
Sept.	*1*	*R.*	*WII*			*+0.030*	*−0.03*		*−0.03*		*0*	---	--
	6	*Fn.*	*WII*			*+0.008*	*−0.07*		*−0.07*		*0*	---	*2*
Dec.	7	Hd.	WII			+0.023			----		II	1.1	--
	19	Hd.	EII			−0.004			----		II	1.1	2
	27	R.	EII			+0.016			----		II	---	--
1912													
Jan.	9	R.	EII			+0.042			----		II	2.1	2½
	10	Hd.	EII			+0.011			----		II	2.1	2
	15	Fn.	WII			−0.026			+0.68		II	2.3	2
	16	R.	WII			+0.011			----		II	2.6	1½
	19	Fn.	WII			−0.003			----		II	1.7	2
	20	R.	WII			−0.006			+0.18		I	2.4	2½
	21	Hd.	WII			+0.026			+0.12		II	1.6	2
	24	R.	EII			−0.020			----		II	1.6	1½
	27	R.	EII			+0.013			+0.98		II	2.1	2½
Feb.	1	Fn.	EII			+0.028			−0.57		I	---	2
	13	Hd.	EII			−0.027			−0.23		II	1.6	2
	14	Fn.	EII			−0.022			+0.25		II	2.6	2
	16	Hd.	EII			+0.015			−0.02		II	---	2
	17	R.	EII			+0.011			−0.14		I	2.4	3
	23	Hd.	WII			+0.016			+0.04		II	1.6	3
	27	Hd.	WII			+0.031			−0.48		II	1.6	3
	28	R.	WII			+0.001			+0.28		II	1.6	2
Mar.	1	Hd.	WII			+0.007			+0.32		II	1.6	2
	2	R.	WII			+0.023			−0.43		II	2.6	2
July	*26*	*Fn.*	*WII*			*+0.024*	*−1.16*		*−1.16*		*0*	---	*2½*
	29	*R.*	*WII*			*+0.047*	*−0.52*		*−0.51*		*0*	---	--
Aug.	*1*	*Fn.*	*WII*			-----	*+0.08*		*+0.08*		*0*	---	--
	2	*R.*	*EII*			*−0.043*	*+0.28*		*+0.29*		*0*	---	*3½*
	4	*Fn.*	*EII*			*−0.044*	*+0.72*		*+0.72*		*0*	---	*2½*
	18	*Fn.*	*WII*			-----	*+0.15*		*+0.11*		*0*	---	*2½*
	20	*Fn.*	*WII*			-----	*−0.54*		*−0.55*		*0*	---	*2½*
	22	*Fn.*	*WII*			*+0.010*	*+0.03*		*+0.02*		*0*	---	*3*
Nov.	16	R.	EII			+0.066			----		II	1.6	2
	20	Fn.	EII			+0.004			----		II	1.7	2
Dec.	20	Fn.	EII			+0.001			+0.05		I	---	2
1913													
Jan.	15	Fn.	WII			−0.004			+0.61		I	---	3
	25	Hd.	EII			+0.008			−0.32		II	2.1	2

				s	″	″			
1913									
Jan.	26	Hd.	EII	−0.001		−0.14	II	2.1	2
	28	R.	EII	+0.059		−0.27	II	2.6	2
	30	Hd.	WII	−0.001		0.00	II	2.6	2
Feb.	1	Hd.	WII	+0.033		----	II	1.6	2
	4	Hd.	WII	+0.019		−0.77	II	1.3	3
	5	Fn.	WII	−0.031		+0.16	0	---	1½
	7	Fn.	WII	−0.016		+0.42	I	1.9	2½
July	*7*	*Fn.*	*WII*	*+0.197*	*−0.25*	*−0.21*	*0*	---	*3½*
	9	*Fn.*	*WII*	*+0.047*	*+0.15*	*+0.17*	*0*	---	*4*
	10	*Hd.*	*WII*	*+0.005*	*−0.20*	*−0.18*	*0*	---	*3*
Nov.	4	Fn.	EI	+0.016		+0.02	II	1.1	2
	5	R.	EI	+0.022		−0.42	II	1.1	2
	10	Hd.	WI	+0.030		+0.36	II	1.6	3
	17	Hd.	WI	+0.010		+0.25	II	1.6	2½
	20	Hd.	WI	+0.017		+0.14	II	2.6	2
	21	Fn.	WI	+0.059		+0.93	I	1.9	1½
	22	R.	WI	+0.043		+0.63	II	1.6	2
Dec.	3	R.	EI	−0.035		−0.37	II	1.1	2
	5	R.	EI	+0.004		−0.41	II	1.1	2
	8	Hd.	EI	+0.024		+0.01	II	1.6	3
	9	Fn.	EI	+0.005		−0.18	I	1.9	2
	11	Hd.	EI	+0.024		+0.18	II	1.1	2½
	12	Fn.	EI	+0.004		−0.14	I	---	3½
	13	R.	EI	0.000		−0.54	II	1.1	2½
	18	Hd.	WI	+0.011		+0.30	II	2.1	2
	27	Wy.	WI	+0.018		+0.44	I	1.9	2
	30	Wy.	WI	+0.076		----	I	1.9	--
1914									
Jan.	6	Fn.	EI	−0.019		−0.29	I	---	2
	27	Fn.	WI	+0.036		----	I	---	3
Feb.	2	Fn.	WI	+0.042		+0.44	I	1.9	2½
	4	Hd.	EI	+0.009		----	II	2.6	2
	14	Hd.	WI	+0.010		+0.24	0	---	2
Mar.	3	Wy	WI	0.000		----	I	---	3
	4	Hd.	WI	+0.022		−0.66	I	2.9	3
	8	Hd.	EI	+0.027		----	II	1.6	2
June	*2*	*Fn.*	*EI*	*+0.113*	*−0.47*	*−0.43*	*0*	---	*3½*
	3	*Wy.*	*EI*	*+0.131*	*+0.09*	*+0.10*	*0*	---	*4*
	22	*Hd.*	*WI*	*−0.002*	*+0.10*	*+0.14*	*0*	---	*3*
	23	*Wy.*	*WI*	*+0.005*	*−1.26*	*−1.23*	*0*	---	*3½*
	29	*Hd.*	*WI*	*−0.033*	*−0.07*	*−0.04*	*0*	---	*3*
July	*2*	*Hd.*	*WI*	*−0.039*	*−0.70*	*−0.67*	*0*	---	*3*
	19	*Fn.*	*EI*	*+0.035*	*−0.52*	*−0.50*	*0*	---	*3½*
	20	*Hd.*	*EI*	*−0.026*	*−0.92*	*−0.92*	*0*	---	*3*
	21	*Fn.*	*EI*	*−0.007*	*+0.35*	*+0.37*	*0*	---	*3½*
	26	*Fn.*	*EI*	*+0.016*	*−0.70*	*−0.70*	*0*	---	*3½*
	28	*Fn.*	*EI*	*−0.059*	*+1.28*	*+1.29*	*0*	---	*3*
	30	*Fn.*	*EI*	*−0.066*	*−0.12*	*−0.12*	*0*	---	*3*
Aug.	*2*	*Fn.*	*EI*	*+0.005*	*+0.32*	*+0.34*	*0*	---	*3½*
	6	*Hd.*	*EI*	*+0.056*	*+0.24*	*+0.21*	*0*	---	*3*
	7	*Wy.*	*EI*	*−0.003*	*+0.51*	*+0.51*	*0*	---	*3½*
	10	*Wy.*	*WI*	-----	*0.00.*	*−0.03*	*I*	---	*3½*
	12	*Hd.*	*WI*	*−0.042*	*+0.02*	*+0.03*	*0*	---	*2*
	13	*Wy.*	*WI*	*+0.033*	*−0.06*	*−0.09*	*0*	---	*3½*
	16	*Fn.*	*WI*	*+0.057*	*−0.19*	*−0.21*	*0*	---	*3*
	17	*Wy.*	*WI*	*−0.012*	*−0.21*	*−0.24*	*0*	---	*3½*
	21	*An.*	*WI*	*−0.035*	*+0.19*	*+0.19*	*I*	---	*3*
Sept.	*9*	*An.*	*EI*	*−0.013*	----	----	*I*	---	*3½*
	14	*An.*	*EI*	*+0.011*	*+1.14*	*+1.15*	*II*	---	*3*
1915									
Jan.	16	An.	WI	−0.034		----	0	---	3
	21	Wy.	EI	+0.042		----	II	1.6	3½
	25	Fn.	EI	+0.004		----	I	---	--
May	*27*	*Wy.*	*WI*	*+0.113*	*+0.10*	*+0.20*	*0*	---	*4*
	31	*Wy.*	*WI*	*+0.057*	*−0.24*	*−0.16*	*0*	---	*4*
June	*8*	*Hd.*	*EI*	*−0.009*	*−1.86*	*−1.82*	*0*	---	*3*
	18	*Wy.*	*WI*	*+0.073*	*+0.28*	*+0.31*	*0*	---	*3½*
	24	*Wy.*	*EI*	*+0.035*	----	----	*0*	---	*3*
	27	*Wy.*	*EI*	*+0.026*	*+0.42*	*+0.47*	*0*	---	*3½*
	28	*Hd.*	*EI*	*+0.004*	*−0.12*	*−0.10*	*0*	---	*3*
July	*5*	*Fn.*	*WI*	*+0.033*	*+0.02*	*+0.05*	*0*	---	*3½*
	8	*Fn.*	*WI*	*−0.040*	*+0.39*	*+0.41*	*0*	---	*3½*
	13	*An.*	*WI*	*+0.019*	*+0.44*	*+0.45*	*0*	---	*3½*
	20	*An.*	*EI*	*+0.007*	*−0.45*	*−0.42*	*0*	---	*3½*
	23	*An.*	*EI*	*−0.043*	*−0.21*	*−0.19*	*0*	---	*3*
	25	*Fn.*	*EI*	*+0.130*	*−0.66*	*−0.67*	*0*	---	*3½*
	29	*Hd.*	*EI*	-----	*−0.32*	*−0.33*	*0*	---	*3*
	30	*An.*	*EI*	*+0.001*	*0.00*	*+0.01*	*0*	---	*3½*

				s	″	″			
1915									
Aug.	*3*	*Hd.*	*EI*	-----	*−0.27*	*−0.27*	*0*	---	*3*
	5	*An.*	*EI*	-----	*+0.14*	*+0.16*	*0*	---	*3*
	12	*An.*	*EI*	*+0.039*	*+0.35*	*+0.33*	*0*	---	*3*
	13	*Wy.*	*EI*	*+0.001*	*+0.30*	*+0.28*	*0*	---	*3*
Sept.	22	Wy.	EI	+0.006		+0.01	II	1.1	2½
	24	Hd.	EI	−0.012		+0.49	II	2.1	2
	28	Hd.	EI	−0.001		+0.13	II	1.6	2
	29	Fn.	EI	+0.019		−0.06	I	1.9	2½
Oct.	9	Hd.	WI	0.000		−0.09	II	2.1	2
	11	Hd.	WI	−0.010		−0.15	II	2.1	2
Nov.	9	Wy.	WI	−0.012		−0.52	II	1.6	2
	10	Hd.	WI	+0.020		----	II	2.1	2
	11	Fn.	WI	−0.001		----	0	---	3
	15	Wy.	WI	+0.011		----	II	1.6	2½
	16	Hd.	WI	−0.023		----	II	2.1	2
	17	Fn.	WI	+0.002		----	I	2.4	2
	22	Hd.	EI	+0.025		----	II	1.1	2
	23	Fn.	EI	+0.010		----	I	2.4	2
	24	Wy.	EI	+0.032		−0.25	II	2.1	2
	27	Wy.	EI	−0.012		+0.13	II	2.1	2
	29	Wy.	EI	+0.009		+0.09	II	1.6	2
	30	Hd.	EI	+0.048		----	II	1.6	2
Dec.	2	Hd.	EI	−0.008		−0.31	I	2.9	2½
	6	Hd.	WI	−0.018		−0.47	II	2.1	2
	8	Wy.	WI	+0.037		−0.24	II	2.1	2½
	9	Fn.	WI	−0.023		−0.69	I	1.9	2
	10	Hd.	WI	+0.015		----	II	1.6	2
	22	Wy.	WI	−0.011		----	II	2.1	2½
1916									
Jan.	8	Hd.	EI	+0.033		−0.30	II	2.1	3
	19	Fn.	EI	+0.058		+0.23	0	---	2
	24	Hd.	EI	+0.024		+0.27	II	2.1	2
	25	Fn.	EI	+0.019		−0.15	I	2.4	2½
	26	Wy.	EI	−0.007		+0.46	I	---	2½
	27	Wy.	EI	+0.040		----	0	---	3½
Feb.	3	Hd.	EI	+0.025		+0.13	II	1.6	2
	10	Fn.	WI	+0.062		+1.53	I	2.4	2
	15	Fn.	WI	−0.014		+0.67	0	---	2
Mar.	4	Fn.	WI	+0.023		+0.41	I	1.9	2
	16	*Hd.*	*WI*	*−0.004*	----	----	*I*	---	*2*
June	*22*	*Hd.*	*WI*	*+0.009*	*−0.32*	*−0.27*	*0*	---	*3½*
July	*2*	*Wy.*	*WI*	*+0.007*	*−0.92*	*−0.88*	*0*	---	*3½*
	5	*Wy.*	*EI*	*+0.011*	*−0.53*	*−0.49*	*0*	---	*4*
	6	*Fn.*	*EI*	*+0.001*	*−0.70*	*−0.67*	*0*	---	*3½*
	12	*Hd.*	*EI*	*−0.047*	*−1.55*	*−1.54*	*0*	---	*3*
Aug.	*21*	*Fn.*	*EI*	*+0.071*	*−0.68*	*−0.71*	*0*	---	*3½*
	24	*Fn.*	*WI*	*+0.040*	*−0.72*	*−0.73*	*0*	---	*2*
	31	*Fn.*	*WI*	*−0.039*	*−0.57*	*−0.58*	*0*	---	*2½*
1917									
Jan.	11	Wy.	EI	−0.008		−0.11	I	2.4	2½
	19	Hd.	EI	+0.029		+0.32	II	2.1	2
Mar.	6	Fn.	WI	−0.001		+0.21	I	2.4	2
	9	*Fn.*	*WI*	*+0.014*	----	----	*I*	---	*3*
	12	*Hd.*	*EI*	*+0.001*	*−0.56*	*−0.55*	*II*	---	*2½*
Apr.	*10*	*Fn.*	*WI*	*−0.043*	*−1.04*	*−1.03*	*0*	---	*3½*
	16	*Fn.*	*WI*	*+0.052*	*−1.26*	*−1.24*	*0*	---	*3½*
	17	*Wy.*	*WI*	*+0.049*	*+0.25*	*+0.26*	*0*	---	*4*
	23	*Wy.*	*EI*	*−0.071*	*−0.75*	*−0.72*	*0*	---	*4*
May	*1*	*Fn.*	*EI*	*+0.023*	*−0.35*	*−0.33*	*0*	---	*3½*
	3	*Hd.*	*EI*	*−0.077*	*+0.22*	*+0.26*	*0*	---	*3½*
	15	*Hd.*	*WI*	*+0.012*	*+0.09*	*+0.11*	*0*	---	*3½*
	18	*Hd.*	*WI*	*+0.090*	*+0.08*	*+0.10*	*0*	---	*3½*
June	*20*	*Wy.*	*WII*	*+0.028*	*−0.90*	*−0.87*	*0*	---	*3½*
July	*1*	*Hd.*	*EII*	-----	*−0.71*	*−0.70*	*0*	---	*3*
	16	*Wy.*	*EII*	-----	*−0.48*	*−0.47*	*0*	---	*3½*
	29	*Wy.*	*EII*	*−0.021*	*−0.94*	*−0.94*	*0*	---	*3½*
	30	*Fn.*	*EII*	*−0.027*	*−0.71*	*−0.70*	*0*	---	*3½*
Aug.	*12*	*Fn.*	*WII*	*+0.044*	*+0.43*	*+0.42*	*0*	---	*3*
	13	*Hd.*	*WII*	*+0.033*	*−0.57*	*−0.58*	*0*	---	*3*
	17	*Wy.*	*WII*	*+0.046*	*−0.67*	*−0.67*	*I*	---	*3*
	19	*Fn.*	*WII*	*0.000*	*−0.03*	*−0.06*	*0*	---	*3½*
Sept.	*10*	*Fn.*	*EII*	*−0.006*	*+0.32*	*+0.33*	*I*	---	*3*
1918									
Jan.	10	Fn.	EII	+0.012		−0.15	I	2.4	2½
	17	Fn.	EII	+0.035		----	0	---	2½
	29	Wy.	WII	−0.028		−0.30	II	1.6	2
Feb.	11	Wy.	WII	+0.018		−0.03	II	2.6	2
	12	Fn.	WII	−0.013		−0.45	I	1.9	3

				s	"	"			
1918									
Feb.	15	Fn.	WII	+0.026		+0.47	I	1.9	3
	18	Fn.	EII	+0.061		−0.23	I	1.9	2
	21	Fn.	EII	+0.044		−1.16	I	---	2
Mar.	7	Fn.	EII	−0.003		−0.03	I	2.4	1½
	15	*Fn.*	*WII*	*+0.013*	*−1.79*	*−1.78*	*I*	---	*2*
	25	*Fn.*	*WII*	*−0.021*	*−0.59*	*−0.59*	*0*	---	*2½*
	26	*Wy.*	*WII*	*+0.026*	*−0.28*	*−0.26*	*0*	---	*3*
	28	*Fn.*	*WII*	*−0.011*	*−0.95*	*−0.94*	*0*	---	*3*
Apr.	*2*	*Fn.*	*EII*	*+0.004*	*+0.26*	*+0.29*	*0*	---	*3½*
June	*23*	*Wy.*	*WII*	*+0.021*	*−0.93*	*−0.87*	*0*	---	*3½*
	27	*Hd.*	*WII*	*−0.012*	*−0.33*	*−0.30*	*0*	---	*3½*
July	*1*	*Hd.*	*WII*	*+0.016*	*−1.41*	*−1.38*	*0*	---	*3½*
	10	*Wy.*	*EII*	*+0.032*	*−0.81*	*−0.78*	*0*	---	*3½*
	14	*Wy.*	*EII*	*−0.064*	*−0.05*	*−0.02*	*0*	---	*3½*
	15	*Hd.*	*EII*	*+0.008*	*−0.46*	*−0.45*	*0*	---	*3½*
	17	*Wy.*	*EII*	*+0.057*	*−0.13*	*−0.11*	*0*	---	*4*
	24	*Fn.*	*EII*	*+0.126*	*+0.07*	*+0.08*	*0*	---	*3½*
Aug.	*1*	*Hd.*	*WII*	*+0.025*	*+0.19*	*+0.18*	*0*	---	*3*
	7	*Wy.*	*WII*	*−0.008*	*−0.83*	*−0.83*	*0*	---	*3½*
	8	*Hd.*	*WII*	*+0.077*	*+0.07*	*+0.07*	*0*	---	*3½*
	11	*Fn.*	*WII*	*−0.004*	*−0.31*	*−0.30*	*0*	---	*3½*
	12	*Wy.*	*WII*	*−0.038*	*−0.01*	*−0.01*	*0*	---	*3*
	14	*Fn.*	*WII*	*+0.022*	*+0.35*	*+0.35*	*0*	---	*3*
	15	*Hd.*	*WII*	*+0.031*	*+0.10*	*+0.08*	*I*	---	*3½*
Mean		1914.56		+0.012		+0.02			
		1914.66							
Corr				−0.081		−0.25			

17 Camelopardalis

				h	m	s	°	'	"			
				5	21	40.029	+62	59	35.07			
1912												
Nov.	22	Fn.	EII			+0.01			+0.80	0	5.5	2
Dec.	9	Fn.	WII			−0.06			+0.73	0	5.8	2
	14	R.	EII			−0.10			+0.82	0	---	2
	27	Fn.	WII			−0.06			+0.54	0	6.2	3½
1914												
Jan.	27	Fn.	WI			−0.04			+0.82	0	6.0	3
	29	R.	WI			0.00			+0.96	0	6.0	3
Feb.	9	Fn.	EI			−0.04			+0.51	0	5.5	2½
	11	Hd.	EI			−0.01			+0.25	0	6.0	2
Mean		1913.52				−0.038			+0.68			
Corr						−0.081			−0.33			

Bradley 767

				h	m	s	°	'	"			
1911												
Nov.	22	Hd.	EII	5	21	55.029	+17	53	7.74	0	6.0	1
Dec.	6	Hd.	WII			55.068			7.74	0	6.0	1
	7	Hd.	WII			55.051			7.46	0	5.5	--
	27	R.	EII			54.997			7.77	0	6.0	2
1915												
Oct.	12	Fn.	WI			55.071			7.50	0	6.5	2
	21	Fn.	WI			55.054			7.58	0	6.5	3
Nov.	1	Hd.	EI			55.036			7.57	0	6.0	3
	7	Hd.	EI			55.013			7.31	0	6.0	2
Mean		1913.88		5	21	55.040	+17	53	7.58			
Corr						−0.081			−0.23			

Piazzi V 102

				h	m	s	°	'	"			
1912												
Oct.	9	R.	WII	5	22	53.232	−11	58	34.27	0	7.0	2
Nov.	5	Fn.	WII			53.219			35.07	0	7.4	3
	12	R.	EII			53.227			34.17	0	6.5	2
	16	R.	EII			53.249			34.50	0	7.0	3
1914												
Jan.	21	Hd.	WI			53.263			35.06	0	6.5	3
	26	R.	WI			53.196			33.81	0	7.5	3½
Feb.	4	Hd.	EI			53.243			33.49	0	6.5	3
	7	Hd.	EI			53.223			34.39	0	7.0	3
Mean		1913.46		5	22	53.232	−11	58	34.35			
Corr						−0.081			−0.13			

Lalande 10313

				h	m	s	°	'	"			
1912												
Nov.	9	Fn.	WII	5	23	46.459	−21	27	5.27	0	6.3	3
	18	Fn.	EII			46.404			4.59	0	6.4	2½
	20	Fn.	EII			46.393			4.80	0	6.0	3½
Dec.	3	R.	WII			46.489			4.84	0	6.5	2½
1914												
Feb.	15	Fn.	WI			46.486			4.65	0	6.5	3
	16	Fn.	WI			46.518			5.41	0	7.0	3
	26	Fn.	EI			46.487			4.96	0	6.5	3
Mar.	7	Hd.	EI			46.508			4.09	0	6.5	3
Mean		1913.52		5	23	46.468	−21	27	4.83			
Corr						−0.081			−0.07			

Lalande 10288

				h	m	s	°	'	"			
1912												
Jan.	9	R.	EII	5	23	49.254	−0	3	11.07	0	7.0	5
	10	Hd.	EII			49.247			11.99	0	7.0	3
	16	R.	WII			49.218			11.88	0	7.5	2½
	19	Fn.	WII			49.243			12.38	0	7.2	2½
1915												
Nov.	10	Hd.	WI			49.215			12.03	0	6.5	2
	15	Wy.	WI			49.253			11.49	0	7.0	3
	22	Hd.	EI			49.224			11.98	0	6.5	2
	23	Fn.	EI			49.212			11.81	0	7.0	2
Mean		1913.96		5	23	49.233	−0	3	11.83			
Corr						−0.081			−0.18			

Weisse$_2$ V 590

				h	m	s	°	'	"			
1912												
Jan.	22	Hd.	WII	5	23	57.513	+29	6	55.30	0	7.0	3
Feb.	2	Hd.	WII			57.494			55.35	0	7.0	2
	9	Hd.	EII			57.478			55.06	0	7.0	3
	10	R.	EII			57.523			55.28	0	---	1
1915												
Nov.	16	Hd.	WI			57.487			55.08	0	6.5	3
	17	Fn.	WI			57.507			55.22	0	6.5	1½
	27	Wy.	EI			57.542			55.15	0	7.0	2
	29	Wy.	EI			57.540			54.30	0	6.5	2
Mean		1913.99		5	23	57.510	+29	6	55.09			
Corr						−0.081			−0.25			

β Leporis

				h	m	s	°	'	"				
				5	24	23.348	−20	49	50.58				
1913													
Jan.	4	Hd.	WII			+0.010			−1.26	I	2.9	3½	
	14	R.	WII			+0.043			−0.39	I	3.4	1½	
	18	Hd.	EII			+0.052			−0.51	I	2.9	3	
	19	Hd.	EII			+0.022			−0.57	I	---	3	
1915													
Jan.	4	Hd.	EI			+0.002			−0.54	I	---	3	
	5	Wy.	EI			−0.021			−1.21	I	3.4	3½	
	10	Wy.	WI			+0.061			−1.49	I	3.4	2½	
	15	Fn.	WI			+0.078			−1.20	I	3.4	3½	
Feb.	10	Hd.	EI			-----			−2.33	I	---	2	R.
	17	Fn.–Wy.	EI			-----			−1.53	I	---	3	R.
	18	Hd.–An.	EI			-----			−0.63	II	3.1	3	
	19	Fn.–Wy.	EI			-----			0.00	I	3.4	3	
	20	An.–Hd.	WI			-----			−3.10	I	---	3	R.
	21	An.–Hd.	WI			-----			−0.52	I	---	3	
Mar.	2	Wy.–Fn.	WI			-----			−2.25	I	---	3½	R.
	3	Wy.–Fn.	WI			-----			−1.73	0	---	3	R.
	3	Wy.–Fn.	WI			-----			−0.46	I	3.4	3	
Mean		1914.03				+0.031			−0.73				
		1914.40											
Corr						−0.081			−0.07				

Lalande 10224

				h	m	s	°	′	″			
1912												
Feb.	4	Fn.	WII	5	24	26.988	+41	23	32.38	0	---	2
	5	Fn.	WII			26.930			33.86	0	6.5	2
	6	Hd.	EII			26.951			32.12	0	5.5	2
	8	Fn.	EII			26.982			32.42	0	6.5	2½
1915												
Oct.	27	Fn.	WI			26.938			31.22	0	6.0	2½
	30	Fn.	EI			27.046			31.86	0	7.0	2½
Nov.	3	Wy.	EI			26.990			32.37	0	6.5	2
	9	Wy.	WI			26.955			32.48	0	6.0	2
Mean		1913.97		5	24	26.972	+41	23	32.34			
Corr						−0.081			−0.27			

Cape 1880, 2445

				h	m	s	°	′	″			
1911												
Nov.	18	R.	EII	5	25	39.341	−30	11	17.67	0	7.0	3
	21	Fn.	EII			39.310			17.53	0	6.9	4
	30	R.	WII			39.337			18.25	0	6.5	5
Dec.	5	Hd.	WII			39.355			17.88	0	6.5	--
1915												
Nov.	30	Hd.	EI			39.299			17.34	0	7.5	4
Dec.	2	Hd.	EI			39.434			18.65	0	8.0	3½
	4	Fn.	EI			39.369			17.06	0	7.5	3½
	6	Hd.	WI			39.401			17.12	0	7.0	3
	8	Wy.	WI			39.255			17.29	0	7.5	3½
Mean		1914.14		5	25	39.345	−30	11	17.64			
Corr						−0.081			+0.03			

χ Aurigæ

				h	m	s	°	′	″			
				5	26	52.147	+32	7	34.29			
1912												
Dec.	19	Hd.	EII			−0.010			+0.76	I	4.4	2
	20	Fn.	EII			−0.018			−0.02	0	---	1½
	28	Hd.	WII			−0.001			+0.68	I	4.9	2
	30	Fn.	WII			−0.011			+0.95	0	5.2	2
1914												
Jan.	29	R.	WI			+0.011			−0.01	0	---	4
Feb.	2	Fn.	WI			−0.017			+0.48	0	5.0	2½
	4	Hd.	EI			−0.015			+0.28	0	---	2
	7	Hd.	EI			−0.012			+0.74	0	5.5	3
1915												
Jan.	25	Fn.	EI			+0.042			----	0	5.5	2½
1916												
Jan.	24	Hd.	EI			−0.010			----	I	4.9	2
1917												
Jan.	11	Wy.	EI			+0.015			----	0	5.5	3
1918												
Mar.	1	Hd.	EII			+0.003			----	0	---	3
Mean		1914.55				−0.002			+0.48			
		1913.54										
Corr						−0.081			−0.25			

δ Orionis

				h	m	s	°	′	″			
				5	27	24.488	−0	21	54.46			
1911						s		″	″			
July	*27*	*Hd.*	*WII*			*+0.115*		*−0.60*	*−0.59*	*0*	---	*3½*
Aug.	*9*	*R.*	*EII*			*+0.161*		*+0.39*	*+0.23*	*0*	---	--
	10	*Fn.*	*EII*			-----		*+0.48*	*+0.28*	*0*	---	--
	15	*Fn.*	*EII*			*+0.015*		*−1.04*	*−1.07*	*0*	---	*2½*
	18	*R.*	*EII*			*+0.046*		*+0.03*	*−0.10*	*0*	---	--
	20	*Fn.*	*EII*			*+0.001*		*+0.51*	*+0.23*	*0*	---	--
	21	*R.*	*EII*			*+0.007*		*+0.02*	*−0.11*	*0*	---	--
Sept.	*6*	*Fn.*	*WII*			*+0.047*		*−0.69*	*−0.69*	*0*	---	--
Dec.	6	Hd.	WII			+0.044			----	II	2.6	--
1912												
Jan.	15	Fn.	WII			+0.047			+0.28	I	2.0	3
Feb.	1	Fn.	EII			−0.007			+0.07	I	---	2
	13	Hd.	EII			+0.021			−0.10	II	2.1	3
	14	R.	EII			+0.017			+0.57	I	2.9	2
	16	Hd.	EII			+0.034			−0.50	I	---	2
	17	R.	EII			+0.017			+0.03	I	2.4	4
	23	Hd.	WII			+0.055			+0.04	II	2.6	3
1912								″	″			
Feb.	27	Hd.	WII			+0.038			−1.00	II	2.6	3
	28	R.	WII			+0.036			----	II	2.1	2
Mar.	1	Hd.	WII			+0.015			+0.66	II	2.6	2
	2	R.	WII			+0.044			−0.39	I	2.4	2½
	17	*Hd.*	*EII*			-----		*−0.09*	*−0.03*	*0*	---	*2*
July	*26*	*Fn.*	*WII*			*+0.024*		*−1.78*	*−1.76*	*0*	---	*3*
Aug.	*4*	*Fn.*	*EII*			*+0.019*		*−0.27*	*−0.30*	*0*	---	*3*
	11	*Fn.*	*EII*			*+0.005*		*−0.14*	*−0.14*	*0*	---	*3½*
	18	*Fn.*	*WII*			-----		*−0.76*	*−0.92*	*0*	---	*3*
	20	*Fn.*	*WII*			-----		*−1.17*	*−1.20*	*0*	---	*3*
	22	*Fn.*	*WII*			*+0.032*		*−0.16*	*−0.22*	*0*	---	*3½*
	23	*R.*	*WII*			*+0.017*		*−0.21*	*−0.35*	*0*	---	*4*
1913												
Jan.	15	Fn.	WII			+0.100			−0.17	I	---	3½
	21	Hd.	EII			+0.054			+0.10	I	2.9	2
	22	Fn.	EII			−0.007			+0.10	I	2.3	2
	28	R.	EII			+0.004			−0.02	I	2.9	2
Feb.	5	Fn.	WII			+0.066			+0.67	0	---	--
	7	Fn.	WII			+0.029			−0.42	I	2.2	3
Nov.	4	Fn.	EI			+0.038			+1.05	I	1.9	2½
	5	R.	EI			+0.007			−0.94	II	2.1	2½
	10	Hd.	WI			+0.001			+0.01	I	---	3
	17	Hd.	WI			+0.030			+0.02	II	3.1	3
	20	Hd.	WI			+0.005			+0.11	II	2.6	3
	21	Fn.	WI			+0.003			+0.84	I	2.2	2
	22	R.	WI			+0.034			+0.69	II	1.6	2
Dec.	3	R.	EI			+0.049			+0.06	II	2.1	2
	5	R.	EI			+0.043			+0.57	II	2.6	2½
	8	Hd.	EI			+0.034			+0.07	II	2.6	3
	9	Fn.	EI			+0.049			+0.28	I	2.4	2½
	11	Hd.	EI			−0.004			−0.17	II	2.6	2
	13	R.	EI			+0.043			+0.05	II	2.1	3
	18	Hd.	WI			+0.013			+0.20	II	2.6	2
	27	Wy.	WI			+0.044			+0.39	I	2.4	2½
1914												
Jan.	5	R.	EI			+0.029			----	II	2.6	2
	6	Fn.	EI			+0.004			----	I	2.4	2½
	13	Wy.	EI			+0.032			+0.27	I	---	2
	21	Hd.	WI			+0.015			----	I	---	2
	26	R.	WI			+0.032			----	0	---	5
Feb.	25	Hd.	EI			+0.051			----	0	---	2
Mar.	4	Hd.	WI			+0.048			−0.23	I	3.4	3½
June	*22*	*Hd.*	*WI*			*−0.006*		----	----	*0*	---	*3½*
	29	*Hd.*	*WI*			*+0.013*		*−0.59*	*−0.44*	*0*	---	*3*
July	*2*	*Hd.*	*WI*			*+0.035*		*−0.54*	*−0.39*	*0*	---	*3*
	20	*Hd.*	*EI*			*−0.044*		*−0.62*	*−0.62*	*0*	---	*3*
	28	*Fn.*	*EI*			*−0.031*		*+0.23*	*+0.26*	*0*	---	*3½*
	30	*Fn.*	*EI*			*−0.004*		*+0.39*	*+0.40*	*0*	---	*3½*
Aug.	*6*	*Hd.*	*EI*			*+0.054*		*−0.24*	*−0.36*	*0*	---	*3*
	10	*Wy.*	*WI*			-----		*−0.95*	*−1.07*	*0*	---	*3½*
	12	*Hd.*	*WI*			*+0.031*		*−0.02*	*+0.01*	*0*	---	*2*
	13	*Wy.*	*WI*			*+0.051*		*−0.57*	*−0.72*	*0*	---	*3½*
	16	*Fn.*	*WI*			*−0.007*		*−0.34*	*−0.42*	*0*	---	*3*
	17	*Wy.*	*WI*			*+0.034*		*−0.78*	*−0.92*	*0*	---	*3½*
	19	*Fn.*	*WI*			*+0.015*		*−0.07*	*−0.15*	*0*	---	*3*
	21	*An.*	*WI*			*+0.021*		*−0.47*	*−0.47*	*0*	---	*3½*
Sept.	*1*	*Wy.*	*WI*			*−0.015*		*−0.68*	*−0.75*	*0*	---	*3*
	9	*An.*	*EI*			*+0.027*		----	----	*I*	---	*3½*
	14	*An.*	*EI*			*−0.026*		*−0.21*	*−0.19*	*I*	---	*3*
1915												
Jan.	16	An.	WI			+0.041			----	I	---	3
	21	Wy.	EI			+0.026			----	I	2.9	3½
	29	Wy.	EI			−0.002			−0.82	II	2.1	3
June	*27*	*Wy.*	*EI*			-----		*+1.32*	*+1.71*	*0*	---	*4*
	28	*Hd.*	*EI*			*+0.040*		*−1.00*	*−0.90*	*0*	---	*3*
July	*5*	*Fn.*	*WI*			*+0.019*		*−0.93*	*−0.79*	*0*	---	*3½*
	29	*Hd.*	*EI*			-----		*−0.49*	*−0.56*	*0*	---	*3*
	30	*An.*	*EI*			*−0.010*		----	----	*0*	---	*3½*
Aug.	*3*	*Hd.*	*EI*			-----		*−0.18*	*−0.17*	*0*	---	*3½*
	12	*An.*	*EI*			*−0.005*		*−0.06*	*−0.13*	*0*	---	*3½*
	13	*Wy.*	*EI*			*+0.008*		*+0.61*	*+0.54*	*0*	---	*3½*
Sept.	24	Hd.	EI			+0.019			−0.98	II	2.6	2
Oct.	12	Fn.	WI			+0.017			−0.08	0	---	2½
	21	Fn.	WI			+0.029			+0.24	I	2.9	3
	23	Wy.	WI			+0.034			----	I	---	3
	25	Wy.	WI			+0.042			−0.28	I	2.9	3
	28	Wy.	EI			+0.019			----	I	3.4	3
	29	Hd.	EI			+0.038			−0.19	I	2.9	3

				s	″	″				
1915										
Nov.	1	Hd.	EI	+0.056		−0.03	I	3.4	3	
	3	Wy.	EI	+0.026		----	II	2.6	2½	
	24	Wy.	EI	+0.008		----	II	2.6	2½	
	27	Wy.	EI	+0.013		−0.09	II	2.6	3	
	29	Wy.	EI	+0.032		+0.16	II	2.6	2½	
Dec.	10	Hd.	WI	+0.071		----	II	2.6	2	
	14	Wy.	WI	+0.046		----	I	3.4	3	
1916										
Jan.	8	Hd.	EI	+0.011		+0.10	I	2.4	3	
	26	Wy.	EI	+0.042		+0.52	I	---	3	
Feb.	3	Hd.	EI	+0.038		−0.55	I	2.9	3	
	10	Fn.	WI	+0.024		−0.36	I	3.4	2½	
	15	Fn.	WI	+0.050		−0.78	0	---	2½	
	21	Fn.	WI	+0.002		----	0	---	3	
Mar.	*11*	*Wy.*	*WI*	*+0.046*	----	----	*I*	---	2½	
	16	*Hd.*	*WI*	*−0.051*	----	----	*0*	---	*3*	
July	*5*	*Wy.*	*EI*	*+0.006*	----	----	*0*	---	*4*	
	12	*Hd.*	*EI*	*−0.007*	*−0.07*	*0.00*	*0*	---	3½	
	17	*Wy.*	*EI*	*+0.032*	*−0.36*	*−0.37*	*0*	---	3½	
Aug.	*20*	*Wy.*	*EI*	*−0.004*	*−0.39*	*−0.44*	*0*	---	3½	
	21	*Fn.*	*EI*	*+0.019*	*+0.46*	*+0.35*	*0*	---	3½	
	24	*Fn.*	*WI*	*+0.022*	*+0.11*	*+0.05*	*0*	---	2½	
	31	*Fn.*	*WI*	*−0.036*	*−1.00*	*−1.03*	*0*	---	2½	
Sept.	*10*	*Hd.*	*WI*	*+0.070*	*−0.21*	*−0.28*	*I*	---	3½	
1917										
Jan.	19	Hd.	EI	+0.030		+0.32	I	2.9	2	
Mar.	6	Fn.	WI	+0.023		−0.25	I	2.4	2	
	12	*Hd.*	*EI*	*+0.026*	*−0.46*	*−0.41*	*I*	---	2½	
Apr.	*10*	*Fn.*	*WI*	*+0.029*	*−1.88*	*−1.86*	*0*	---	3½	
	16	*Fn.*	*WI*	*−0.005*	*−1.03*	*−0.95*	*0*	---	3½	
	23	*Wy.*	*EI*	*−0.052*	*−0.14*	*0.00*	*0*	---	*4*	
July	*16*	*Wy.*	*EII*	-----	*−0.40*	*−0.35*	*0*	---	3½	
	29	*Wy.*	*EII*	*+0.022*	----	----	*0*	---	3½	
	30	*Fn.*	*EII*	*+0.001*	*−0.42*	*−0.38*	*0*	---	3½	
Aug.	*17*	*Wy.*	*WII*	*+0.041*	*−0.97*	*−0.97*	*0*	---	3½	
	19	*Fn.*	*WII*	*+0.030*	*+0.47*	*+0.36*	*0*	---	3½	
	24	*Wy.*	*EII*	*+0.031*	*+0.08*	*−0.01*	*I*	---	3½	
Sept.	*10*	*Fn.*	*EII*	*+0.022*	*−0.78*	*−0.75*	*0*	---	*3*	
1918										
Jan.	10	Fn.	EII	−0.022		+0.31	I	3.4	3	
	17	Fn.	EII	+0.012		----	0	---	2½	
	29	Wy.	WII	+0.062		−1.50	II	2.1	2½	
Feb.	11	Wy.	WII	+0.030		−0.17	I	3.4	3½	
	12	Fn.	WII	+0.089		−1.00	I	---	3½	
	18	Fn.	EII	−0.017		−1.18	I	2.9	2½	
	28	Wy.	EII	+0.049		+0.39	I	---	3½	
Mar.	5	Hd.	EII	+0.012		+0.02	I	2.9	3	
	7	Fn.	EII	+0.029		+0.22	I	2.9	2½	
	8	Wy.	EII	+0.009		−0.40	I	2.9	2½	
	25	*Fn.*	*WII*	*−0.036*	*−0.61*	*−0.59*	*0*	---	*3*	
	26	*Wy.*	*WII*	*0.000*	*−1.20*	*−1.12*	*0*	---	3½	
	28	*Fn.*	*WII*	*+0.022*	*−0.78*	*−0.75*	*0*	---	*3*	
July	*1*	*Hd.*	*WII*	*+0.108*	*−1.04*	*−0.92*	*0*	---	3½	
	8	*Hd.*	*EII*	*+0.038*	*−0.04*	*+0.10*	*0*	---	*4*	
	10	*Wy.*	*EII*	*+0.026*	*−0.06*	*+0.07*	*0*	---	*4*	
	14	*Wy.*	*EII*	*+0.017*	*−0.32*	*−0.19*	*0*	---	*4*	
	15	*Hd.*	*EII*	*+0.031*	*−0.38*	*−0.30*	*0*	---	3½	
Aug.	*1*	*Hd.*	*WII*	*+0.046*	*+0.06*	*+0.03*	*0*	---	*3*	
	7	*Wy.*	*WII*	*+0.026*	----	----	*0*	---	3½	
	8	*Hd.*	*WII*	*+0.054*	*−0.41*	*−0.39*	*0*	---	3½	
	11	*Fn.*	*WII*	*+0.008*	*−0.66*	*−0.69*	*0*	---	3½	
	12	*Wy.*	*WII*	*−0.003*	*−0.50*	*−0.48*	*0*	---	3½	
	14	*Fn.*	*WII*	*+0.016*	*−0.06*	*−0.04*	*0*	---	3½	
	15	*Hd.*	*WII*	*+0.041*	*−0.37*	*−0.43*	*0*	---	3½	
Mean		1914.80		+0.029		−0.05				
		1914.76								
Corr				−0.081		−0.18				

Groombridge 966

h m s ° ′ ″
5 27 41.009 +74 59 8.94

1911										
Nov.	22	Hd.	EII	0.00		+0.63	0	6.2	--	
Dec.	7	Hd.	WII	−0.04		+0.65	0	6.5	1	
	19	Hd.	EII	−0.10		+0.20	0	6.2	2	
1912										
Jan.	20	R.	WII	−0.06		+0.86	0	7.0	3	

				s		″				
1915										
Sept.	28	Hd.	EI	−0.10		+0.85	0	6.0	3	
	29	Fn.	EI	−0.10		+0.83	0	6.0	2½	
Oct.	9	Hd.	WI	+0.01		+0.44	0	6.0	2	
	11	Hd.	WI	−0.08		+0.64	0	6.0	2	
Mean		1913.86		−0.059		+0.64				
Corr				−0.081		−0.35				

Groombridge 966 s. p.

h m s ° ′ ″
5 27 41.009 +74 59 8.93

1911										
July	6	Fn.	EII	−0.02		−0.98	0	6.7	3	
	9	R.	EII	0.00		−1.45	0	5.5	4½	
	10	Fn.	WII	−0.16		−0.53	0	6.7	2½	
	12	R.	WII	−0.16		−1.46	0	---	3½	
1915										
May	9	Wy.	EI	−0.05		−1.07	0	7.0	3½	
	19	Fn.	EI	−0.17		−1.14	0	6.5	3	
	31	Wy.	WI	+0.04		−0.19	0	6.5	3	
June	4	An.	WI	----		−0.01	0	7.0	3	
Mean		1913.17		−0.074		−0.85				
		1913.46								
Corr				−0.081		+0.53				

ϵ Columbæ

				h	m	s	°	′	″			
1911												
Dec.	25	R.	EII	5	28	1.088	−35	32	9.67	0	---	4
	27	R.	EII			1.000			8.45	0	---	5
1912												
Jan.	16	R.	WII			0.999			11.16	0	---	5
	21	Hd.	WII			1.116			11.88	I	---	5
1915												
Nov.	5	Fn.	EI			1.129			10.87	0	4.5	3½
	7	Hd.	EI			1.115			10.77	I	4.4	3
	9	Wy.	WI			1.109			10.19	I	3.9	3½
	15	Wy.	WI			1.101			8.10	0	---	4½
	16	Hd.	WI			1.211			12.68	0	---	4
Mean		1914.15		5	28	1.096	−35	32	10.42			
Corr						−0.081			+0.15			

19 Camelopardalis

				h	m	s	°	′	″			
1912												
Nov.	22	Fn.	EII	5	28	32.31	+64	5	50.32	0	6.0	2
Dec.	9	Fn.	WII			32.20			50.40	0	6.4	2
	16	Fn.	EII			32.26			50.03	0	---	2
	27	Fn.	WII			32.26			50.47	0	7.0	3½
1914												
Jan.	21	Hd.	WI			32.35			49.94	0	6.5	2
	27	Fn.	WI			32.30			50.45	0	6.5	3½
Feb.	9	Fn.	EI			32.32			49.89	0	6.5	2½
	11	Hd.	EI			32.32			49.88	0	6.5	2
Mean		1913.52		5	28	32.290	+64	5	50.17			
Corr						−0.081			−0.33			

α Leporis

				h	m	s	°	′	″				
				5	28	45.638	−17	53	10.22				
1912													
Nov.	9	Fn.	WII			+0.006			−0.46	I	2.5	3½	
	12	R.	EII			+0.023			−0.26	I	3.4	1½	
	16	R.	EII			+0.024			+0.50	II	2.6	3	
Dec.	3	R.	WII			+0.001			−0.46	I	3.9	3½	
1915													
Jan.	4	Hd.	EI			−0.066			−0.68	I	3.4	3	
	5	Wy.	EI			−0.048			−0.64	I	---	3	
	10	Wy.	WI			+0.051			−0.79	I	3.4	2½	
	13	An.	WI			+0.002			+0.09	II	3.6	2½	
Feb.	10	Hd.	EI			-----			−0.59	I	---	3	
	17	Fn.–Wy.	EI			-----			+1.19	I	2.9	3	
	18	Hd.–An.	EI			-----			−1.16	I	---	3	R.
	19	Fn.–Wy.	EI			-----			−1.33	I	---	3	R.

1915			s	"			
Feb. 20	An.–Hd.	WI	-----	−0. 28	II	3. 6	2½
21	An.–Hd.	WI	-----	−2. 04	I	--- 3	R.
22	Wy.–Fn.	WI	-----	+0. 98	I	3. 4	3½
Mar. 1	Wy.–Fn.	WI	-----	+0. 35	0	--- 3½	R.
2	Wy.–Fn.	WI	-----	+0. 37	I	3. 4	3½
Mean------	1913. 95		−0. 001	−0. 08			
	1914. 41						
Corr------			−0. 081	−0. 09			

Bradley 793

1912			h m s	° ′ ″			
Jan. 9	R.	EII	5 29 32. 573	+3 42 20. 86	0	---	5
10	Hd.	EII	32. 555	21. 66	0	6. 0	3
19	Fn.	WII	32. 548	22. 02	0	5. 7	2
22	Hd.	WII	32. 584	21. 63	0	5. 8	3
1915							
Nov. 23	Fn.	EI	32. 521	21. 09	0	6. 0	2
24	Wy.	EI	32. 519	21. 03	0	5. 5	2½
Dec. 9	Fn.	WI	32. 550	22. 04	0	6. 0	3
10	Hd.	WI	32. 585	21. 23	0	6. 0	2½
Mean------	1913. 98		5 29 32. 554	+3 42 21. 44			
Corr------			−0. 081	−0. 19			

φ^1 Orionis

			n m s	° ′ ″			
			5 29 52. 730	+9 25 45. 12			
1912							
Oct. 9	R.	WII	+0. 014	+0. 17	I	4. 4	2½
25	Fn.	EII	+0. 040	−0. 30	0	4. 5	2
26	R.	EII	+0. 038	+1. 64	I	3. 9	4
Nov. 4	R.	WII	+0. 035	+0. 17	I	4. 4	3½
1914							
Feb. 12	Fn.	EI	+0. 049	+1. 16	0	5. 5	2
15	Fn.	WI	+0. 068	+1. 00	0	4. 5	2
16	Fn.	WI	+0. 030	+0. 44	0	4. 5	2
26	Fn.	EI	−0. 004	+0. 81	I	4. 4	2½
Mean------	1913. 47		+0. 034	+0. 64			
Corr------			−0. 081	−0. 21			

ι Orionis [1]

			h m s	° ′ ″			
			5 31 1. 820	−5 58 6. 25			
1912							
Nov. 18	Fn.	EII	+0. 027	−0. 28	I	2. 1	1½
20	Fn.	EII	−0. 033	+0. 50	I	2. 4	3
1913							
Jan. 4	Hd.	WII	+0. 022	−0. 64	I	2. 9	3
8	Fn.	WII	+0. 005	+0. 61	I	---	4
1914							
Feb. 21	Hd.	WI	+0. 044	−0. 17	I	2. 9	2
Mar. 3	Wy.	WI	+0. 006	−0. 15	I	3. 1	2½
7	Hd.	EI	+0. 032	+0. 99	I	2. 9	2½
8	Hd.	EI	+0. 025	+0. 23	I	2. 9	2
Mean------	1913. 56		+0. 016	+0. 14			
Corr------			−0. 081	−0. 16			

ε Orionis

			h m s	° ′ ″			
			5 31 38. 771	−1 15 31. 41			
1912			s	"			
Feb. 1	Fn.	EII	+0. 016	−0. 28	0	---	2
2	Hd.	WII	+0. 039	−0. 28	II	2. 1	2
4	Fn.	WII	+0. 009	−0. 08	II	2. 0	2
6	Hd.	EII	+0. 051	−0. 40	II	2. 1	2
1915							
Nov. 7	Hd.	EI	+0. 078	−0. 68	II	2. 1	2
9	Wy.	WI	+0. 030	−0. 92	II	2. 1	2½
10	Hd.	WI	+0. 046	−0. 45	II	2. 1	2½
22	Hd.	EI	+0. 024	−0. 45	II	2. 1	2

1916			s	"	"			
June 22	*Hd.*	*WI*	*+0. 027*	*+0. 07*	*+0. 31*	*0*	---	*3½*
July 5	*Wy.*	*EI*	*+0. 009*	----	----	*0*	---	*4*
6	*Fn.*	*EI*	*+0. 057*	----	----	*0*	---	*3½*
12	*Hd.*	*EI*	*+0. 027*	*−0. 79*	*−0. 69*	*0*	---	*3½*
17	*Wy.*	*EI*	-----	*−0. 83*	*−0. 84*	*0*	---	*3½*
19	*Hd.*	*EI*	*+0. 022*	----	----	*0*	---	*3*
Aug. 24	*Fn.*	*WI*	*+0. 026*	*−0. 38*	*−0. 45*	*0*	---	*2½*
31	*Fn.*	*WI*	*−0. 046*	*−1. 28*	*−1. 31*	*0*	---	*3*
Sept. 7	*Wy.*	*WI*	*+0. 045*	*−1. 22*	*−1. 23*	*0*	---	*3½*
10	*Hd.*	*WI*	*+0. 039*	*−0. 58*	*−0. 65*	*I*	---	*3*
1917								
Jan. 19	Hd.	EI	+0. 032		−0. 62	II	2. 6	2
Mar. 6	Fn.	WI	+0. 029		----	I	---	2
12	*Hd.*	*EI*	*+0. 037*	----	----	*I*	---	*2½*
Apr. 10	*Fn.*	*WI*	*+0. 055*	*−1. 90*	*−1. 89*	*0*	---	*3½*
23	*Wy.*	*EI*	*−0. 080*	*−0. 47*	*−0. 34*	*0*	---	*3½*
May 1	*Fn.*	*EI*	*+0. 018*	*−1. 18*	*−1. 10*	*0*	---	*3½*
July 1	*Hd.*	*EII*	-----	*−0. 65*	*−0. 55*	*0*	---	*3*
16	*Wy.*	*EII*	-----	*−0. 94*	*−0. 91*	*0*	---	*3½*
29	*Wy.*	*EII*	*+0. 004*	*+0. 05*	*+0. 09*	*0*	---	*3½*
Aug. 17	*Wy.*	*WII*	*+0. 064*	*−0. 58*	*−0. 59*	*I*	---	*3½*
19	*Fn.*	*WII*	*−0. 016*	*−0. 34*	*−0. 46*	*0*	---	*3½*
24	*Wy.*	*EII*	*+0. 021*	*−0. 22*	*−0. 32*	*0*	---	*3½*
1918								
Jan. 17	Fn.	EII	+0. 037		----	I	2. 9	2½
29	Wy.	WII	+0. 027		−0. 70	II	2. 1	2
Feb. 11	Wy.	WII	+0. 069		−0. 51	I	---	3½
12	Fn.	WII	+0. 033		−1. 05	I	1. 9	3½
18	Fn.	EII	+0. 022		−0. 74	I	---	3
21	Fn.	EII	+0. 008		−0. 84	I	2. 4	2½
28	Wy.	EII	+0. 022		+0. 91	I	---	4
Mar. 5	Hd.	EII	+0. 030		−0. 28	I	2. 4	3
7	Fn.	EII	+0. 038		−0. 32	I	2. 4	2
8	Wy.	EII	+0. 023		−0. 11	I	2. 9	2½
26	*Wy.*	*WII*	*+0. 049*	*−0. 56*	*−0. 48*	*0*	--	*3*
28	*Fn.*	*WII*	*+0. 026*	*−0. 49*	*−0. 46*	*0*	---	*2½*
June 23	*Wy.*	*WII*	*−0. 045*	*−1. 35*	*−0. 98*	*0*	---	*4*
July 1	*Hd.*	*WII*	*−0. 008*	*−0. 93*	*−0. 82*	*0*	---	*3½*
8	*Hd.*	*EII*	*+0. 022*	*−0. 03*	*+0. 12*	*0*	---	*4*
14	*Wy.*	*EII*	*−0. 015*	*+0. 49*	*+0. 64*	*0*	---	*4*
15	*Hd.*	*EII*	*+0. 016*	*−0. 90*	*−0. 82*	*0*	---	*3½*
17	*Wy.*	*EII*	*+0. 058*	*−0. 38*	*−0. 26*	*0*	---	*4*
22	*Fn.*	*EII*	*+0. 037*	*−0. 60*	*−0. 51*	*0*	---	*3½*
24	*Fn.*	*EII*	*+0. 086*	*−0. 14*	*−0. 06*	*0*	---	*3½*
Aug. 1	*Hd.*	*WII*	*+0. 033*	*−0. 37*	*−0. 38*	*0*	---	*3*
7	*Wy.*	*WII*	*+0. 044*	*−1. 10*	*−1. 09*	*0*	---	*3½*
8	*Hd.*	*WII*	*+0. 086*	*+0. 05*	*+0. 08*	*0*	---	*3½*
11	*Fn.*	*WII*	*+0. 048*	*−1. 08*	*−1. 09*	*0*	---	*3½*
12	*Wy.*	*WII*	*+0. 005*	*−0. 53*	*−0. 51*	*0*	---	*3½*
14	*Fn.*	*WII*	*+0. 002*	*−0. 23*	*−0. 21*	*0*	---	*3½*
15	*Hd.*	*WII*	*+0. 109*	*−1. 08*	*−1. 14*	*0*	---	*3½*
Mean------	1916. 37		+0. 033		−0. 43			
	1916. 23							
Corr------			−0. 081		−0. 18			

Weisse$_1$ V 718

1912			h m s	° ′ ″			
Dec. 19	Hd.	EII	5 32 4. 239	+10 58 47. 20	0	6. 5	2
20	Fn.	EII	4. 264	47. 75	0	---	2½
28	Hd.	WII	4. 244	48. 23	0	6. 2	3
30	Fn.	WII	4. 294	46. 95	0	6. 7	2
1913							
Nov. 22	R.	WI	4. 259	47. 66	0	5. 5	2
Dec. 8	Hd.	EI	4. 259	47. 55	0	6. 5	3
9	Fn.	EI	4. 243	48. 11	0	6. 5	2½
18	Hd.	WI	4. 238	48. 39	0	6. 5	2
Mean------	1913. 46		5 32 4. 255	+10 58 47. 73			
Corr------			−0. 081	−0. 21			

Dorpat 1830, 611 [2]

1912			h m s	° ′ ″			
Feb. 5	Fn.	WII	5 32 11. 898	−6 7 14. 45	0	6. 3	3
9	Hd.	EII	11. 869	15. 60	0	6. 2	--

[1] Double; n. pr. component observed.

[2] Double; s. fol. component observed.

			h m s	° ′ ″			
1912							
Feb. 10	R.	EII	11.907		13.77	0 ---	3
22	R.	WII	11.915		15.34	0 ---	4
1915							
Nov. 3	Wy.	EI	11.866		14.66	0 6.0	2
5	Fn.	EI	11.881		14.42	0 6.5	2½
15	Wy.	WI	11.889		13.67	0 6.5	3
17	Fn.	WI	11.957		14.93	0 6.0	2½
Mean	1913.99		5 32 11.898	−6	7 14.60		
Corr			−0.081		−0.16		

ζ Tauri

			h m s	° ′ ″			
			5 32 15.928	+21	5 17.70		
1913							
Jan. 14	R.	WII	−0.019		0.00	I 3.4	1
15	Fn.	WII	+0.048		−0.04	0 ---	3½
18	Hd.	EII	+0.002		+0.26	I 2.9	2
19	Hd.	EII	+0.003		+0.24	I 2.9	2
Nov. 20	Hd.	WI	+0.017		+0.70	I 2.9	2
21	Fn.	WI	−0.001		+1.02	I 3.4	1½
Dec. 3	R.	EI	−0.014		+0.43	II 2.6	2
5	R.	EI	−0.015		+0.14	I 2.9	2½
Mean	1913.48		+0.003		+0.34		
Corr			−0.081		−0.23		

Groombridge 944

			h m s	° ″	″			
			5 33 1.56	+85 9	14.44			
1912			s	″	″			
Feb. 28	R.	WII	+0.15		+0.99	0 6.5	3	
Mar. 1	Hd.	WII	+0.27		+0.17	0 6.2	2	
2	R.	WII	----		−0.36	0 ---	3	R.
2	R.	WII	+0.38		+0.73	0 7.0	3	
7	Fn.	WII	----		+1.00	0 ---	2	R.
7	Fn.	WII	+0.50		+0.59	0 ---	2	
16	*R.*	*EII*	*+0.03*	*+0.49*	*+0.52*	*0* ---	--	
17	*Hd.*	*EII*	*+0.15*	*+0.41*	*+0.33*	*0* ---	*2*	
1913								
Mar. 3	R.	EII	+0.08		+0.65	0 6.5	2½	
5	R.	EII	----		+0.69	0 ---	2	R.
5	R.	EII	+0.69		+0.62	0 7.0	2	
6	Hd.	EII	+0.33		+0.20	0 6.0	3	
7	R.	EII	+0.52		+0.72	0 6.5	2	
8	R.	EII	----		−0.55	0 ---	2½	R.
8	R.	EII	+0.41		+0.90	0 ---	2½	
9	R.	EII	----		+0.03	0 ---	3	R.
9	R.	EII	−0.07		+1.55	0 6.5	3	
11	Fn.	EII	+0.40		+0.83	0 ---	3½	
12	*Hd.*	*EII*	*+0.55*	*+0.39*	*+0.35*	*0* ---	*4*	
17	*Hd.*	*WII*	*−0.01*	*+0.77*	*+0.73*	*0* ---	*2*	
18	*Fn.*	*WII*	*+0.24*	----	----	*0* ---	*3*	
20	*Hd.*	*WII*	*−0.06*	*+0.67*	*+0.61*	*0* ---	*3½*	
1914								
Mar. 3	Wy.	WI	−0.35		+0.92	0 6.5	--	
4	Hd.	WI	+0.76		+0.81	0 7.0	3½	
7	Hd.	EI	+0.80		+0.68	0 6.5	2½	
9	Fn.	WI	+0.37		−0.41	0 ---	2½	
10	Wy.	WI	+0.54		−0.11	0 ---	2	
12	*Fn.*	*WI*	----	*+0.36*	*+0.32*	*0* ---	*2½*	*R.*
12	*Fn.*	*WI*	*+0.63*	*+0.29*	*+0.25*	*0* ---	*2½*	
13	*Wy.*	*WI*	----	*+1.68*	*+1.71*	*0* ---	*2½*	*R.*
13	*Wy.*	*WI*	*+0.75*	*+0.51*	*+0.54*	*0* ---	*2½*	
1915								
Feb. 10	Hd.	EI	----		+1.03	0 7.0	2	
17	Fn.–Wy.	EI	----		+0.83	0 5.5	2½	
18	Hd.–An.	EI	----		+0.47	0 ---	3	R.
19	Fn.–Wy.	EI	----		−0.60	0 ---	--	R.
20	An.–Hd.	WI	----		+1.13	0 6.0	2½	
21	An.–Hd.	WI	----		+1.41	0 ---	3	R.
22	Wy.–Fn.	WI	----		+0.63	0 6.5	3½	
Mar. 1	Wy.–Fn.	WI	----		+1.42	0 ---	--	R.
2	Wy.–Fn.	WI	----		−0.02	0 6.5	3	
3	Wy.–Fn.	WI	----		+0.12	0 ---	3½	R.

			s	″	″			
1916								
Feb. 28	Hd.	WI	−0.07		+1.20	0 ---	3	
29	Wy.	WI	+0.82		+1.69	0 7.5	3	
Mar. 4	Fn.	WI	+0.21		+0.67	0 6.5	3	
7	Wy.	WI	+0.63		+1.68	0 ---	4	
9	Hd.	WI	+0.06		+0.81	0 6.0	3	
11	Wy.	WI	+0.57		+0.71	0 ---	2½	
16	*Hd.*	*WI*	*−0.05*	*+1.59*	*+1.56*	*0* ---	*3*	
Sept. 24	Wy.	EI	+0.08		+0.52	0 6.5	2½	
1917								
Mar. 6	Fn.	WI	−0.10		+1.52	0 6.5	2½	
12	*Hd.*	*EI*	*+0.20*	*+1.78*	*+1.72*	*0* ---	*2*	
1918								
Mar. 11	Hd.	WII	+0.47		+0.54	0 ---	3	
15	*Fn.*	*WII*	*−0.08*	*+1.30*	*+1.24*	*0* ---	*2½*	
Mean	1914.44		+0.34		+0.76			
	1914.56							
Corr			−0.08		−0.39			

Groombridge 944 s. p.

			h m s	° ′ ″				
			5 33 1.54	+85 9	14.45			
1912			s	″	″			
Mar. 10	*Hd.*	*EII*	*+0.96*	*−0.17*	*−0.21*	*0* ---	--	
13	*Hd.*	*EII*	*−0.02*	*−0.27*	*−0.27*	*0* ---	*2*	
18	R.	EII	----		−0.16	0 ---	--	R.
18	R.	EII	+0.30		−1.10	0 ---	--	
19	R.	EII	----		+0.55	0 ---	--	R.
19	R.	EII	+0.21		+0.48	0 ---	--	
June 10	Hd.–Fn.	EII	----		+0.36	0 ---	5	R.
10	Hd.–Fn.	EII	----		−0.30	0 ---	5	
11	Hd.–Fn.	EII	----		−0.15	0 ---	4	R.
11	Hd.–Fn.	EII	----		−0.35	0 ---	4	
20	Fn.–Hd.	EII	----		+0.55	0 ---	--	R.
20	Fn.–Hd.	EII	----		−0.39	0 ---	--	
July 2	Fn.–Hd.	EII	----		+0.13	0 ---	--	R.
2	Fn.–Hd.	EII	----		−0.03	0 ---	--	
3	Hd.–Fn.	WII	----		−0.27	0 ---	--	R.
3	Hd.–Fn.	WII	----		−0.02	0 ---	--	
5	Hd.–Fn.	WII	----		+0.05	0 ---	--	R.
5	Hd.–Fn.	WII	----		+0.53	0 ---	--	
6	Fn.–Hd.	WII	----		−0.25	0 ---	--	R.
6	Fn.–Hd.	WII	----		−0.10	0 ---	--	
8	Fn.–Hd.	WII	----		−0.55	0 ---	--	R.
8	Fn.–Hd.	WII	----		+0.18	0 ---	--	
1913								
Mar. 11	*R.*	*EII*	----	*+0.57*	*+0.57*	*0* ---	*2*	*R.*
11	*R.*	*EII*	*−0.15*	*−1.22*	*−1.22*	*0* ---	*2*	
16	*Fn.*	*WII*	*−0.15*	*+1.13*	*+1.13*	*0* ---	*3½*	
17	*Hd.*	*WII*	*+0.05*	*−0.35*	*−0.35*	*0* ---	*3*	
18	*R.*	*WII*	*+0.46*	*−0.31*	*−0.34*	*0* ---	*2½*	
21	R.	WII	−0.32		+0.43	0 ---	2½	
1914								
Mar. 13	*Fn.*	*WI*	*−0.21*	*+0.14*	*+0.28*	*0* ---	*3*	
15	*Hd.*	*WI*	*+0.34*	*−0.09*	*−0.09*	*0* ---	*3½*	
18	*Wy.*	*EI*	*+0.45*	*−0.36*	*−0.32*	*0* ---	*3½*	
20	Fn.	EI	+0.21		+0.77	0 6.5	3	
1916								
Mar. 8	*Hd.*	*WI*	*−0.43*	----	----	*0* ---	*3*	
10	*Fn.*	*WI*	*+0.95*	----	----	*0* ---	*3*	
11	*Wy.*	*WI*	*+0.35*	*−0.46*	*−0.50*	*0* ---	*3*	
16	*Hd.*	*WI*	*+0.15*	*−1.06*	*−0.94*	*0* ---	*3½*	
Sept. 20	*Wy.*	*EI*	*+0.25*	*−0.22*	*−0.04*	*0* ---	*3*	
1917								
Mar. 15	*Hd.*	*EI*	*+0.39*	*+0.44*	*+0.48*	*0* ---	*3½*	
18	*Fn.*	*EI*	*+0.47*	*−0.03*	*+0.07*	*0* ---	*2½*	
19	*Hd.*	*EI*	*+0.55*	*−0.41*	*−0.05*	*0* ---	*3*	
1918								
Mar. 10	*Hd.*	*WII*	*+0.13*	*+0.24*	*+0.26*	*0* ---	*3*	
18	*Hd.*	*WII*	*+0.24*	*−0.13*	*+0.03*	*0* ---	*3½*	
Mean	1912.97		+0.10		+0.01			
	1912.65							
Corr			−0.08		+0.44			

Weisse$_2$ V 957

				h	m	s	°	′	″			
1912												
Oct. 29	R.	EII		5	34	21.164	+24	10	27.92	0	6.5	1½
Nov. 4	R.	WII				21.171			28.24	0	---	--
9	Fn.	WII				21.157			27.66	0	7.4	1½
12	R.	EII				21.161			28.34	0	7.5	2
1913												
Nov. 4	Fn.	EI				21.144			27.67	0	7.0	2
5	R.	EI				21.167			28.45	0	7.0	3
10	Hd.	WI				21.161			28.70	0	---	3
17	Hd.	WI				21.188			28.93	0	7.0	2
Mean		1913.35		5	34	21.164	+24	10	28.24			
Corr						−0.081			−0.24			

Lacaille 1918

				h	m	s	°	′	″			
1911												
Dec. 7	Hd.	WII		5	34	31.896	−27	15	44.76	0	7.0	--
19	Hd.	EII				31.929			45.03	0	5.5	3½
25	R.	EII				32.020			45.17	0	6.0	2
1912												
Jan. 16	R.	WII				32.025			44.93	0	7.5	4
1915												
Sept. 22	Wy.	EI				31.932			44.70	0	7.0	3½
24	Hd.	EI				31.930			43.94	0	6.5	3½
28	Hd.	EI				31.988			43.21	0	7.0	4
Oct. 9	Hd.	WI				31.983			45.37	0	7.0	3
11	Hd.	WI				31.979			45.67	0	6.5	3
Mean		1914.07		5	34	31.965	−27	15	44.75			
Corr						−0.081			−0.01			

Lalande 10726

				h	m	s	°	′	″			
1912												
Oct. 9	R.	WII		5	35	18.273	−17	53	57.33	0	7.0	2½
25	Fn.	EII				18.261			56.64	0	7.0	3
26	R.	EII				18.339			56.34	0	---	4
1913												
Jan. 4	Hd.	WII				18.330			57.44	0	7.0	3½
1914												
Jan. 21	Hd.	WI				18.324			57.37	0	7.0	3
27	Fn.	WI				18.365			56.98	0	7.0	3½
Feb. 7	Hd.	EI				18.335			57.53	0	7.5	3
9	Fn.	EI				18.330			57.28	0	6.5	3
Mean		1913.47		5	35	18.320	−17	53	57.11			
Corr						−0.081			−0.09			

Bradley 797

				h	m	s	°	′	″			
1912												
Jan. 20	R.	WII		5	35	23.595	+56	32	7.61	0	7.0	1½
21	Hd.	WII				23.569			8.03	0	6.0	--
Feb. 13	Hd.	EII				23.633			7.57	0	6.0	2
14	R.	EII				23.534			7.65	0	---	1
1915												
Sept. 29	Fn.	EI				23.542			7.41	0	6.5	2½
Oct. 21	Fn.	WI				23.610			8.20	0	6.5	3
22	Hd.	WI				23.574			8.57	0	---	3
30	Fn.	EI				23.588			7.41	0	6.0	2
Mean		1913.94		5	35	23.581	+56	32	7.81			
Corr						−0.081			−0.31			

ζ Orionis [1]

				h	m	s	°	′	″			
				5	36	13.042	−1	59	22.89			
1912						s			″			
Jan. 22	Hd.	WII				+0.068			+0.50	II	2.6	3
Feb. 2	Hd.	WII				−0.005			+0.82	II	2.1	2
6	Hd.	EII				+0.017			+1.15	II	2.1	2
8	Fn.	EII				−0.014			+0.40	II	1.9	2½
1915						s			″			
Oct. 23	Wy.	WI				−0.010			+0.60	II	2.6	3½
25	Wy.	WI				+0.018			[−1.77]	I	2.4	3½
28	Wy.	EI				+0.028			+0.02	I	2.9	3
29	Hd.	EI				+0.010			+0.31	II	2.6	3
1916												
July 12	*Hd.*	*EI*				*−0.012*	*−0.07*		*+0.05*	*0*	---	*3½*
17	*Wy.*	*EI*				*+0.012*	*−0.06*		*−0.07*	*0*	---	*3½*
Aug. 20	*Wy.*	*EI*				*−0.010*	*+0.20*		*+0.15*	*0*	---	*3½*
21	*Fn.*	*EI*				*+0.078*	*+1.65*		*+1.56*	*0*	---	*3½*
24	*Fn.*	*WI*				*−0.018*	*+0.09*		*+0.02*	*0*	---	*3*
31	*Fn.*	*WI*				*−0.030*	*−0.50*		*−0.53*	*0*	---	*3*
Sept. 7	*Wy.*	*WI*				*−0.001*	*−0.07*		*−0.07*	*0*	---	*3½*
10	*Hd.*	*WI*				*+0.048*	*−0.25*		*−0.34*	*I*	---	*3½*
1917												
Jan. 11	Wy.	EI				+0.013			+0.57	I	---	3
19	Hd.	EI				−0.016			+0.54	II	3.1	2
Mar. 20	*Hd.*	*EI*				*+0.042*	*−0.21*		*−0.24*	*I*	---	*3*
Apr. 10	*Fn.*	*WI*				*+0.009*	*−0.70*		*−0.69*	*0*	---	*3½*
16	*Fn.*	*WI*				*−0.111*	*−0.34*		*−0.26*	*0*	---	*3½*
23	*Wy.*	*EI*				*−0.101*	*+0.09*		*+0.21*	*0*	---	*3½*
July 1	*Hd.*	*EII*				-----	*+0.02*		*+0.19*	*0*	---	*3*
29	*Wy.*	*EII*				*−0.020*	*−0.37*		*−0.32*	*0*	---	*3½*
30	*Fn.*	*EII*				*+0.021*	*+0.53*		*+0.58*	*0*	---	*3½*
Aug. 17	*Wy.*	*WII*				*+0.023*	*−0.01*		*−0.02*	*I*	---	*3½*
19	*Fn.*	*WII*				*+0.018*	*+0.73*		*+0.64*	*0*	---	*3½*
20	*Wy.*	*WII*				*+0.014*	*+1.04*		*+0.95*	*0*	---	*3½*
24	*Wy.*	*EII*				*0.000*	*+0.98*		*+0.86*	*0*	---	*3½*
1918												
Jan. 29	Wy.	WII				+0.024			−0.31	II	2.1	2½
Feb. 11	Wy.	WII				+0.051			+0.02	I	---	3½
18	Fn.	EII				+0.002			+0.47	I	2.4	3
21	Fn.	EII				−0.002			+1.01	I	2.4	2½
28	Wy.	EII				0.000			+1.13	I	---	4
Mar. 5	Hd.	EII				+0.004			+1.01	I	2.9	3½
7	Fn.	EII				+0.040			+1.14	I	2.9	2
8	Wy.	EII				+0.022			+1.39	I	2.9	2½
26	*Wy.*	*WII*				*+0.052*	*+0.69*		*+0.75*	*0*	---	*3*
28	*Fn.*	*WII*				*−0.007*	*−0.19*		*−0.15*	*0*	---	*2½*
June 23	*Wy.*	*WII*				*−0.067*	*+0.51*		*+0.91*	*0*	---	*4*
July 1	*Hd.*	*WII*				*−0.011*	*−0.36*		*−0.25*	*0*	---	*4*
8	*Hd.*	*EII*				*+0.040*	*+0.49*		*+0.66*	*0*	---	*3½*
10	*Wy.*	*EII*				*+0.015*	*+1.48*		*+1.63*	*0*	---	*3½*
14	*Wy.*	*EII*				*+0.019*	*+1.58*		*+1.75*	*0*	---	*4*
15	*Hd.*	*EII*				*+0.060*	*+0.14*		*+0.22*	*0*	---	*3½*
17	*Wy.*	*EII*				*+0.066*	*+1.10*		*+1.23*	*0*	---	*4*
Aug. 1	*Hd.*	*WII*				*+0.053*	----		----	*0*	---	*3*
11	*Fn.*	*WII*				*−0.016*	*−0.18*		*−0.16*	*0*	---	*3½*
12	*Wy.*	*WII*				*+0.011*	*+0.94*		*+0.97*	*0*	---	*3½*
14	*Fn.*	*WII*				*−0.019*	*+0.59*		*+0.62*	*0*	---	*3½*
15	*Hd.*	*WII*				*+0.078*	*+0.27*		*+0.22*	*0*	---	*3½*
Mean		1916.16				+0.014			+0.63			
		1916.18										
Corr						−0.081			−0.17			

α Columbæ

				h	m	s	°	′	″			
				5	36	23.404	−34	7	18.21			
1912												
Nov. 16	R.	EII				+0.042			+0.69	I	---	3½
22	Fn.	EII				+0.033			+0.96	0	---	4
1913												
Jan. 14	R.	WII				−0.006			−0.66	I	3.9	2
30	Hd.	WII				+0.017			−0.32	0	---	3
1914												
Jan. 31	Wy.	WI				+0.047			+2.19	0	4.0	4½
Feb. 2	Fn.	WI				−0.058			+1.07	0	---	3½
4	Hd.	EI				+0.054			+0.24	0	---	4
11	Hd.	EI				+0.038			−0.80	I	4.4	4
Mean		1913.54				+0.021			+0.42			
Corr						−0.081			+0.11			

[1] Double; n. pr. component observed.

Lacaille 1962

			h m s	° ′ ″			
1911							
Dec. 5	Hd.	WII	5 38 45.718	−30 34 41.89	0	6.0	5
6	Hd.	WII	45.867	42.59	0	6.3	3
1912							
Jan. 10	Hd.	EII	45.729	41.92	0	---	5
Feb. 9	Hd.	EII	45.767	42.58	0	6.5	5
1915							
Nov. 1	Hd.	EI	45.813	43.35	0	---	4
3	Wy.	EI	45.729	42.60	0	7.0	3
9	Wy.	WI	45.780	41.99	0	7.0	3½
15	Wy.	WI	45.812	[38.96]	0	7.0	3½
Mean	1913.92		5 38 45.777	−30 34 42.42			
	1913.65						
Corr			−0.081	+0.04			

o Aurigæ

			h m s	° ′ ″				
			5 38 55.585	+49 47 15.73				
1912								
Feb. 16	Hd.	EII	−0.015	+0.96	0	---	2	
17	R.	EII	+0.066	+0.71	0	---	3	
22	R.	WII	+0.043	+0.85	0	---	--	
23	Hd.	WII	−0.026	+1.01	0	5.8	3	
1915								
Feb. 10	Hd.	EI	-----	+1.61	0	---	--	
17	Fn.–Wy.	EI	-----	+1.30	0	5.5	2	
18	Hd.–An.	EI	-----	+0.69	0	---	3	R.
19	Fn.–Wy.	EI	-----	−0.28	0	---	3	R.
20	An.–Hd.	WI	-----	+1.08	I	5.4	--	
21	An.–Hd.	WI	-----	+0.73	0	---	2½	R.
22	Wy.–Fn.	WI	-----	+1.64	0	6.5	3	
Mar. 1	Wy.–Fn.	WI	-----	+1.41	0	---	3	R.
2	Wy.–Fn.	WI	-----	+1.53	0	6.0	3	
Sept. 24	Hd.	EI	−0.011	+1.25	0	6.0	2	
28	Hd.	EI	+0.064	+1.45	0	6.0	3	
Oct. 9	Hd.	WI	+0.037	+1.12	0	6.0	2	
11	Hd.	WI	−0.011	+0.83	0	6.0	2	
Mean	1913.95		+0.018	+1.18				
	1914.40							
Corr			−0.081	−0.29				

Lalande 10922

			h m s	° ′ ″			
1912							
Dec. 19	Hd.	EII	5 40 35.916	−20 9 56.26	0	7.0	2
1913							
Jan. 4	Hd.	WII	35.922	56.40	0	7.0	3½
14	R.	WII	35.949	56.87	0	7.5	2
18	Hd.	EII	35.942	56.86	0	6.5	3
Nov. 20	Hd.	WI	35.895	56.03	0	6.5	3
21	Fn.	WI	35.942	56.08	0	7.0	2
Dec. 3	R.	EI	35.957	56.16	0	6.0	3
5	R.	EI	35.991	56.35	0	6.0	3
Mean	1913.46		5 40 35.939	−20 9 56.38			
Corr			−0.081	−0.08			

γ Leporis

			h m s	° ′ ″			
1911							
Dec. 7	Hd.	WII	5 40 42.610	−22 28 38.60	I	3.1	--
19	Hd.	EII	42.609	39.28	I	2.9	3
25	R.	EII	42.702	38.86	I	---	--
1912							
Jan. 16	R.	WII	42.595	38.65	0	---	4
1915							
Nov. 16	Hd.	WI	42.637	41.38	I	3.9	3
17	Fn.	WI	42.591	41.83	I	4.4	3
22	Hd.	EI	42.522	40.33	I	3.4	2
23	Fn.	EI	42.593	40.34	I	3.9	3
Mean	1913.93		5 40 42.607	−22 28 39.91			
Corr			−0.081	−0.06			

Bradley 830

			h m s	° ′ ″			
1912							
Oct. 9	R.	WII	5 41 34.944	+15 47 16.39	0	6.5	1½
29	R.	EII	34.930	16.61	0	5.5	1½
Nov. 4	R.	WII	34.947	16.91	0	---	4½
12	R.	EII	34.942	17.09	0	6.0	1½
1913							
Nov. 4	Fn.	EI	34.909	17.15	0	5.8	2
5	R.	EI	34.944	16.77	0	6.0	3
10	Hd.	WI	34.917	16.51	0	---	3
17	Hd.	WI	34.959	16.54	0	6.0	2
Mean	1913.34		5 41 34.936	+15 47 16.75			
Corr			−0.081	−0.22			

Weisse$_2$ V 1262

			h m s	° ′ ″			
1912							
Jan. 20	R.	WII	5 41 40.075	+29 37 36.08	0	7.5	1
21	Hd.	WII	40.085	36.16	0	7.0	--
Feb. 10	R.	EII	40.094	[38.21]	0	---	3
13	Hd.	EII	40.088	36.32	0	7.0	2
1915							
Sept. 29	Fn.	EI	40.086	35.71	0	7.0	2½
Oct. 12	Fn.	WI	40.100	35.11	0	7.0	2½
21	Fn.	WI	40.099	35.52	0	7.5	3
28	Wy.	EI	40.074	34.93	0	7.0	3
Mean	1913.94		5 41 40.088	+29 37 35.69			
	1914.20						
Corr			−0.081	−0.25			

B. D.+9° 954

			h m s	° ′ ″			
1912							
Nov. 5	Fn.	WII	5 41 55.654	+9 29 22.36	0	6.3	2½
9	Fn.	WII	55.645	22.67	0	5.6	2
16	R.	EII	55.649	23.52	0	6.5	3
18	Fn.	EII	55.629	23.16	0	6.3	1½
1914							
Jan. 21	Hd.	WI	55.657	21.90	0	6.0	2½
26	R.	WI	55.644	23.34	0	---	3
Feb. 4	Hd.	EI	55.688	23.58	0	---	2
7	Hd.	EI	55.680	23.50	0	6.0	2
Mean	1913.48		5 41 55.656	+9 29 23.00			
Corr			−0.081	−0.21			

130 Tauri

			h m s	° ′ ″			
1912							
Jan. 22	Hd.	WII	5 42 11.312	+17 41 45.91	0	6.0	--
Feb. 2	Hd.	WII	11.312	45.88	0	5.8	--
6	Hd.	EII	11.346	45.85	I	4.7	2
8	Fn.	EII	11.309	45.85	0	5.2	2½
1915							
Oct. 22	Hd.	WI	11.333	45.61	0	---	2½
23	Wy.	WI	11.333	46.17	0	6.0	3
29	Hd.	EI	11.303	46.02	0	6.0	3
30	Fn.	EI	11.317	45.62	0	6.0	2½
Mean	1913.95		5 42 11.321	+17 41 45.86			
Corr			−0.081	−0.23			

Bradley 827

			h m s	° ′ ″			
1912							
Nov. 20	Fn.	EII	5 42 36.230	+39 30 11.62	0	6.5	2
22	Fn.	EII	36.291	10.91	0	6.9	2
Dec. 3	R.	WII	36.255	10.74	0	7.0	1½
9	Fn.	WII	36.171	10.77	0	6.9	2
1914							
Jan. 27	Fn.	WI	36.203	11.54	0	7.0	3
31	Wy.	WI	36.175	10.98	0	7.5	3½
Feb. 9	Fn.	EI	36.260	10.72	0	6.5	2
11	Hd.	EI	36.243	11.15	0	7.0	3
Mean	1913.50		5 42 36.228	+39 30 11.05			
Corr			−0.081	−0.27			

μ Columbæ

			h m s	° ′ ″			
1913							
Jan. 19	Hd.	EII	5 42 39.244	−32 20 23.94	0	6.0	2
21	Hd.	EII	39.154	23.71	0	5.5	3½
Feb. 6	R.	WII	39.267	24.54	0	---	5
7	Fn.	WII	39.274	26.52	0	5.8	4
1914							
Feb. 16	Fn.	WI	39.248	25.85	0	6.0	3½
17	Wy.	WI	39.126	25.85	0	6.0	4½
21	Hd.	WI	39.253	24.22	0	6.5	3
26	Fn.	EI	39.232	25.49	0	6.0	3
Mar. 7	Hd.	EI	39.256	24.81	0	6.5	3½
Mean	1913.67		5 42 39.228	−32 20 24.99			
Corr			−0.081	+0.08			

ζ Leporis

			h m s	° ′ ″			
			5 42 52.614	−14 51 17.70			
1912							
Feb. 16	Hd.	EII	0.000	−0.80	I	4.4	-
17	R.	EII	+0.042	−0.21	I	4.4	4
27	Hd.	WII	+0.050	−0.74	I	3.4	3
Mar. 1	Hd.	WII	+0.045	+0.54	I	4.1	2
1915							
Feb. 10	Hd.	EI	-----	−1.67	I	---	2 R.
17	Fn.–Wy.	EI	-----	−0.91	I	---	3 R.
18	Hd.–An.	EI	-----	−0.27	I	3.4	3
19	Fn.–Wy.	EI	-----	+0.37	I	3.9	3
20	An.–Hd.	WI	-----	−2.40	I	---	2½ R.
21	An.–Hd.	WI	-----	−0.67	I	4.9	3
22	Wy.–Fn.	WI	-----	−1.60	0	---	3½ R.
Mar. 1	Wy.–Fn.	WI	-----	−0.46	I	3.9	3
2	Wy.–Fn.	WI	-----	−1.24	0	---	3½ R.
Oct. 25	Wy.	WI	+0.058	−0.95	I	4.4	3½
27	Fn.	WI	+0.026	−1.78	I	3.9	3½
Nov. 1	Hd.	EI	+0.101	−0.50	I	4.4	3½
7	Hd.	EI	+0.065	−0.61	I	3.4	3
Mean	1913.99		+0.048	−0.51			
	1914.37						
Corr			−0.081	−0.11			

κ Orionis

			h m s	° ′ ″			
			5 43 29.273	−9 42 3.66			
1913			s	″ ″			
Jan. 22	Fn.	EII	−0.050	+0.15	I	2.1	2½
25	Hd.	EII	+0.024	−0.28	II	2.6	3
30	Hd.	WII	+0.042	−0.42	I	2.9	2
Feb. 4	Hd.	WII	+0.037	−0.78	I	2.6	3
1914							
Feb. 2	Fn.	WI	+0.040	0.00	I	2.4	3
12	Fn.	EI	+0.032	+0.43	I	2.4	2½
15	Fn.	WI	+0.082	−0.47	I	2.4	2½
25	Hd.	EI	+0.027	+0.03	I	---	2
1916							
July 12	*Hd.*	*EI*	*−0.062*	*−0.25 −0.09*	*0*	---	*3½*
17	*Wy.*	*EI*	*+0.090*	*+0.27 +0.26*	*0*	---	*4*
Aug. 20	*Wy.*	*EI*	-----	*−0.05 −0.11*	*0*	---	*3½*
21	*Fn.*	*EI*	*+0.054*	*+0.27 +0.20*	*0*	---	*3½*
24	*Fn.*	*WI*	*+0.026*	*−0.43 −0.52*	*0*	---	*3*
Sept. 7	*Wy.*	*WI*	*+0.028*	*−0.75 −0.75*	*0*	---	*3½*
10	*Hd.*	*WI*	*+0.074*	*−0.19 −0.31*	*0*	---	*3*
18	*Hd.*	*EI*	*+0.005*	*−0.19 −0.07*	*I*	---	*3½*
24	Wy.	EI	+0.012	-----	I	2.9	3
1917							
Jan. 19	Hd.	EI	+0.044	−0.33	II	2.6	2
Mar. 6	Fn.	WI	+0.058	−0.89	I	2.9	2½
12	Hd.	EI	+0.031	+0.50	II	3.1	3
19	*Fn.*	*EI*	*+0.020*	*+0.16 +0.19*	*0*	---	*3*
20	*Hd.*	*EI*	*+0.048*	*−0.31 −0.37*	*I*	---	*3*
Apr. 10	*Fn.*	*WI*	*+0.019*	*−0.19 −0.17*	*0*	---	*3½*
16	*Fn.*	*WI*	*+0.014*	*−0.68 −0.58*	*0*	---	*3½*
23	*Wy.*	*EI*	*−0.056*	*−0.60 −0.48*	*0*	---	*3½*
1917			s	″ ″			
May 14	*Wy.*	*WI*	*+0.099*	*+0.77 +0.90*	*0*	---	*4*
July 16	*Wy.*	*EII*	-----	*−0.58 −0.58*	*0*	---	*3½*
29	*Wy.*	*EII*	*−0.021*	*+0.95 +1.06*	*0*	---	*3½*
30	*Fn.*	*EII*	*−0.023*	*−0.16 −0.06*	*0*	---	*3½*
Aug. 17	*Wy.*	*WII*	*+0.056*	*−0.29 −0.30*	*0*	---	*3½*
19	*Fn.*	*WII*	*−0.015*	*+0.12 +0.04*	*0*	---	*3½*
20	*Wy.*	*WII*	*−0.006*	*−0.15 −0.26*	*0*	---	*3½*
24	*Wy.*	*EII*	-----	*−0.60 −0.76*	*0*	---	*3½*
Sept. 10	*Fn.*	*EII*	*−0.007*	*−0.43 −0.45*	*0*	---	*3½*
1918							
Jan. 29	Wy.	WII	+0.032	−1.08	II	2.1	2½
Feb. 11	Wy.	WII	+0.025	−0.44	I	---	3½
18	Fn.	EII	−0.011	−1.14	I	2.4	3
21	Fn.	EII	+0.021	----	I	3.4	3
28	Wy.	EII	+0.098	+0.73	I	---	4
Mar. 5	Hd.	EII	+0.010	+0.14	I	2.9	3½
7	Fn.	EII	+0.011	+0.60	I	2.9	2
8	Wy.	EII	+0.040	−0.23	I	2.9	2½
11	Hd.	WII	+0.071	−0.78	I	2.9	3
25	*Fn.*	*WII*	*−0.024*	*−1.01 −0.98*	*0*	---	*3*
26	*Wy.*	*WII*	*+0.060*	*−0.43 −0.32*	*0*	---	*3*
28	*Fn.*	*WII*	*+0.008*	*−1.15 −1.11*	*0*	---	*2½*
June 23	*Wy.*	*WII*	*−0.039*	*−1.56 −1.01*	*0*	---	*3½*
July 8	*Hd.*	*EII*	*+0.036*	*+0.20 +0.44*	*0*	---	*4*
10	*Wy.*	*EII*	*+0.078*	*+1.40 +1.61*	*0*	---	*4*
14	*Wy.*	*EII*	*−0.062*	*+0.14 +0.33*	*0*	---	*4*
15	*Hd.*	*EII*	*+0.009*	*+0.06 +0.17*	*0*	---	*3½*
17	*Wy.*	*EII*	*+0.024*	---- ----	*0*	---	*4*
Aug. 11	*Fn.*	*WII*	*−0.024*	*−0.54 −0.50*	*0*	---	*3½*
12	*Wy.*	*WII*	*−0.001*	*−0.58 −0.57*	*0*	---	*3½*
14	*Fn.*	*WII*	*+0.037*	*−0.38 −0.32*	*0*	---	*3½*
15	*Hd.*	*WII*	*+0.072*	*−0.65 −0.69*	*0*	---	*3½*
Mean	1916.21		+0.032	−0.22			
	1916.08						
Corr			−0.081	−0.14			

Weisse$_1$ V 1048

			h m s	° ′ ″			
1911							
Dec. 5	Hd.	WII	5 44 6.730	−4 7 8.82	0	6.0	3
6	Hd.	WII	6.704	8.91	0	6.5	1
27	R.	EII	6.644	7.68	0	---	2½
1912							
Jan. 9	R.	EII	6.619	7.17	0	6.0	4
1915							
Nov. 15	Wy.	WI	6.607	7.71	0	6.5	3
16	Hd.	WI	6.690	9.97	0	6.5	3
22	Hd.	EI	6.652	9.09	0	6.0	2
24	Wy.	EI	6.642	9.15	0	6.5	2½
Mean	1913.93		5 44 6.661	−4 7 8.56			
Corr			−0.081	−0.16			

ν Aurigæ

			h m s	° ′ ″			
			5 45 15.097	+39 7 22.77			
1912							
Dec. 16	Fn.	EII	+0.031	−0.15	0	---	1½
19	Hd.	EII	0.000	−0.28	I	4.4	2
30	Fn.	WII	+0.022	−0.33	0	---	2
1913							
Jan. 4	Hd.	WII	+0.007	−0.48	I	3.9	2
Nov. 22	R.	WI	+0.058	−0.19	I	3.4	2
Dec. 8	Hd.	EI	+0.079	−0.42	I	3.9	2
11	Hd.	EI	+0.036	−0.28	I	3.9	2
18	Hd.	WI	+0.013	−0.03	I	3.9	2
1915							
Jan. 5	Wy.	EI	+0.036	----	I	3.9	2
25	Fn.	EI	+0.014	----	0	4.5	2½
1916							
Jan. 24	Hd.	EI	+0.084	----	I	3.9	2
26	Wy.	EI	−0.003	----	0	---	2½
Feb. 7	Wy.	EI	−0.010	----	0	---	4
1917							
Jan. 11	Wy.	EI	+0.018	----	I	3.9	2½
Mean	1914.50		+0.028	−0.27			
	1913.46						
Corr			−0.081	−0.27			

Paris 6859 [1]

				h m s	° ′ ″				
1913				5 45 31.174	−14 30 35.23	0	6.0	2	
Jan. 14	R.	WII							
18	Hd.	EII		31.140		0	6.0	3	
19	Hd.	EII		31.160		0	6.0	2	
Feb. 4	Hd.	WII		31.135		0	5.8	3	
Nov. 20	Hd.	WI		31.115		0	6.0	3	
21	Fn.	WI		31.117		0	5.8	2	
Dec. 3	R.	EI		31.153		0	5.5	3	
5	R.	EI		31.151		0	6.0	3	
Mean		1913.48		5 45 31.143	−14 30 35.18				
Corr				−0.081	−0.12				

δ Leporis

				h m s	° ′ ″				
				5 47 27.090	−20 53 12.99				
1911									
Dec. 7	Hd.	WII		−0.010	+0.11	I	3.4	--	
19	Hd.	EII		+0.021	+0.24	I	3.4	--	
25	R.	EII		+0.073	−0.55	I	3.9	1½	
1912									
Jan. 16	R.	WII		+0.020	−0.51	I	4.4	4	
1915									
Feb. 10	Hd.	EI		-----	−0.95	I	4.4	2½	
17	Fn.–Wy.	EI		-----	−0.28	I	3.9	3	
18	Hd.–An.	EI		-----	−0.95	I	---	3	R.
19	Fn.–Wy.	EI		-----	−1.50	0	---	3	R.
20	An.–Hd.	WI		-----	−0.05	I	---	3	
21	An.–Hd.	WI		-----	−2.39	I	---	--	R.
22	Wy.–Fn.	WI		-----	+0.17	0	5.0	3½	
Mar. 1	Wy.–Fn.	WI		-----	−0.01	I	---	3½	R.
2	Wy.–Fn.	WI		-----	−1.07	0	5.0	4	
Sept. 24	Hd.	EI		+0.089	+0.26	I	3.9	2½	
28	Hd.	EI		+0.060	+0.23	I	3.9	3½	
Oct. 9	Hd.	WI		+0.092	−0.14	I	3.9	2½	
11	Hd.	WI		+0.100	−0.73	I	3.9	2	
Mean		1913.87		+0.056	−0.25				
		1914.36							
Corr				−0.081	−0.07				

Bradley 848

				h m s	° ′ ″				
1912				5 47 40.288	+27 35 30.62	I	3.9	4	
Oct. 26	R.	EII							
29	R.	EII		40.236		I	3.9	2	
Nov. 4	R.	WII		40.195		0	---	3½	
5	Fn.	WII		40.173		0	---	2	
1913									
Nov. 4	Fn.	EI		40.195		I	4.4	2	
5	R.	EI		40.239		I	4.4	2½	
10	Hd.	WI		40.210		0	---	3	
17	Hd.	WI		40.232		I	4.4	2	
Mean		1913.35		5 47 40.221	+27 35 30.32				
Corr				−0.081	−0.25				

β Columbæ

				h m s	° ′ ″				
1912				5 47 47.242	−35 48 5.28	I	---	5	
Jan. 10	Hd.	EII							
20	R.	WII		47.298		I	4.4	3	
21	Hd.	WII		47.312		I	2.9	4	
23	Fn.	EII		47.294		0	---	4½	
1915									
Sept. 29	Fn.	EI		47.158		0	4.5	4	
Oct. 12	Fn.	WI		47.239		0	5.0	--	
22	Hd.	WI		47.296		0	---	3½	
28	Wy.	EI		47.288		I	4.9	4	
Mean		1913.92		5 47 47.266	−35 48 5.54				
Corr				−0.081	+0.15				

α Orionis

				h m s	° ′ ″				
1911				5 50 17.957	+7 23 27.47				
				s	″	″			
July 5	*Fn.*	*EII*		*+0.016*	*−1.74*	*−1.68*	*0*	---	--
9	*Fn.*	*WII*		*+0.107*	*−1.25*	*−1.17*	*0*	---	--
10	*Hd.*	*WII*		-----	*−0.90*	*−0.78*	*0*	---	--
21	*R.*	*EII*		*+0.044*	*−2.71*	*−2.69*	*0*	---	--
23	*Fn.*	*EII*		*+0.068*	*−0.44*	*−0.44*	*0*	---	--
25	*R.*	*WII*		*+0.035*	*−0.13*	*−0.11*	*0*	---	--
26	*Fn.*	*WII*		*+0.040*	*−0.68*	*−0.59*	*0*	---	--
27	*Hd.*	*WII*		*+0.032*	*−0.93*	*−0.91*	*0*	---	--
30	*Fn.*	*WII*		*+0.086*	*−0.30*	*−0.25*	*0*	---	--
31	*Hd.*	*WII*		*+0.025*	*−1.09*	*−1.18*	*0*	---	*4*
Aug. 1	*R.*	*WII*		-----	*−1.81*	*−1.90*	*0*	---	--
6	*Fn.*	*WII*		*+0.003*	*+0.59*	*+0.63*	*0*	---	--
9	*R.*	*EII*		*+0.038*	*−0.86*	*−0.91*	*I*	---	--
10	*Fn.*	*EII*		-----	*−0.81*	*−0.89*	*0*	---	--
18	*R.*	*EII*		*+0.061*	*+0.51*	*+0.49*	*II*	---	--
21	*R.*	*EII*		*+0.001*	*−0.43*	*−0.53*	*I*	---	--
22	*Fn.*	*WII*		-----	*+0.12*	*+0.05*	*I*	---	*3*
28	*R.*	*WII*		-----	*+0.09*	*+0.02*	*0*	---	--
Sept. 1	*R.*	*WII*		*+0.038*	*−0.58*	*−0.60*	*0*	---	--
6	*Fn.*	*WII*		*+0.031*	*−0.68*	*−0.68*	*0*	---	*2*
11	*Hd.*	*WII*		*−0.042*	*−0.57*	*−0.61*	*0*	---	*2*
13	*Fn.*	*WII*		-----	*−1.08*	*−1.06*	*I*	---	*2½*
Nov. 18	R.	EII		+0.026		-----	II	0.6	2½
30	R.	WII		+0.018		-----	II	0.6	5
1912									
Feb. 1	Fn.	EII		+0.017		−0.56	0	---	3
5	Fn.	WII		+0.044		+0.81	II	1.2	2½
8	Fn.	EII		+0.037		-----	II	0.8	2½
9	Hd.	EII		+0.064		-----	II	0.6	3
10	R.	EII		+0.038		-----	II	---	1
13	Hd.	EII		+0.045		-----	II	1.1	2
14	R.	EII		+0.043		+0.08	II	---	2½
16	Hd.	EII		+0.004		-----	II	---	1
22	R.	WII		+0.015		-----	II	---	3½
23	Hd.	WII		+0.032		-----	II	1.1	3
Mar. 1	Hd.	WII		+0.022		+1.17	II	1.1	2
2	R.	WII		+0.022		+0.26	II	0.6	3
10	Fn.	EII		+0.071		-----	II	0.7	2
13	Fn.	EII		+0.054		+0.45	II	0.9	2
July 26	*Fn.*	*WII*		*+0.015*	*−1.75*	*−1.70*	*0*	---	*3*
29	*R.*	*WII*		*+0.040*	*−0.27*	*−0.20*	*0*	---	*5*
Aug. 1	*Fn.*	*WII*		-----	*+0.50*	*+0.52*	*0*	---	*3½*
2	*R.*	*EII*		*−0.013*	*−0.33*	*−0.28*	*0*	---	*5*
4	*Fn.*	*EII*		*+0.051*	*+0.18*	*+0.20*	*0*	---	*3*
11	*Fn.*	*EII*		*−0.052*	*−0.01*	*0.00*	*0*	---	*3½*
12	*R.*	*EII*		-----	*+0.63*	*+0.58*	*0*	---	*4*
18	*Fn.*	*WII*		-----	*−1.07*	*−1.11*	*0*	---	*3½*
20	*Fn.*	*WII*		-----	*−0.59*	*−0.64*	*0*	---	*3½*
23	*R.*	*WII*		*+0.027*	*−0.63*	*−0.70*	*I*	---	*2*
29	*Fn.*	*WII*		*+0.035*	*−0.60*	*−0.68*	*0*	---	*2*
Dec. 13	Fn.	EII		+0.071		−0.19	II	1.4	2
14	R.	EII		+0.041		-----	II	1.1	1
16	Fn.	EII		+0.033		-----	II	0.9	1½
21	R.	EII		+0.050		+0.01	II	0.6	2
1913									
Jan. 8	Fn.	WII		+0.026		-----	II	---	4
18	Hd.	EII		+0.029		-----	II	1.1	3
21	Hd.	EII		+0.041		+0.10	II	1.1	3
22	Fn.	EII		+0.001		+0.03	II	0.5	1½
25	Hd.	EII		+0.076		-----	II	2.1	3
26	Hd.	EII		+0.031		+0.14	II	1.1	3
28	R.	EII		+0.024		−0.12	0	---	--
30	Hd.	WII		+0.037		-----	II	2.6	2
Feb. 4	Hd.	WII		+0.045		-----	II	1.1	3
5	Fn.	WII		+0.035		+0.43	0	---	1½
6	R.	WII		+0.032		−0.53	II	1.1	3½
7	Fn.	WII		+0.055		-----	II	0.9	3
10	Fn.	WII		+0.033		−0.40	I	2.2	2½
12	Fn.	WII		+0.055		−0.83	II	1.5	1½
17	Fn.	EII		+0.036		+0.04	II	1.8	3
18	Hd.	EII		+0.008		−0.15	I	0.9	2
19	Fn.	EII		+0.013		−0.49	II	1.1	2
21	Fn	EII		+0.028		+0.22	0	---	2

[1] Double; n. component observed.

				s	"	"			
1913									
July	2	*R.*	*EII*	*+0.068*	*−0.90*	*−0.72*	*0*	---	*5*
	4	*Fn.*	*EII*	*+0.039*	*−1.55*	*−1.45*	*0*	---	*3½*
	6	*Hd.*	*WII*	*+0.080*	*−0.98*	*−0.88*	*0*	---	*3½*
	7	*Fn.*	*WII*	*+0.106*	*−0.29*	*−0.16*	*0*	---	*4*
	9	*Fn.*	*WII*	*+0.110*	*−1.49*	*−1.41*	*0*	---	*4*
	10	*Hd.*	*WII*	*+0.101*	*−0.87*	*−0.64*	*0*	---	*4*
Nov.	21	Fn.	WI	+0.004		----	II	1.1	1½
	22	R.	WI	−0.043		+0.45	II	0.6	2
Dec.	8	Hd.	EI	+0.018		−0.26	II	1.1	3
	9	Fn.	EI	+0.024		−0.68	II	0.6	2
	11	Hd.	EI	+0.015		−0.44	II	1.1	2
	12	Fn.	EI	+0.050		+0.10	II	0.6	3½
	13	R.	EI	+0.023		----	III	---	2
	18	Hd.	WI	+0.018		+0.08	II	1.6	2
	19	Fn.	WI	+0.053		+0.21	II	0.6	1½
	20	R.	WI	+0.017		----	II	1.1	2
	27	Wy.	WI	+0.042		−0.14	II	2.1	2½
1914									
Jan.	13	Wy.	EI	+0.070		+0.92	I	1.4	2½
	21	Hd.	WI	+0.033		----	II	1.1	3
	26	R.	WI	+0.022		----	II	1.1	4
	27	Fn.	WI	+0.051		----	II	1.1	3
	28	Wy.	WI	+0.100		----	II	1.1	3
	29	R.	WI	+0.057		----	II	1.1	3½
	31	Wy.	WI	+0.069		----	II	1.6	3
Feb.	2	Fn.	WI	+0.019		----	I	---	2½
	4	Hd.	EI	+0.032		----	II	---	2
	7	Hd.	EI	+0.005		----	II	1.1	3
	11	Hd.	EI	+0.025		----	II	1.1	3
	12	Fn.	EI	+0.027		----	II	1.1	2
	14	Hd.	WI	−0.001		----	0	---	2
	15	Fn.	WI	+0.044		----	II	1.6	2
	16	Fn.	WI	+0.032		----	II	1.6	2
	17	Wy.	WI	+0.016		−1.24	II	1.1	3
	21	Hd.	WI	+0.021		----	II	1.1	2
	25	Hd.	EI	+0.045		----	II	---	2
	26	Fn.	EI	+0.043		----	II	1.1	2
	27	Wy.	EI	+0.014		−0.41	I	---	2½
Mar.	3	Wy.	WI	+0.010		----	II	1.1	2½
	4	Hd.	WI	+0.049		+0.18	II	1.1	3
	7	Hd.	EI	+0.034		----	II	1.1	2
	8	Hd.	EI	+0.011		−0.39	II	1.1	2
	9	Fn.	WI	+0.025		−0.18	II	---	2
	10	Wy.	WI	+0.123		−0.24	II	1.1	2
June	2	*Fn.*	*EI*	*+0.035*	*−1.20*	*−0.99*	*0*	---	*3½*
	3	*Wy.*	*EI*	*+0.013*	*−0.05*	*0.00*	*0*	---	*3½*
	11	*Fn.*	*EI*	*+0.066*	*−0.32*	*−0.19*	*0*	---	*3½*
	13	*Wy.*	*EI*	*+0.075*	*−0.35*	*+0.04*	*0*	---	*4*
	17	*Wy.*	*EI*	*+0.046*	*−0.40*	*−0.16*	*0*	---	*4*
	22	*Hd.*	*WI*	*−0.084*	----	----	*0*	---	*3½*
	23	*Wy.*	*WI*	*−0.006*	*−2.29*	*−2.04*	*0*	---	*3*
	26	*Wy.*	*WI*	*+0.085*	*−1.14*	*−0.96*	*0*	---	*3½*
	29	*Hd.*	*WI*	*+0.052*	----	----	*I*	---	*3*
July	7	*Fn.*	*WI*	*+0.028*	*−1.05*	*−0.97*	*0*	---	*3½*
	20	*Hd.*	*EI*	*+0.001*	*−0.66*	*−0.59*	*0*	---	*3*
	21	*Fn.*	*EI*	*+0.003*	*+0.23*	*+0.30*	*0*	---	*3½*
	26	*Fn.*	*EI*	*−0.025*	*−1.13*	*−1.10*	*0*	---	*3½*
	28	*Fn.*	*EI*	*−0.027*	*+0.84*	*+0.89*	*0*	---	*3½*
	30	*Fn.*	*EI*	*+0.006*	*−0.15*	*−0.13*	*0*	---	*3½*
Aug.	2	*Fn.*	*EI*	*+0.028*	*−0.14*	*−0.02*	*0*	---	*3½*
	6	*Hd.*	*EI*	*+0.019*	*−0.42*	*−0.47*	*0*	---	*3*
	7	*Wy.*	*EI*	*−0.030*	*−0.35*	*−0.29*	*0*	---	*4*
	10	*Wy.*	*WI*	-----	*−0.17*	*−0.19*	*I*	---	*4*
	12	*Hd.*	*WI*	*−0.017*	*+0.29*	*+0.32*	*I*	---	*2*
	13	*Wy.*	*WI*	*+0.026*	*−1.10*	*−1.17*	*0*	---	*3½*
	16	*Fn.*	*WI*	*+0.002*	*+0.39*	*+0.37*	*0*	---	*3½*
	17	*Wy.*	*WI*	*+0.076*	*−0.72*	*−0.79*	*I*	---	*3½*
	19	*Fn.*	*WI*	*+0.045*	*+0.18*	*+0.15*	*0*	---	*3*
	20	*Wy.*	*WI*	-----	*−0.30*	*−0.32*	*I*	---	*3½*
	21	*An.*	*WI*	*−0.014*	*+0.24*	*+0.26*	*I*	---	*3*
	31	*An.*	*WI*	*−0.052*	*−0.05*	*−0.07*	*II*	---	*2½*
Sept.	1	*Wy.*	*WI*	*+0.017*	*−0.74*	*−0.79*	*I*	---	*3*
	14	*An.*	*EI*	*−0.030*	----	----	*II*	---	*3*
	20	*Hd.*	*EI*	*−0.002*	----	----	*II*	---	*2*
1915									
Jan.	16	An.	WI	+0.046		−0.13	II	---	3
	25	Fn.	EI	+0.038		----	II	1.1	2½
Apr.	7	*Wy.*	*EI*	*−0.006*	----	----	*I*	---	*3*

				s	"	"			
1915									
May	25	*Fn.*	*WI*	*−0.005*	----	----	*0*	---	*4*
	31	*Wy.*	*WI*	*+0.032*	*+0.27*	*+0.50*	*0*	---	*4*
June	8	*Hd.*	*EI*	*+0.034*	*−0.77*	*−0.64*	*0*	---	*3½*
	10	*Fn.*	*EI*	*−0.026*	*−0.08*	*+0.14*	*0*	---	*4*
	11	*Hd.*	*WI*	-----	*−0.64*	*−0.55*	*0*	---	*3½*
	14	*Fn.*	*WI*	-----	*−1.14*	*−0.99*	*0*	---	*3½*
	15	*Hd.*	*WI*	-----	*−0.41*	*−0.27*	*0*	---	*3½*
	24	*Wy.*	*EI*	*+0.006*	*+0.44*	*+0.58*	*0*	---	*4*
	27	*Wy.*	*EI*	*+0.030*	*+0.41*	*+0.79*	*0*	---	*4½*
	28	*Hd.*	*EI*	*+0.031*	*−0.18*	*−0.07*	*0*	---	*5½*
July	5	*Fn.*	*WI*	*−0.085*	*−0.89*	*−0.71*	*0*	---	*4½*
	8	*Fn.*	*WI*	*−0.033*	*−0.49*	*−0.37*	*0*	---	*3½*
	13	*An.*	*WI*	*−0.019*	*−0.02*	*+0.08*	*0*	---	*3½*
	15	*Fn.*	*WI*	*+0.094*	*−0.88*	*−0.80*	*0*	---	*3½*
	18	*Fn.*	*EI*	-----	*−1.48*	*−1.41*	*0*	---	--
	20	*An.*	*EI*	*+0.004*	*−0.12*	*−0.02*	*0*	---	*3½*
	21	*Fn.*	*EI*	*+0.049*	*−0.81*	*−0.72*	*0*	---	*4*
	23	*An.*	*EI*	*+0.016*	*+0.62*	*+0.73*	*0*	---	*3½*
	25	*Fn.*	*EI*	*+0.086*	*−0.12*	*−0.01*	*0*	---	*3½*
	29	*Hd.*	*EI*	-----	*−0.38*	*−0.43*	*0*	---	*3*
	30	*An.*	*EI*	*−0.006*	*−0.87*	*−0.84*	*0*	---	*4*
Aug.	1	*Fn.*	*EI*	-----	*−0.82*	*−0.79*	*0*	---	*3½*
	3	*Hd.*	*EI*	-----	*−0.70*	*−0.68*	*0*	---	*3½*
	12	*An.*	*EI*	*−0.018*	*−0.55*	*−0.56*	*0*	---	*3½*
	17	*Wy.*	*WI*	*+0.022*	*−0.21*	*−0.20*	*0*	---	*3½*
	18	*Fn.*	*WI*	*+0.054*	*−0.62*	*−0.62*	*0*	---	*3½*
	19	*An.*	*WI*	-----	*−0.05*	*−0.09*	*I*	---	*3*
	22	*Wy.*	*WI*	*+0.044*	*+0.43*	*+0.40*	*I*	---	*3½*
	23	*Hd.*	*WI*	-----	*−0.60*	*−0.64*	*0*	---	*3*
	24	*Wy.*	*WI*	*+0.074*	*−0.28*	*−0.37*	*0*	---	*3½*
	25	*Hd.*	*WI*	*+0.038*	*−0.72*	*−0.72*	*I*	---	*2*
Nov.	16	Hd.	WI	+0.027		----	II	1.6	3
	17	Fn.	WI	+0.035		----	II	1.1	2
	22	Hd.	EI	+0.025		----	II	1.1	2
	23	Fn.	EI	+0.008		----	II	---	2½
	24	Wy.	EI	+0.024		----	II	1.6	2½
	27	Wy.	EI	+0.052		−0.09	II	1.1	2½
	29	Wy.	EI	+0.048		+0.01	II	1.1	2
	30	Hd.	EI	+0.012		----	II	1.1	2½
Dec.	2	Hd.	EI	+0.081		----	I	---	3
	4	Fn.	EI	+0.016		----	II	2.1	2
	6	Hd.	WI	+0.053		----	II	1.1	2
	8	Wy.	WI	+0.029		−0.35	II	1.1	3
	9	Fn.	WI	+0.048		----	I	---	2½
	10	Hd.	WI	+0.014		−0.29	II	1.1	2
	14	Wy.	WI	+0.020		----	II	1.6	3
	21	Hd.	WI	+0.050		----	I	---	2
	22	Fn.	WI	+0.007		----	II	1.6	2½
1916									
Feb.	10	Fn.	WI	+0.024		----	II	1.6	2
	16	Wy.	WI	+0.042		−0.18	0	---	3
Mar.	4	Fn.	WI	+0.010		----	II	1.6	2
	11	Wy.	WI	−0.002		----	II	1.6	2
June	22	*Hd.*	*WI*	*+0.016*	*−0.55*	*−0.38*	*0*	---	*3½*
	25	*Hd.*	*WI*	*+0.028*	*−0.71*	*−0.60*	*0*	---	*3½*
	28	*Hd.*	*WI*	*−0.003*	*−1.26*	*−1.09*	*0*	---	*3½*
July	2	*Wy.*	*WI*	*+0.002*	*−1.47*	*−1.34*	*0*	---	*4*
	5	*Wy.*	*EI*	*+0.014*	*−0.54*	*−0.36*	*0*	---	*4*
	6	*Fn.*	*EI*	*+0.106*	*+0.01*	*+0.14*	*0*	---	*3½*
	12	*Hd.*	*EI*	*−0.021*	*−1.01*	*−0.94*	*0*	---	*3½*
	17	*Wy.*	*EI*	*+0.026*	*−0.80*	*−0.79*	*0*	---	*3½*
	19	*Hd.*	*EI*	*+0.034*	*−1.13*	*−1.07*	*0*	---	*3*
	20	*Wy.*	*EI*	*+0.008*	*−0.55*	*−0.50*	*0*	---	*3½*
	26	*Fn.*	*WI*	*−0.005*	*−0.92*	*−0.82*	*0*	---	*3½*
Aug.	17	*Wy.*	*EI*	*+0.073*	*+0.79*	*+0.74*	*0*	---	*4*
	20	*Wy.*	*EI*	*−0.006*	*−0.51*	*−0.53*	*0*	---	*3½*
	21	*Fn.*	*EI*	*+0.067*	*−0.22*	*−0.24*	*0*	---	*3½*
	24	*Fn.*	*WI*	*+0.008*	*−0.33*	*−0.36*	*0*	---	*3*
	31	*Fn.*	*WI*	*−0.035*	----	----	*0*	---	*3*
Sept.	7	*Wy.*	*WI*	*+0.018*	*+0.01*	*+0.01*	*I*	---	*3½*
	10	*Hd.*	*WI*	*+0.028*	*−0.40*	*−0.47*	*II*	---	*3*
	18	*Hd.*	*EI*	-----	*+0.50*	*+0.57*	*I*	---	*3½*
	19	*Wy.*	*EI*	*−0.020*	*−0.45*	*−0.46*	*I*	---	*3*
	21	*Hd.*	*EI*	*+0.005*	*−0.56*	*−0.47*	*II*	---	*2½*
	24	*Wy.*	*EI*	*−0.001*	*+0.54*	*+0.54*	*II*	---	*3*
1917									
Jan.	11	Wy.	EI	−0.005		+0.21	II	2.1	3
	19	Hd.	EI	−0.002		+0.36	II	1.1	2

				s	″	″			
1917									
Feb.	26	Fn.	WI	-----		−1. 26	I	1. 9	3
Mar.	6	Fn.	WI	+0. 007		----	I	---	2
	9	Fn.	WI	+0. 066		−0. 41	I	1. 9	2½
	19	*Fn.*	*EI*	*−0. 024*	*−0. 17*	*−0. 16*	*I*	---	*2*
	20	*Hd.*	*EI*	*+0. 025*	*−0. 09*	*−0. 15*	*II*	---	*3*
	29	*Wy.*	*WI*	*+0. 017*	*−0. 76*	*−0. 71*	*I*	---	*3*
Apr.	*10*	*Fn.*	*WI*	*+0. 050*	*−0. 83*	*−0. 81*	*0*	---	*3½*
	16	*Fn.*	*WI*	*+0. 035*	*−0. 68*	*−0. 63*	*0*	---	*3½*
	17	*Wy.*	*WI*	*+0. 038*	*−0. 58*	*−0. 56*	*0*	---	*3½*
	23	*Wy.*	*EI*	-----	*−0. 48*	*−0. 43*	*0*	---	*3½*
May	*3*	*Hd.*	*EI*	*−0. 016*	*−0. 48*	*−0. 37*	*0*	---	*4*
	14	*Wy.*	*WI*	*+0. 078*	*−1. 24*	*−1. 17*	*0*	---	*3½*
	15	*Hd.*	*WI*	*+0. 020*	*−0. 69*	*−0. 56*	*0*	---	*3*
	18	*Hd.*	*WI*	*+0. 062*	*−1. 40*	*−1. 40*	*0*	---	*3½*
June	*24*	*Wy.*	*WII*	*−0. 024*	*−0. 60*	*−0. 47*	*0*	---	*4*
July	*16*	*Wy.*	*EII*	-----	*−1. 25*	*−1. 25*	*0*	---	*3½*
	29	*Wy.*	*EII*	*+0. 050*	*−0. 76*	*−0. 69*	*0*	---	*3½*
	30	*Fn.*	*EII*	*+0. 003*	*−0. 88*	*−0. 82*	*0*	---	*3½*
Aug.	*12*	*Fn.*	*WII*	*+0. 040*	*+0. 15*	*+0. 13*	*0*	---	*3*
	13	*Hd.*	*WII*	*+0. 010*	*−0. 10*	*−0. 13*	*I*	---	*3*
	17	*Wy.*	*WII*	*+0. 059*	*−0. 19*	*−0. 18*	*I*	---	*3*
	19	*Fn.*	*WII*	*−0. 004*	*−0. 01*	*−0. 05*	*0*	---	*3½*
	24	*Wy.*	*EII*	*+0. 012*	*−0. 19*	*−0. 25*	*0*	---	*3½*
Sept.	*10*	*Fn.*	*EII*	*−0. 009*	----	----	*I*	---	*3*
	12	*Hd.*	*EII*	*+0. 026*	*−0. 31*	*−0. 29*	*II*	---	*3*
	16	*Hd.*	*EII*	*+0. 006*	*−0. 77*	*−0. 74*	*II*	---	*3*
1918									
Feb.	11	Wy.	WII	+0. 027		+0. 29	II	2. 1	3
	14	Wy.	WII	+0. 062		0	---	---	3½
	15	Fn.	WII	+0. 043		−1. 08	II	1. 6	3
	18	Fn.	EII	+0. 022		----	II	2. 1	2½
	21	Fn.	EII	+0. 022		----	I	1. 9	2½
	28	Wy.	EII	+0. 035		+0. 42	II	2. 1	4
Mar.	5	Hd.	EII	+0. 010		+0. 25	II	2. 1	3
	7	Fn.	EII	+0. 039		−0. 38	I	---	2
	8	Wy.	EII	+0. 039		----	II	1. 6	2½
	11	Hd.	WII	+0. 026		−0. 54	II	1. 6	2
	18	*Wy.*	*WII*	*0. 000*	*−0. 35*	*−0. 24*	*I*	---	*3*
	23	*Fn.*	*WII*	*−0. 001*	----	----	*0*	---	*3*
	25	*Fn.*	*WII*	*−0. 002*	*−1. 17*	*−1. 16*	*I*	---	*3*
	26	*Wy.*	*WII*	*+0. 076*	*−0. 01*	*+0. 05*	*I*	---	*3*
	28	*Fn.*	*WII*	*+0. 012*	*−1. 23*	*−1. 22*	*I*	---	*2*
Apr.	*5*	*Fn.*	*EII*	*+0. 014*	*−0. 07*	*−0. 02*	*I*	---	*3*
June	*23*	*Wy.*	*WII*	*−0. 059*	*−1. 41*	*−1. 11*	*0*	---	*3½*
July	*1*	*Hd.*	*WII*	*+0. 046*	*−1. 17*	*−1. 05*	*0*	---	*4*
	8	*Hd.*	*EII*	*+0. 019*	*−1. 16*	*−1. 02*	*I*	---	*3½*
	10	*Wy.*	*EII*	*+0. 045*	*−0. 28*	*−0. 16*	*0*	---	*4*
	14	*Wy.*	*EII*	*−0. 029*	*+0. 38*	*+0. 48*	*0*	---	*4*
	15	*Hd.*	*EII*	*+0. 045*	*−1. 09*	*−1. 03*	*0*	---	*3½*
	17	*Wy.*	*EII*	*+0. 047*	*−0. 29*	*−0. 18*	*0*	---	*4*
	22	*Fn.*	*EII*	*+0. 090*	*−0. 03*	*+0. 08*	*0*	---	*3½*
	24	*Fn.*	*EII*	*+0. 001*	*−0. 82*	*−0. 73*	*0*	---	*3½*
Aug.	*1*	*Hd.*	*WII*	*+0. 053*	*−0. 74*	*−0. 73*	*0*	---	*3½*
	7	*Wy.*	*WII*	*−0. 024*	*−0. 89*	*−0. 84*	*0*	---	*3½*
	8	*Hd.*	*WII*	*+0. 037*	*−0. 15*	*−0. 08*	*0*	---	*3½*
	11	*Fn.*	*WII*	*+0. 073*	*−0. 32*	*−0. 30*	*0*	---	*3½*
	12	*Wy.*	*WII*	*+0. 010*	*−0. 81*	*−0. 84*	*I*	---	*3½*
	14	*Fn.*	*WII*	*−0. 002*	*+0. 02*	*+0. 06*	*0*	---	*3½*
	15	*Hd.*	*WII*	*+0. 045*	*−0. 59*	*−0. 60*	*I*	---	*3½*
Mean			1914. 44	+0. 033		−0. 09			
			1914. 49						
Corr				−0. 081		−0. 20			

B. D.+11° 975

				h	m	s	°	′	″			
1912												
Nov.	9	Fn.	WII	5	51	47. 736	+11	30	36. 10	0	6. 4	2½
	12	R.	EII			47. 750			35. 94	0	5. 5	2
	16	R.	EII			47. 737			36. 24	0	6. 5	2½
Dec.	3	R.	WII			47. 750			36. 37	0	7. 0	1½
1913												
Nov.	20	Hd.	WI			47. 750			36. 09	0	6. 0	3
	21	Fn.	WI			47. 800			35. 48	0	6. 5	1½
Dec.	3	R.	EI			47. 745			35. 73	0	5. 5	2
	5	R.	EI			47. 771			35. 79	0	5. 5	2½
Mean			1913. 40	5	51	47. 755	+11	30	35. 97			
Corr						−0. 081			−0. 21			

δ Aurigæ

				h	m	s	°	′	″				
				5	52	7. 086	+54	16	43. 37				
1912													
Nov.	20	Fn.	EII			−0. 063			+0. 16	I	2. 4	2	
	22	Fn.	EII			−0. 006			+0. 03	I	3. 4	1½	
Dec.	9	Fn.	WII			−0. 100			+0. 04	I	3. 7	1½	
	30	Fn.	WII			−0. 087			−0. 22	I	3. 9	2	
1914													
Jan.	27	Fn.	WI			−0. 059			+0. 33	I	4. 4	3	
	29	R.	WI			−0. 054			+0. 02	I	---	4	
Feb.	4	Hd.	EI			−0. 062			−0. 81	0	---	2	
	7	Hd.	EI			−0. 069			−0. 55	I	3. 4	3	
1915													
Feb.	10	Hd.	EI			-----			−0. 49	I	---	2	R
	17	Fn.–Wy.	EI			-----			−0. 65	I	---	2	R.
	18	Hd.–An.	EI			-----			0. 00	I	3. 4	2½	
	19	Fn.–Wy.	EI			-----			−0. 30	I	3. 4	2½	
	21	An.–Hd.	WI			-----			−0. 35	0	---	2½	R.
	21	An.–Hd.	WI			-----			+0. 10	I	---	2½	
	22	Wy.–Fn.	WI			-----			−0. 65	I	---	3	R.
Mar.	1	Wy.–Fn.	WI			-----			−0. 31	I	3. 4	2½	
	2	Wy.–Fn.	WI			-----			+0. 57	0	---	--	R.
Mean			1913. 51			−0. 062			−0. 13				
			1914. 05										
Corr						−0. 081			−0. 30				

η Leporis

				h	m	s	°	′	″			
				5	52	18. 324	−14	11	0. 32			
1911												
Dec.	5	Hd.	WII			+0. 082			−0. 39	I	2. 9	4
	6	Hd.	WII			+0. 034			−0. 13	I	3. 4	2
	19	Hd.	EII			+0. 049			+0. 22	I	3. 2	3½
	25	R.	EII			+0. 072			−0. 14	I	2. 9	2
1915												
Nov.	1	Hd.	EI			+0. 071			−0. 79	0	---	3½
	16	Hd.	WI			+0. 071			−1. 16	I	4. 4	3
	17	Fn.	WI			+0. 048			−0. 20	I	3. 9	2½
	22	Hd.	EI			−0. 023			−0. 70	I	3. 9	2
Mean			1913. 91			+0. 050			−0. 41			
Corr						−0. 081			−0. 12			

B. D.+38° 1341

				h	m	s	°	′	″			
1917												
Mar.	6	Fn.	WI	5	52	-----	+38	52	58. 74	0	7. 5	2
	8	Wy.	WI			-----			58. 90	0	7. 0	3
	12	Hd.	EI			-----			58. 25	0	7. 5	2½
	15	Wy.	EI			-----			58. 46	0	---	3
Mean			1917. 19	5	52	-----	+38	52	58. 59			
Corr						-----			−0. 27			

Groombridge 1030

				h	m	s	°	′	″			
1911												
Dec.	7	Hd.	WII	5	52	44. 57	+75	35	2. 36	0	6. 5	--
1912												
Jan.	9	R.	EII			44. 74			2. 14	0	6. 0	3
	10	Hd.	EII			44. 64			2. 60	0	---	--
	16	R.	WII			44. 73			1. 41	0	7. 0	1½
1915												
Nov.	23	Fn.	EI			44. 55			1. 76	0	---	2½
	24	Wy.	EI			44. 61			2. 29	0	6. 5	2½
Dec.	14	Wy.	WI			44. 78			2. 88	0	6. 5	3
	21	Hd.	WI			44. 71			2. 79	0	---	2
	22	Fn.	WI			44. 67			3. 25	0	6. 5	2½
Mean			1914. 19	5	52	44. 667	+75	35	2. 39			
Corr						−0. 081			−0. 35			

Groombridge 1030 s. p.

			h m s	° ′ ″			
1911							
July 22	R.	EII	5 52 44.56	+75 34 60.49	0	6.5	3
24	Fn.	EII	44.65	59.56	0	---	4
27	Fn.	WII	44.60	61.43	0	---	--
28	Hd.	WII	44.63	61.95	0	---	3
1915							
July 11	Fn.	WI	44.60	61.87	0	7.0	4
14	An.	WI	-----	61.20	0	---	3½
23	Hd.	EI	44.69	61.12	0	7.0	3
Aug. 7	An.	EI	-----	61.84	0	6.5	3½
Mean------	1912.89		5 52 44.622	+75 35 1.18			
	1913.56						
Corr----------			−0.081	+0.52			

β Aurigæ

			h m s	° ′ ″			
			5 52 55.637	+44 56 21.07			
1912							
Dec. 14	R.	EII	−0.032	+1.13	I	---	1
1913							
Jan. 4	Hd.	WII	−0.064	+0.43	II	2.1	2
8	Fn.	WII	−0.027	−0.64	I	1.9	3
18	Hd.	EII	−0.005	+0.22	II	2.1	2
1914							
Jan. 31	Wy.	WI	−0.047	−0.22	I	2.9	3
Feb. 2	Fn.	WI	−0.045	−0.09	I	---	2½
11	Hd.	EI	−0.018	−0.18	II	2.6	2½
12	Fn.	EI	−0.048	−0.03	I	2.4	1½
1915							
Jan. 5	Wy.	EI	+0.012	----	II	2.6	2½
25	Fn.	EI	−0.033	----	II	2.1	2½
Mean------	1913.85		−0.031	+0.08			
	1913.56						
Corr----------			−0.081	−0.28			

θ Aurigæ [1]

			h m s	° ′ ″			
			5 53 35.062	+37 12 25.11			
1912							
Oct. 26	R.	EII	−0.005	+1.16	II	2.6	3
29	R.	EII	+0.032	+0.52	II	2.6	2½
Nov. 4	R.	WII	−0.038	+0.47	I	2.9	4
5	Fn.	WII	−0.063	+0.73	I	2.6	2
1913							
Nov. 4	Fn.	EI	−0.032	+0.36	I	2.4	2
5	R.	EI	−0.001	+0.19	II	2.6	3
10	Hd.	WI	+0.013	+0.43	0	---	3
17	Hd.	WI	+0.004	+1.00	II	2.6	2
1917							
Jan. 28	Hd.	EI	−0.010	----	I	---	2
Mean------	1913.76		−0.011	+0.61			
	1913.35						
Corr----------			−0.081	−0.26			

B. D.−18° 1247

			h m s	° ′ ″			
1912							
Feb. 17	R.	EII	5 53 36.024	−18 3 54.09	0	7.5	4½
27	Hd.	WII	36.068	54.33	0	7.0	3
28	R.	WII	36.010	52.62	0	---	--
Mar. 10	Fn.	EII	36.005	54.21	0	7.0	3½
1915							
Nov. 30	Hd.	EI	36.033	54.29	0	7.0	3
Dec. 2	Hd.	EI	36.023	53.70	0	---	3
4	Fn.	EI	36.006	53.61	0	7.0	3
6	Hd.	WI	36.088	54.03	0	7.0	3
9	Fn.	WI	36.058	53.99	0	---	3
Mean------	1914.25		5 53 36.035	−18 3 53.87			
Corr----------			−0.081	−0.09			

Bradley 870

			h m s	° ′ ″			
1913							
Jan. 25	Hd.	EII	5 54 11.955	+0 32 42.21	0	6.0	3
26	Hd.	EII	11.919	42.38	0	5.5	3
30	Hd.	WII	11.922	43.16	0	---	2
Feb. 7	Fn.	WII	11.967	42.77	0	6.2	3½
1914							
Feb. 15	Fn.	WI	11.971	42.18	0	6.0	2
16	Fn.	WI	11.914	42.41	0	5.5	2
25	Hd.	EI	11.935	43.08	0	---	3
26	Fn.	EI	11.934	43.46	0	6.0	2½
Mean------	1913.61		5 54 11.940	+0 32 42.71			
Corr----------			−0.081	−0.18			

Weisse$_2$ V 1660

			h m s	° ′ ″			
1912							
Jan. 22	Hd.	WII	5 54 19.402	+33 7 51.87	0	7.0	3
27	R.	EII	19.361	51.47	0	7.0	2
Feb. 8	Fn.	EII	19.393	51.22	0	6.8	2½
Mar. 1	Hd.	WII	19.405	52.29	0	6.5	2
1915							
Nov. 27	Wy.	EI	19.394	51.60	0	7.0	2
29	Wy.	EI	19.393	51.53	0	7.0	2
Dec. 8	Wy.	WI	19.391	51.69	0	7.0	2½
10	Hd.	WI	19.382	51.67	0	7.0	2
Mean------	1914.01		5 54 19.390	+33 7 51.67			
Corr----------			−0.081	−0.26			

Bradley 874

			h m s	° ′ ″			
1912							
Nov. 18	Fn.	EII	5 54 47.971	−9 33 50.34	0	5.5	2
20	Fn.	EII	47.884	49.90	0	5.3	3½
1913							
Jan. 14	R.	WII	47.989	49.78	0	---	--
Feb. 4	Hd.	WII	47.960	50.10	0	5.5	3½
1914							
Feb. 17	Wy.	WI	47.974	50.97	0	6.0	3
21	Hd.	WI	47.996	50.57	0	6.0	3
27	Wy.	EI	47.894	49.81	0	6.0	2
Mar. 7	Hd.	EI	47.926	48.98	0	6.0	2½
Mean------	1913.56		5 54 47.949	−9 33 50.06			
Corr----------			−0.081	−0.14			

Bradley 871

			h m s	° ′ ″			
1913							
Jan. 21	Hd.	EII	5 56 15.536	+22 23 56.89	0	7.0	2
22	Fn.	EII	15.525	56.45	0	6.5	1½
Feb. 6	R.	WII	15.558	56.74	0	6.5	3
10	Fn.	WII	15.557	56.68	0	---	3
12	Fn.	WII	15.570	56.50	0	6.5	1½
Nov. 22	R.	WI	15.548	57.00	0	6.0	3½
Dec. 8	Hd.	EI	15.562	56.58	0	6.5	2
9	Fn.	EI	15.549	56.62	0	6.5	2
11	Hd.	EI	15.519	56.91	0	6.5	2
18	Hd.	WI	15.547	57.27	0	6.5	2
Mean------	1913.51		5 56 15.547	+22 23 56.76			
Corr----------			−0.081	−0.23			

Bradley 868

			h m s	° ′ ″			
1912							
Nov. 12	R.	EII	5 56 48.701	+42 54 54.07	0	6.5	2
16	R.	EII	48.645	55.03	0	6.0	2
Dec. 3	R.	WII	48.666	53.77	0	6.5	1½
30	Fn.	WII	48.663	55.14	0	6.5	2
1913							
Nov. 20	Hd.	WI	48.670	54.70	0	6.5	3
21	Fn.	WI	48.728	54.87	0	6.5	1½
Dec. 3	R.	EI	48.614	53.76	0	6.0	2
5	R.	EI	48.662	53.60	0	6.0	2
Mean------	1913.41		5 56 48.669	+42 54 54.37			
Corr----------			−0.081	−0.28			

[1] Double; s. fol. component observed.

Bradley 864

			h	m	s	°	′	″			
1912											
Feb. 14	R.	EII	5	57	20.873	+51	34	35.10	0	7.0	1
16	Hd.	EII			20.819			35.25	0	---	1
27	Hd.	WII			20.921			34.71	0	6.0	3
28	R.	WII			20.886			35.22	0	6.0	2
1915											
Oct. 23	Wy.	WI			20.873			35.65	0	6.5	3
25	Wy.	WI			20.855			34.82	0	6.5	3
30	Fn.	EI			20.932			36.33	0	6.5	2
Nov. 1	Hd.	EI			20.904			35.65	0	6.5	3
Mean	1913.98		5	57	20.883	+51	34	35.34			
Corr					−0.081			−0.29			

μ Orionis

			h	m	s	°	′	″			
1912											
Nov. 22	Fn.	EII	5	57	25.946	+9	38	52.39	0	5.0	1½
Dec. 12	R.	EII			25.927			52.48	I	4.4	3
1913											
Jan. 4	Hd.	WII			25.895			51.59	I	4.4	2½
9	R.	WII			25.911			51.83	I	4.4	2½
Dec. 12	Fn.	EI			25.867			52.34	0	5.0	3½
13	R.	EI			25.909			52.26	I	---	2
19	Fn.	WI			25.877			52.31	0	5.0	1½
20	R.	WI			25.892			52.71	I	4.4	2
Mean	1913.46		5	57	25.903	+9	38	52.24			
Corr					−0.081			−0.21			

Lacaille 2096

			h	m	s	°	′	″			
1911											
Dec. 5	Hd.	WII	5	57	33.723	−25	25	7.18	0	6.0	4
6	Hd.	WII			33.834			7.75	0	6.2	--
19	Hd.	EII			33.764			6.92	0	6.0	3
25	R.	EII			33.757			7.45	0	6.0	4
1915											
Oct. 27	Fn.	WI			33.724			7.74	0	6.5	3½
Nov. 5	Fn.	EI			33.804			7.70	0	7.0	3
15	Wy.	WI			33.802			7.23	0	6.5	3½
22	Hd.	EI			33.755			8.10	0	6.5	3
Mean	1913.90		5	57	33.770	−25	25	7.51			
Corr					−0.081			−0.03			

1 Geminorum

			h	m	s	°	′	″			
			5	58	38.974	+23	16	7.47			
1912											
Feb. 9	Hd.	EII			+0.027			−0.26	0	---	3
10	R.	EII			+0.041			+0.44	0	---	1
22	R.	WII			−0.042			−0.05	0	---	4
23	Hd.	WII			−0.007			+0.30	I	4.4	2
1915											
Oct. 21	Fn.	WI			+0.030			+0.36	0	5.0	3
22	Hd.	WI			−0.008			+0.29	0	---	3
28	Wy.	EI			−0.036			+0.29	I	4.4	3
29	Hd.	EI			−0.009			−0.14	I	4.4	3
Mean	1913.97				0.000			+0.15			
Corr					−0.081			−0.24			

Lalande 11544

			h	m	s	°	′	″			
1911											
Dec. 7	Hd.	WII	6	1	43.022	+26	41	32.03	0	7.0	--
1912											
Jan. 9	R.	EII			43.038			31.88	0	7.5	3
10	Hd.	EII			43.034			31.61	0	6.5	--
19	Fn.	WII			43.008			31.32	0	7.0	2
1915											
Nov. 5	Fn.	EI			43.039			31.78	0	7.5	2½
9	Wy.	WI			43.003			31.39	0	7.0	2
15	Wy.	WI			42.987			32.03	0	7.0	2½
22	Hd.	EI			43.049			31.26	0	7.0	2
Mean	1913.94		6	1	43.022	+26	41	31.66			
Corr					−0.081			−0.24			

θ Leporis

			h	m	s	°	′	″			
1912											
Oct. 29	R.	EII	6	2	4.906	−14	55	35.71	I	4.4	2
Nov. 5	Fn.	WII			4.941			36.39	0	---	3½
12	R.	EII			4.975			36.52	0	5.5	2½
Dec. 3	R.	WII			4.946			36.74	0	5.5	2
1913											
Nov. 4	Fn.	EI			4.970			35.25	0	5.0	3½
5	R.	EI			4.971			34.81	I	---	4
17	Hd.	WI			4.898			36.22	I	4.9	3
20	Hd.	WI			4.848			35.93	I	4.9	3
Mean	1913.37		6	2	4.932	−14	55	35.95			
Corr					−0.081			−0.11			

ν Orionis

			h	m	s	°	′	″				
			6	2	26.031	+14	46	47.47				
1912												
Jan. 22	Hd.	WII			−0.001			−0.26	I	4.4	3	
24	R.	EII			+0.039			−0.09	0	---	4	
27	R.	EII			−0.036			−0.46	I	4.4	1	
Feb. 27	Hd.	WII			+0.019			−0.39	I	4.4	2	
1915												
Feb. 10	Hd.	EI			-----			−0.77	0	---	2	R.
17	Fn.–Wy.	EI			-----			−0.72	0	---	3	R.
18	Hd.–An.	EI			-----			−0.04	I	3.9	2½	
19	Fn.–Wy.	EI			-----			+0.34	I	3.9	2½	
20	An.–Hd.	WI			-----			+0.71	0	---	2½	R.
21	An.–Hd.	WI			-----			+0.37	I	---	3	
22	Wy.–Fn.	WI			-----			−0.29	0	---	3½	R.
Mar. 1	Wy.–Fn.	WI			-----			+0.22	I	4.4	3	
2	Wy.–Fn.	WI			-----			+0.64	0	---	3½	R.
Oct. 27	Fn.	WI			−0.047			−0.63	I	4.4	3	
28	Wy.	EI			−0.035			−0.13	0	5.0	3	
Nov. 1	Hd.	EI			−0.024			+0.04	0	---	3	
16	Hd.	WI			−0.041			−0.72	I	4.4	3	
Mean	1913.96				−0.016			−0.15				
	1914.36											
Corr					−0.081			−0.22				

Lalande 11630

			h	m	s	°	′	″			
1912											
Nov. 16	R.	EII	6	2	26.737	−3	19	51.35	0	7.0	2½
18	Fn.	EII			26.738			51.45	0	6.8	2½
Dec. 9	Fn.	WII			26.789			51.89	0	7.3	2½
22	R.	WII			26.722			51.30	0	7.5	2½
1913											
Dec. 11	Hd.	EI			26.719			51.53	0	7.5	2
12	Fn.	EI			26.719			52.78	0	7.5	3½
18	Hd.	WI			26.729			51.44	0	7.5	3
19	Fn.	WI			26.727			51.88	0	7.5	2½
Mean	1913.44		6	2	26.735	−3	19	51.70			
Corr					−0.081			−0.17			

Radcliffe 1890, 1512

			h	m	s	°	′	″			
1911											
Dec. 5	Hd.	WII	6	3	9.129	−21	48	4.57	0	5.8	--
6	Hd.	WII			9.190			4.50	0	5.5	--
19	Hd.	EII			9.078			4.53	0	6.0	--
25	R.	EII			9.116			4.67	0	6.0	2½
1915											
Oct. 23	Wy.	WI			9.141			4.25	0	6.5	3½
25	Wy.	WI			9.122			5.04	0	6.5	4
29	Hd.	EI			9.052			4.81	0	6.0	3½
30	Fn.	EI			9.069			5.35	0	6.0	3
Mean	1913.89		6	3	9.112	−21	48	4.72			
Corr					−0.081			−0.06			

36 Camelopardalis

			h	m	s	°	′	″			
1912											
Nov. 20	Fn.	EII	6	3	47.85	+65	44	14.88	0	5.4	2
Dec. 12	R.	EII			47.92			15.56	0	6.0	1½
30	Fn.	WII			47.87			14.81	0	5.5	2
1913											
Jan. 4	Hd.	WII			47.83			14.57	0	5.8	3
Nov. 21	Fn.	WI			47.78			14.55	0	6.0	1½
22	R.	WI			47.89			15.30	I	4.4	2
Dec. 3	R.	EI			47.81			14.53	I	4.4	1½
5	R.	EI			47.80			14.63	0	5.5	2½
8	Hd.	EI			47.90			14.27	0	6.0	3
Mean	1913.49		6	3	47.850	+65	44	14.79			
Corr					−0.081			−0.33			

Bradley 886 [1]

			h	m	s	°	′	″			
1912											
Dec. 13	Fn.	EII	6	4	42.970	+48	43	49.35	0	6.2	2
20	Fn.	EII			42.948			49.40	0	6.4	2
1913											
Jan. 8	Fn.	WII			43.021			48.19	0	6.3	3½
9	R.	WII			42.989			48.60	0	6.0	2
Dec. 13	R.	EI			42.961			48.06	0	6.0	2
20	R.	WI			42.961			49.15	0	---	1½
29	Hd.	WI			42.961			49.19	0	6.5	2
1914											
Jan. 5	Hd.	EI			42.964			48.65	0	6.0	3
Mean	1913.49		6	4	42.972	+48	43	48.82			
Corr					−0.081			−0.29			

Bradley 900

			h	m	s	°	′	″			
1913											
Jan. 18	Hd.	EII	6	6	41.505	+19	48	40.70	0	6.0	2
21	Hd.	EII			41.527			40.83	0	---	--
30	Hd.	WII			41.510			39.98	0	7.0	2
Feb. 4	Hd.	WII			41.484			39.97	0	6.0	2
1914											
Jan. 16	Wy.	EI			41.482			39.78	0	6.5	3½
27	Fn.	WI			41.515			-----	0	6.0	3
28	Wy.	WI			41.511			39.61	0	6.0	3
29	R.	WI			41.499			40.58	0	6.5	3
31	Wy.	WI			41.602			40.88	0	6.0	3
Feb. 2	Fn.	WI			41.498			41.49	0	6.0	2½
3	Wy.	EI			41.511			40.49	0	6.0	3
4	Hd.	EI			41.495			40.53	0	6.0	3
Mean	1913.74		6	6	41.512	+19	48	40.44			
	1913.71										
Corr					−0.081			−0.23			

22 H. Camelopardalis

			h	m	s	°	′	″				
			6	8	55.904	+69	21	9.50				
1912					s			″				
Nov. 16	R.	EII			−0.08			+0.55	I	4.4	3	
18	Fn.	EII			−0.09			+0.37	0	5.0	1½	
Dec. 3	R.	WII			−0.12			+0.72	I	4.9	2½	
9	Fn.	WII			−0.22			+0.80	0	---	3½	
1913												
Nov. 4	Fn.	EI			−0.09			+0.57	0	5.0	2½	
5	R.	EI			−0.04			−0.16	I	3.9	2½	
17	Hd.	WI			+0.05			+0.13	I	4.4	2	
20	Hd.	WI			−0.02			+0.36	I	---	2	
1915												
Feb. 10	Hd.	EI			----			+0.65	I	4.4	2	
17	Fn.–Wy.	EI			----			+0.43	0	5.0	2	
18	Hd.–An.	EI			----			+0.05	0	---	3	R.
19	Fn.–Wy.	EI			----			+0.02	0	---	2	R.
20	An.–Hd.	WI			----			+0.54	I	4.9	2	
21	An.–Hd.	WI			----			+0.70	0	---	2½	R.
22	Wy.–Fn.	WI			----			+0.94	I	4.9	3	
1915					s			″				
Mar. 1	Wy.–Fn.	WI			----			+1.18	0	---	3	R.
2	Wy.–Fn.	WI			----			+0.85	0	5.5	3½	
Mean	1913.38				−0.076			+0.52				
	1914.06											
Corr					−0.081			−0.34				

22 H. Camelopardalis s. p.

			h	m	s	°	′	″			
			6	8	55.905	+69	21	9.54			
1912											
July 27	Fn.	WII			−0.07			+0.85	0	5.5	3
Aug. 5	Fn.	EII			0.00			+0.51	0	5.5	3
7	Fn.	EII			−0.05			−0.99	0	---	--
1913											
July 3	R.	EII			−0.05			−1.40	0	---	4
8	Fn.	WII			−0.10			−0.31	0	---	4
12	Fn.	WII			−0.08			−0.06	0	---	4½
1914											
May 26	Wy	EI			−0.16			−0.12	0	6.5	3
June 2	Fn.	EI			−0.20			−0.62	0	---	4½
5	Fn.	EI			−0.17			+0.69	0	5.5	3
23	Hd.	WI			+0.02			−0.26	0	6.5	3½
29	Fn.	WI			−0.14			−0.50	0	---	4
Mean	1913.68				−0.091			−0.20			
Corr					−0.081			+0.63			

η Geminorum

			h	m	s	°	′	″			
			6	9	26.725	+22	32	0.88			
1911											
Dec. 5	Hd.	WII			−0.066			+0.06	I	3.4	3
6	Hd.	WII			−0.003			+0.16	I	2.9	1
19	Hd.	EII			−0.040			+0.73	I	2.4	2½
25	R.	EII			+0.007			+0.19	II	2.6	1
1915											
Oct. 12	Fn.	WI			−0.055			0.00	I	---	2½
21	Fn.	WI			−0.021			−0.81	I	3.4	3
28	Wy.	EI			−0.060			−0.67	I	3.9	3
29	Hd.	EI			−0.069			−0.46	I	2.9	3
Mean	1913.88				−0.038			−0.10			
Corr					−0.081			−0.24			

Bradley 904 [2]

			h	m	s	°	′	″			
1912											
Oct. 26	R.	EII	6	9	35.106	+36	10	34.36	0	6.5	2
29	R.	EII			35.156			34.12	0	6.5	1½
Nov. 4	R.	WII			35.112			34.29	0	7.0	2½
9	Fn.	WII			35.158			33.91	0	6.2	1½
1913											
Dec. 8	Hd.	EI			35.152			34.32	0	7.0	2
9	Fn.	EI			35.108			-----	0	---	2
11	Hd.	EI			35.181			33.75	0	6.5	2
18	Hd.	WI			35.130			34.96	0	6.5	2
19	Fn.	WI			35.102			34.83	0	6.0	1½
20	R.	WI			35.149			34.05	0	7.0	1½
Mean	1913.51		6	9	35.135	+36	10	34.29			
	1913.46										
Corr					−0.081			−0.26			

Bradley 893

			h	m	s	°	′	″			
1912											
Jan. 27	R.	EII	6	9	37.03	+61	32	43.83	I	4.4	1½
Feb. 9	Hd.	EII			37.04			43.87	0	5.5	3
22	R.	WII			36.98			44.84	0	---	5
23	Hd.	WII			36.96			43.95	I	4.9	2
1915											
Oct. 22	Hd.	WI			36.98			42.76	0	---	2
23	Wy.	WI			36.99			43.38	0	6.0	3
30	Fn.	EI			37.09			44.14	0	5.0	2½
Nov. 1	Hd.	EI			37.00			44.13	0	5.5	3½
Mean	1913.97		6	9	37.009	+61	32	43.86			
Corr					−0.081			−0.32			

[1] Double; s. component observed.

[2] Double; n. fol. component observed.

Bradley 920

			h	m	s	°	′	″			
1912											
Feb. 13	Hd.	EII	6	10	27.991	−6	14	48.48	I	3.9	2
14	R.	EII			27.951			48.06	I	4.4	2½
27	Hd.	WII			27.970			48.23	I	3.9	2
28	R.	WII			27.979			47.51	I	3.4	2
1915											
Nov. 16	Hd.	WI			27.998			48.08	I	4.4	3
17	Fn.	WI			28.021			48.15	I	4.4	3
24	Wy.	EI			27.995			48.29	I	4.4	3
27	Wy.	EI			27.981			47.39	I	3.9	3
Mean	1914.02		6	10	27.986	−6	14	48.02			
Corr					−0.081			−0.16			

Lalande 11947

			h	m	s	°	′	″			
1912											
Nov. 20	Fn.	EII	6	11	14.950	+1	11	53.13	0	6.6	2
22	Fn.	EII			14.998			52.15	0	---	--
Dec. 22	R.	WII			14.948			53.64	0	6.0	3
28	Hd.	WII			14.953			52.91	0	6.5	2½
1913											
Nov. 21	Fn.	WI			14.972			53.08	0	6.7	2
22	R.	WI			14.948			53.55	0	6.0	2
Dec. 3	R.	EI			15.018			52.49	0	6.0	2
5	R.	EI			14.959			53.38	0	6.0	2½
Mean	1913.42		6	11	14.968	+1	11	53.04			
Corr					−0.081			−0.18			

Bradley 917

			h	m	s	°	′	″			
1912											
Feb. 16	Hd.	EII	6	11	29.277	+23	46	19.07	0	---	1
17	R.	EII			29.331			19.90	0	5.5	2½
Mar. 1	Hd.	WII			29.312			20.27	0	6.5	2
2	R.	WII			29.306			19.19	0	7.0	2
1915											
Oct. 25	Wy.	WI			29.298			19.80	0	6.5	3
27	Fn.	WI			29.280			19.26	0	6.5	2
Nov. 3	Wy.	EI			29.300			19.08	0	7.0	2
7	Hd.	EI			29.302			18.87	0	6.0	2
Mean	1913.99		6	11	29.301	+23	46	19.43			
Corr					−0.081			−0.24			

2 Lyncis

			h	m	s	°	′	″			
1912			6	11	41.118	+59	2	40.76			
Dec. 12	R.	EII			−0.056			−0.52	I	4.4	2
14	R.	EII			−0.115			+0.24	0	---	1
1913											
Jan. 8	Fn.	WII			−0.114			----	0	5.0	3½
9	R.	WII			−0.132			−0.18	I	4.4	2
Dec. 12	Fn.	EI			−0.181			−0.08	0	4.5	3½
13	R.	EI			−0.134			−0.60	I	4.4	2
29	Hd.	WI			−0.080			+0.08	I	4.4	2
30	Fn.	WI			−0.172			−0.41	I	3.9	2
Mean	1913.48				−0.123			−0.21			
	1913.55										
Corr					−0.081			−0.32			

Groombridge 1004

			h	m	s	°	′	″			
1912											
Jan. 10	Hd.	EII	6	12	29.43	+86	45	26.02	0	7.0	3
20	R.	WII			29.45			26.19	0	7.5	3
22	Hd.	WII			29.04			26.65	0	7.0	3
24	R.	EII			30.07			26.76	0	7.5	3
1915											
Nov. 27	Wy.	EI			29.39			25.89	0	6.5	2½
29	Wy.	EI			29.96			26.51	0	7.0	2½
1915											
Dec. 8	Wy.	WI			30.99			24.91	D	7.0	3
10	Hd.	WI			30.21			25.49	0	6.5	2
Mean	1913.99		6	12	29.82	+86	45	26.05			
Corr					−0.08			−0.40			

Groombridge 1004 s. p.

			h	m	s	°	′	″			
1911											
June 21	T.	EII	6	12	-----	+86	45	25.19	0	---	--
27	Hd.	WII			29.08			25.45	0	---	--
28	T.	WII			-----			24.99	D	---	--
July 3	Fn.	EII			28.78			25.32	D	---	--
1915											
June 19	Wy.	WI			29.57			25.21	0	7.0	3
22	Wy.	EI			29.43			24.64	0	7.0	3
28	Wy.	EI			29.42			25.09	0	7.0	2½
July 6	Fn.	WI			28.85			25.29	0	7.0	3
Mean	1914.15		6	12	29.19	+86	45	25.15			
	1913.48										
Corr					−0.08			+0.43			

Weisse$_1$ VI 272

			h	m	s	°	′	″			
1912											
Dec. 16	Fn.	EII	6	12	58.231	+14	24	60.05	0	6.1	1½
30	Fn.	WII			58.251			60.02	D	6.3	3
1913											
Jan. 14	R.	WII			58.217			59.35	D	6.0	1
18	Hd.	EII			58.236			59.67	D	6.0	2
1914											
Jan. 28	Wy.	WI			58.268			60.05	0	6.0	3
29	R.	WI			58.261			58.67	0	---	--
Feb. 3	Wy.	EI			58.273			60.55	0	---	3½
4	Hd.	EI			58.273			60.00	0	6.5	3
7	Hd.	EI			58.254			59.80	0	6.5	2
Mean	1913.61		6	12	58.252	+14	24	59.80			
Corr					−0.081			−0.22			

κ Columbæ

			h	m	s	°	′	″			
1911											
Dec. 7	Hd.	WII	6	13	20.998	−35	6	35.76	0	5.5	--
27	R.	EII			21.017			35.05	0	---	5
1912											
Jan. 9	R.	EII			20.947			34.98	0	---	5
19	Fn.	WII			21.007			33.52	0	5.3	4
1915											
Nov. 30	Hd.	EI			21.070			36.76	0	5.5	3½
Dec. 4	Fn.	EI			21.033			35.27	0	5.5	--
6	Hd.	WI			21.099			36.46	0	5.5	3½
9	Fn.	WI			21.009			38.43	0	---	3
Mean	1913.96		6	13	21.022	−35	6	35.78			
Corr					−0.081			+0.13			

Lalande 12060

			h	m	s	°	′	″			
1913											
Jan. 22	Fn.	EII	6	13	41.447	−16	46	54.85	0	6.5	3
25	Hd.	EII			41.455			54.91	0	6.0	3
30	Hd.	WII			41.493			55.15	0	---	3
Feb. 4	Hd.	WII			41.463			54.52	0	5.5	3½
1914											
Jan. 31	Wy.	WI			41.470			54.89	0	6.0	4
Feb. 2	Fn.	WI			41.461			53.63	0	6.5	3
9	Fn.	EI			41.538			54.37	0	6.0	3
11	Hd.	EI			41.480			53.79	D	6.0	3½
15	Fn.	WI			41.485			54.14	D	---	3
Mean	1913.65		6	13	41.477	−16	46	54.47			
Corr					−0.081			−0.10			

7 Monocerotis

				h m s	° ′ ″			
1911								
Dec.	5	Hd.	WII	6 15 22.711	−7 47 5.99	0	6.0	4
	6	Hd.	WII	22.804	4.63	0	5.5	2
	19	Hd.	EII	22.675	4.19	0	5.5	--
	25	R.	EII	22.721	4.23	0	5.5	1½
1915								
Nov.	22	Hd.	EI	22.680	4.86	0	6.0	2
	24	Wy.	EI	22.701	5.01	0	---	3
Dec.	21	Hd.	WI	22.739	4.80	0	6.0	3
	22	Fn.	WI	22.725	4.61	0	6.0	3
Mean		1913.94		6 15 22.720	−7 47 4.79			
Corr				−0.081	−0.15			

Weisse$_2$ VI 340

				h m s	° ′ ″			
1912								
Oct.	26	R.	EII	6 16 18.140	+30 0 23.06	0	7.0	2
	29	R.	EII	18.100	22.81	0	6.5	2
Nov.	4	R.	WII	18.117	22.51	0	7.0	2½
	9	Fn.	WII	18.117	22.48	0	6.7	1½
1913								
Nov.	4	Fn.	EI	18.104	22.40	0	7.0	2
	5	R.	EI	18.140	22.18	0	6.5	3
	10	Hd.	WI	18.126	22.60	0	7.5	3
	17	Hd.	WI	18.127	22.81	0	7.0	2
Mean		1913.35		6 16 18.121	+30 0 22.61			
Corr				−0.081	−0.25			

ζ Canis Majoris

				h m s	° ′ ″			
				6 16 51.414	−30 1 23.56			
1912								
Feb.	14	R.	EII	+0.110	+1.13	0	---	5
	17	R.	EII	+0.062	+1.35	I	3.9	4
	22	R.	WII	+0.119	+0.37	I	---	4
	23	Hd.	WII	+0.094	+0.56	I	2.9	4
1915								
Oct.	30	Fn.	EI	+0.136	+0.57	I	3.9	3½
Nov.	3	Wy.	EI	+0.106	+0.30	I	4.4	3½
	9	Wy.	WI	+0.136	+1.31	I	3.9	3½
	17	Fn.	WI	+0.117	+0.52	I	3.9	3½
Mean		1913.99		+0.110	+0.76			
Corr				−0.081	+0.03			

Lacaille 2232

				h m s	° ′ ″			
1912								
Dec.	9	Fn.	WII	6 17 27.808	−29 37 39.16	0	8.0	4
	12	R.	EII	27.795	37.38	0	8.5	2½
	16	Fn.	EII	27.772	38.16	0	8.6	4
	28	Hd.	WII	27.850	38.67	0	7.5	3
1914								
Feb.	26	Fn.	EI	27.797	38.07	0	---	3
Mar.	3	Wy.	WI	27.802	37.56	0	8.2	3½
	8	Hd.	EI	27.786	37.40	0	---	3½
	9	Fn.	WI	27.773	38.00	0	8.5	3½
	10	Wy.	WI	27.784	38.85	0	8.0	2½
Mean		1913.64		6 17 27.796	−29 37 38.14			
Corr				−0.081	+0.02			

μ Geminorum

				h m s	° ′ ″			
				6 17 30.990	+22 33 37.46			
1911				s	″	″		
Aug.	*9*	*R.*	*EII*	*+0.059*	*−0.19*	*−0.18*	*0*	--- --
Sept.	*6*	*Fn.*	*WII*	*−0.006*	*+0.09*	*+0.10*	*0*	--- *2*
	11	*Hd.*	*WII*	*−0.061*	*0.00*	*−0.03*	*0*	--- --
	25	*Hd.*	*EII*	*−0.006*	*−0.31*	*−0.35*	*0*	--- *3*
	26	*R.*	*EII*	-----	*−0.40*	*−0.39*	*0*	--- --
1912								
Jan.	4	Fn.	EII	+0.004	−0.64		I	2.6 2
	27	R.	EII	−0.015	----		II	2.6 1
Feb.	2	Hd.	WII	−0.023	----		I	2.9 2
	27	Hd.	WII	−0.003	----		I	2.9 2
	28	R.	WII	−0.006	----		II	2.6 2
Mar.	1	Hd.	WII	+0.023	----		II	2.6 2
	13	Fn.	EII	+0.002	----		I	--- 1½
	17	R.	EII	−0.011		+0.14	II	2.6 1
	22	*R.*	*EII*	-----	*+0.07*	*+0.08*	*I*	--- --
	25	*Hd.*	*WII*	-----	*+0.15*	*+0.16*	*I*	--- *2*
	26	*R.*	*WII*	-----	*+0.04*	*+0.08*	*0*	--- --
Aug.	*12*	*R.*	*EII*	-----	*−0.25*	*−0.27*	*0*	--- *4*
	23	*R.*	*WII*	*+0.031*	*−0.44*	*−0.46*	*0*	--- --
	29	*Fn.*	*WII*	*+0.005*	*−0.07*	*−0.08*	*0*	--- *2*
Nov.	16	R.	EII	−0.005		+0.51	II	2.6 2
Dec.	21	R.	EII	0.000		−0.28	II	2.6 2
	22	R.	WII	−0.014		+0.72	I	2.4 3
1913								
Jan.	9	R.	WII	+0.036	----		II	2.6 1½
Feb.	7	Fn.	WII	+0.003		−0.07	I	2.7 3
	17	Fn.	EII	+0.006		−0.28	0	--- 3
	21	Fn.	EII	+0.007		−0.34	I	2.9 2
Nov.	21	Fn.	WI	+0.048		+0.62	I	3.4 1½
	22	R.	WI	+0.015		+0.02	II	2.1 2
Dec.	3	R.	EI	−0.018		−0.71	II	2.6 1½
	5	R.	EI	−0.012		−0.89	II	2.6 2
	8	Hd.	EI	+0.015		−0.13	II	3.1 2
	9	Fn.	EI	+0.004		+0.12	I	3.4 2
	11	Hd.	EI	+0.003		+0.01	I	2.9 3
	12	Fn.	EI	+0.005		−0.70	I	2.9 3
	13	R.	EI	+0.002		−0.63	II	2.6 2
	18	Hd.	WI	−0.005		+0.24	I	2.9 2
	19	Fn.	WI	+0.013		+0.65	I	2.9 1½
	29	Hd.	WI	0.000	----		I	2.9 2
1914								
Jan.	8	Hd.	EI	−0.004	----		I	--- 3
	16	Wy.	EI	+0.024		−0.72	I	3.4 3½
	26	R.	WI	+0.052	----		I	--- 3
	27	Fn.	WI	−0.012		+0.43	I	2.9 2½
	28	Wy.	WI	+0.014		−0.16	I	2.9 3
	29	R.	WI	+0.050		−0.12	I	2.9 3
Feb.	12	Fn.	EI	+0.020	----		I	3.4 1½
	17	Wy.	WI	+0.023		−0.11	I	2.9 2½
	21	Hd.	WI	+0.020	----		I	2.9 2
	25	Hd.	EI	+0.021	----		I	--- 2
Mar.	7	Hd.	EI	+0.019		−0.50	I	3.4 2½
July	*28*	*Fn.*	*EI*	*−0.016*	*−0.36*	*−0.34*	*0*	--- *3*
Aug.	*10*	*Wy.*	*WI*	-----	*−0.54*	*−0.53*	*0*	--- *3½*
	13	*Wy.*	*WI*	*+0.006*	*+0.14*	*+0.12*	*0*	--- *3½*
	17	*Wy.*	*WI*	*0.000*	*−0.09*	*−0.09*	*0*	--- *3½*
	20	*Wy.*	*WI*	-----	*+0.20*	*+0.22*	*0*	--- *3½*
	21	*An.*	*WI*	*−0.026*	*−0.42*	*−0.41*	*0*	--- *2½*
Sept.	*1*	*Wy.*	*WI*	*−0.018*	*+0.09*	*+0.08*	*0*	--- *3*
	4	*Wy.*	*WI*	*−0.023*	*+0.49*	*+0.50*	*0*	--- *3*
	14	*An.*	*EI*	*−0.061*	*−0.42*	*−0.43*	*I*	--- *2½*
	21	*Wy.*	*EI*	*−0.005*	----	----	*I*	--- *2½*
	22	*An.*	*EI*	*+0.044*	----	----	*I*	--- *3*
1915								
Jan.	16	An.	WI	+0.020		−0.36	I	--- 2½
	25	Fn.	EI	+0.002	----		I	3.4 2½
Apr.	*1*	*An.*	*EI*	-----	*+0.20*	*+0.21*	*I*	--- *2½*
Aug.	*3*	*Hd.*	*EI*	-----	*−0.87*	*−0.83*	*0*	--- *3½*
	12	*An.*	*EI*	-----	*−0.03*	*−0.03*	*0*	--- *3*
	17	*Wy.*	*WI*	*−0.047*	*−0.01*	*+0.01*	*0*	--- *3*
	19	*An.*	*WI*	-----	*+0.80*	*+0.80*	*0*	--- *3½*
	22	*Wy.*	*WI*	*−0.022*	*−0.55*	*−0.56*	*0*	--- *3½*
	23	*Hd.*	*WI*	-----	*−0.11*	*−0.12*	*0*	--- *3*
	24	*Wy.*	*WI*	*+0.012*	*+0.31*	*+0.31*	*0*	--- *3½*
	25	*Hd.*	*WI*	*−0.004*	*−0.27*	*−0.27*	*0*	--- *3*
Sept.	*2*	*Hd.*	*WI*	*+0.004*	*+0.11*	*+0.11*	*0*	--- *3*
Oct.	12	Fn.	WI	−0.016		−0.60	I	3.4 2½
	21	Fn.	WI	−0.032		−0.36	I	2.9 3
	22	Hd.	WI	+0.023		−0.38	I	--- 3
Nov.	1	Hd.	EI	−0.025		−0.42	I	3.4 3
	7	Hd.	EI	+0.046	----		I	2.9 2
	15	Wy.	WI	−0.059	----		I	3.4 2½
	29	Wy.	EI	+0.049	----		I	2.9 2
	30	Hd.	EI	+0.001	----		I	2.9 2
Dec.	9	Fn.	WI	−0.003	----		I	2.9 2½
	14	Wy.	WI	−0.013	----		I	--- 3

			s	″			
1916							
Jan. 24	Hd.	EI	+0.012	−0.05	0	---	3
Feb. 3	Hd.	EI	−0.001	−0.21	I	2.9	2
7	Wy.	EI	−0.007	+0.31	I	3.4	3
10	Fn.	WI	−0.024	−0.37	I	3.4	2½
Mean	1914.14		+0.005	−0.15			
	1914.20						
Corr			−0.081	−0.24			

ψ[1] Aurigæ

	h	m	s	°	′	″
	6	17	58.168	+49	20	5.19

			s	″			
1913							
Jan. 26	Hd.	EII	−0.093	−0.37	0	---	2
28	R.	EII	−0.107	−0.02	0	---	1½
30	Hd.	WII	−0.127	−0.04	0	5.8	2
Feb. 4	Hd.	WII	−0.134	−0.51	0	5.3	3
1915							
Jan. 4	Hd.	EI	−0.037	−0.35	I	4.4	2
5	Wy.	EI	−0.031	−0.35	0	5.5	3½
10	Wy.	WI	−0.079	−0.23	I	4.9	2
13	An.	WI	−0.084	−0.21	I	5.9	2
Mean	1914.05		−0.086	−0.26			
Corr			−0.081	−0.29			

Radcliffe 1845, 1707

			h	m	s	°	′	″			
1912											
Jan. 21	Hd.	WII	6	17	58.80	+70	35	8.23	0	6.0	2
22	Hd.	WII			58.90			8.82	0	6.0	3
Feb. 9	Hd.	EII			58.85			8.08	0	6.0	4
13	Hd.	EII			58.95			7.64	0	6.5	2
1915											
Oct. 25	Wy.	WI			58.92			7.85	0	6.0	3
27	Fn.	WI			58.91			7.71	0	6.0	2
28	Wy.	EI			58.98			7.58	0	---	3
29	Hd.	EI			58.92			8.47	0	6.5	3
Mean	1913.96		6	17	58.904	+70	35	8.05			
Corr					−0.081			−0.34			

β Canis Majoris

	h	m	s	°	′	″
	6	18	44.161	−17	54	38.13

			s	″				
1911								
Dec. 7	Hd.	WII	+0.002	−0.72	I	2.4	--	
27	R.	EII	+0.063	−1.11	II	2.6	3	
1912								
Jan. 9	R.	EII	+0.021	+0.47	II	2.6	3½	
19	Fn.	WII	+0.106	−0.75	II	2.3	3	
1915								
Feb. 10	Hd.	EI	-----	−2.54	I	---	2	R.
17	Fn.–Wy.	EI	-----	−2.01	I	---	2½	R.
18	Hd.–An.	EI	-----	−0.01	II	2.6	3	
19	Fn.–Wy.	EI	-----	+0.09	I	2.4	3	
20	An.–Hd.	WI	-----	−2.41	I	---	3	R.
21	An.–Hd.	WI	-----	−0.50	II	3.1	3	
22	Wy.–Fn.	WI	-----	−1.67	I	---	3	R.
Mar. 1	Wy.–Fn.	WI	-----	−1.40	II	2.6	3½	
2	Wy.–Fn.	WI	-----	−1.89	I	---	3½	R.
Dec. 2	Hd.	EI	+0.049	−0.34	II	2.6	3	
4	Fn.	EI	+0.009	−0.16	I	1.9	3	
6	Hd.	WI	+0.123	−0.82	II	2.6	2½	
10	Hd.	WI	+0.133	−1.18	II	2.6	3	
1916								
Aug. 20	*Wy*	*EI*	*+0.057*	*−0.53*	*−0.51*	*0*	*---*	*4*
31	*Fn.*	*WI*	*0.000*	*−1.13*	*−1.19*	*0*	*---*	*3½*
Sept. 7	*Wy.*	*WI*	*+0.030*	*−0.89*	*−0.96*	*0*	*---*	*3½*
10	*Hd.*	*WI*	*+0.089*	*−0.66*	*−0.69*	*0*	*---*	*3½*
18	*Hd.*	*EI*	*+0.008*	*+1.05*	*+1.21*	*0*	*---*	*3½*
19	*Wy.*	*EI*	*+0.019*	*−0.86*	*−0.89*	*I*	*---*	*3½*
21	*Hd.*	*EI*	*+0.052*	*−0.76*	*−0.65*	*I*	*---*	*3*

			s	″	″			
1917								
Mar. 20	Hd.	EI	+0.073		−0.39	I	---	3
22	*Fn.*	*EI*	*+0.059*	*+0.49*	*+0.60*	*I*	*---*	*3*
29	*Wy.*	*WI*	*+0.047*	*−0.84*	*−0.77*	*0*	*---*	*3½*
30	*Fn.*	*WI*	*+0.082*	*−1.17*	*−1.17*	*0*	*---*	*3½*
Apr. 16	*Fn.*	*WI*	*+0.045*	*−0.62*	*−0.53*	*0*	*---*	*3½*
23	*Wy*	*EI*	*−0.015*	*+0.08*	*+0.11*	*0*	*---*	*3½*
July 16	*Wy.*	*EII*	*-----*	*−0.12*	*−0.05*	*0*	*---*	*4*
29	*Wy.*	*EII*	*-----*	*−1.14*	*−0.91*	*0*	*---*	*4*
30	*Fn.*	*EII*	*+0.045*	*−0.97*	*−0.77*	*0*	*---*	*3½*
Aug. 9	*Wy.*	*WII*	*−0.001*	*−0.60*	*−0.50*	*0*	*---*	*3½*
13	*Hd.*	*WII*	*+0.083*	*−0.27*	*−0.37*	*0*	*---*	*3½*
Sept. 10	*Fn.*	*EII*	*−0.008*	*−0.50*	*−0.45*	*0*	*---*	*3½*
1918								
Feb. 12	Fn.	WII	+0.078		−0.22	I	---	4
18	Fn.	EII	-----		−0.82	I	3.4	3
28	Wy.	EII	+0.064		−0.13	0	---	4½
Mar. 5	Hd.	EII	+0.045		+0.01	I	2.9	3
7	Fn.	EII	+0.059		−0.95	I	2.9	3
18	Wy.	WII	+0.031		−1.63	I	2.9	3
26	*Wy.*	*WII*	*+0.051*	*−1.43*	*−1.34*	*0*	*---*	*3½*
Apr. 5	*Fn.*	*EII*	*+0.037*	*0.00*	*+0.12*	*0*	*---*	*3½*
Aug. 14	*Fn.*	*WII*	*−0.036*	*−0.35*	*−0.19*	*0*	*---*	*4*
Mean	1915.70		+0.061		−0.56			
	1915.71							
Corr			−0.081		−0.09			

δ Columbæ

			h	m	s	°	′	″			
1913											
Feb. 8	Hd.	WII	6	18	49.414	−33	23	26.41	0	---	5
13	R.	WII			49.499			25.47	0	---	5
14	Fn.	WII			49.521			27.48	0	5.4	4
18	Hd.	EII			49.437			26.55	0	5.8	3
19	Fn.	EII			49.374			26.84	0	5.5	3
1914											
Feb. 9	Fn.	EI			49.473			26.81	0	---	4
11	Hd.	EI			49.464			25.83	0	5.5	3½
16	Fn.	WI			49.552			26.31	0	---	3½
Mar. 12	Fn.	WI			49.390			26.17	0	4.5	3
Mean	1913.58		6	18	49.458	−33	23	26.43			
Corr					−0.081			+0.10			

8 Monocerotis[1]

	h	m	s	°	′	″
	6	18	59.962	+4	38	21.24

			s	″				
1912								
Mar. 1	Hd.	WII	−0.019	+0.85	I	3.9	2	
7	Fn.	WII	+0.007	+0.48	I	4.1	2½	
9	R.	EII	-----	+0.41	0	---	1½	
10	Fn.	EII	+0.001	+0.40	I	4.1	--	
13	Fn.	EII	−0.056	+0.51	0	---	1½	
1915								
Nov. 5	Fn.	EI	−0.005	−0.12	0	5.0	2½	
7	Hd.	EI	+0.017	+0.33	I	3.9	2	
15	Wy.	WI	−0.023	+1.07	I	4.9	3	
16	Hd.	WI	+0.019	−0.06	0	---	3½	
Mean	1914.02		−0.007	+0.43				
	1913.82							
Corr			−0.081	−0.19				

Weisse$_1$ VI 466

	h	m	s	°	′	″			
1912									
Dec. 19	R.	EII	6	19	7.033	+8	55	55.97	0	6.0	2
20	Fn.	EII			7.066			55.80	0	---	3
30	Fn.	WII			7.052			56.02	0	6.5	3
1913											
Jan. 9	R.	WII			7.004			56.09	0	6.0	1½
1914											
Jan. 31	Wy.	WI			7.107			56.24	0	---	3½
Feb. 2	Fn.	WI			7.020			57.10	0	---	3
4	Hd.	EI			7.028			57.05	0	6.5	3
7	Hd.	EI			6.996			57.21	0	6.5	3
Mar. 4	Hd.	WI			7.035			56.86	0	6.5	3
Mean	1913.61		6	19	7.038	+8	55	56.48			
Corr					−0.081			−0.21			

[1] Double; s. pr. component observed.

Groombridge 1156

			h m s	° ′ ″			
1913							
Jan. 22	Fn.	EII	6 19 57.384	+42 0 36.71	0	7.0	1½
25	Hd.	EII	57.346	36.48	0	7.0	2
Feb. 6	R.	WII	57.352	36.53	0	7.0	2½
7	Fn.	WII	57.356	36.94	0	---	3½
1914							
Feb. 12	Fn.	EI	57.319	36.55	0	7.0	1½
25	Hd.	EI	57.389	36.80	0	---	2
Mar. 9	Fn.	WI	57.409	37.22	0	7.0	2
10	Wy.	WI	57.285	36.59	0	7.0	2
Mean	1913.62		6 19 57.355	+42 0 36.73			
Corr			−0.081	−0.27			

Pulkowa 1855, 1045

			h m s	° ′ ″			
1912							
Jan. 10	Hd.	EII	6 19 58.443	−11 28 51.12	0	5.5	5
27	R.	EII	58.424	51.75	0	6.0	3
Feb. 2	Hd.	WII	58.460	52.00	0	6.0	2
4	Fn.	WII	58.448	51.92	0	---	2
1915							
Nov. 29	Wy.	EI	58.482	52.63	I	4.9	2½
30	Hd.	EI	58.459	52.63	0	6.0	3
Dec. 9	Fn.	WI	58.441	52.46	0	6.0	2½
14	Wy.	WI	58.456	52.18	0	6.0	3
21	Hd.	WI	58.504	52.39	0	6.0	3
Mean	1914.22		6 19 58.457	−11 28 52.12			
Corr			−0.081	−0.14			

B. D.+39° 1632

			h m s	° ′ ″			
1917							
Mar. 6	Fn.	WI	6 20 -----	+39 1 37.68	0	8.5	2
8	Wy.	WI	-----	38.32	0	8.5	3
12	Hd.	EI	-----	37.86	0	7.5	2½
15	Wy.	EI	-----	37.42	0	8.0	3½
Mean	1917.19		6 20 -----	+39 1 37.82			
Corr			-----	−0.27			

Lalande 12343

			h m s	° ′ ″			
1913							
Jan. 26	Hd.	EII	6 22 6.163	−1 27 12.94	0	6.2	3
Feb. 4	Hd.	WII	6.160	12.72	0	6.2	3
6	R.	WII	6.126	12.97	0	6.5	3½
17	Fn.	EII	6.148	13.47	0	---	3½
Dec. 13	R.	EI	6.180	13.22	0	5.5	2½
19	Fn.	WI	6.127	12.86	0	6.0	2
30	Fn.	WI	6.184	12.56	0	6.0	2
1914							
Jan. 8	Hd.	EI	6.185	12.89	0	---	3
Mean	1913.54		6 22 6.159	−1 27 12.95			
Corr			−0.081	−0.18			

Lalande 12356

			h m s	° ′ ″			
1912							
Feb. 9	Hd.	EII	6 23 17.209	+16 17 45.71	0	6.0	3
13	Hd.	EII	17.179	45.14	0	6.5	2
Mar. 2	R.	WII	17.196	45.27	0	6.5	2
7	Fn.	WII	17.191	45.56	0	6.4	2½
1915							
Oct. 12	Fn.	WI	17.162	45.32	0	6.0	2
21	Fn.	WI	17.150	45.17	0	6.5	3
29	Hd.	EI	17.135	45.18	0	6.5	3
30	Fn.	EI	17.138	45.69	0	6.0	2½
Mean	1913.98		6 23 17.170	+16 17 45.38			
Corr			−0.081	−0.22			

10 Monocerotis

			h m s	° ′ ″				
			6 23 30.972	−4 42 21.08				
1912								
Nov. 16	R.	EII	−0.044	−0.47	0	5.5	2½	
18	Fn.	EII	−0.058	−0.61	0	5.0	1½	
Dec. 3	R.	WII	−0.090	−0.90	0	6.0	1½	
22	R.	WII	−0.035	−1.11	0	5.5	3½	
1913								
Nov. 22	R.	WI	−0.082	+0.10	0	---	3½	
Dec. 3	R.	EI	−0.031	−0.13	I	4.9	2	
5	R.	EI	−0.041	−0.88	0	5.0	3½	
18	Hd.	WI	−0.048	−0.61	0	5.5	3	
Mean	1913.42		−0.054	−0.58				
Corr			−0.081	−0.16				

ρ Geminorum

			h m s	° ′ ″				
			6 23 37.162	+20 16 11.36				
1911								
Dec. 27	R.	EII	−0.003	+0.03	I	3.9	1½	
1912								
Jan. 9	R.	EII	−0.019	+0.44	I	3.9	4	
21	Hd.	WII	+0.040	−0.09	I	3.4	2	
22	Hd.	WII	+0.070	−0.18	I	3.9	2	
1915								
Feb. 10	Hd.	EI	-----	−0.10	I	3.9	2	
17	Fn.–Wy.	EI	-----	+0.07	I	3.9	2½	
18	Hd.–An.	EI	-----	−0.68	I	---	2	R.
19	Fn.–Wy.	EI	-----	−1.14	0	---	2½	R.
20	An.–Hd.	WI	-----	+0.69	I	4.4	2	
21	An.–Hd.	WI	-----	−1.39	0	---	3	R.
22	Wy.–Fn.	WI	-----	+0.87	I	3.9	3	
Mar. 1	Wy.–Fn.	WI	-----	−0.43	0	---	3	R.
2	Wy.–Fn.	WI	-----	−0.88	I	4.9	3½	
Oct. 22	Hd.	WI	+0.045	+0.21	0	---	3	
23	Wy.	WI	+0.026	+0.42	I	3.9	3	
Nov. 1	Hd.	EI	+0.065	−0.27	0	---	3½	
3	Wy.	EI	+0.013	−0.37	I	4.4	2½	
Mean	1913.93		+0.030	+0.06				
	1914.39							
Corr			−0.081	−0.23				

Weisse$_2$ VI 601

			h m s	° ′ ″			
1912							
Nov. 20	Fn.	EII	6 24 41.278	+28 16 20.75	0	6.5	2
22	Fn.	EII	41.323	20.18	0	7.0	2
Dec. 30	Fn.	WII	41.296	20.47	0	7.3	3
1913							
Jan. 8	Fn.	WII	41.340	20.37	0	7.0	2½
Dec. 11	Hd.	EI	41.305	20.84	0	6.5	2
12	Fn.	EI	41.252	20.04	0	7.0	3½
30	Fn.	WI	41.284	20.84	0	---	2
1914							
Jan. 27	Fn.	WI	41.307	20.93	0	7.0	3
Mean	1913.47		6 24 41.298	+28 16 20.55			
Corr			−0.081	−0.25			

Carrington 910

			h m s	° ′ ″			
1912							
Feb. 14	R.	EII	6 25 30.38	+82 11 35.08	0	---	2
16	Hd.	EII	30.46	34.94	0	7.5	1
22	R.	WII	30.27	34.53	0	---	5
23	Hd.	WII	30.32	34.87	0	6.5	2½
1915							
Nov. 9	Wy.	WI	30.78	34.44	0	7.0	2½
15	Wy.	WI	30.34	34.83	0	7.0	2½
22	Hd.	EI	30.52	34.99	0	6.5	2
27	Wy.	EI	30.15	34.82	0	7.0	2½
Mean	1914.01		6 25 30.402	+82 11 34.81			
Corr			−0.081	−0.38			

Carrington 910 s. p.

			h m s	° ′ ″			
1913							
May 31	R.	WII	6 25 30.64	+82 11 33.72	0	7.5	3
June 4	R.	WII	30.47	34.50	0	---	4
18	R.	EII	30.36	34.15	0	7.0	2
24	Fn.	EII	30.37	35.18	0	7.0	2
1914							
June 17	Wy.	EI	30.63	33.80	0	7.0	3
July 9	Hd.	WI	30.43	33.05	0	7.0	2
16	Fn.	WI	30.54	34.14	0	7.0	2½
18	Hd.	EI	30.18	33.80	0	7.0	3
Mean	1913.98		6 25 30.452	+82 11 34.04			
Corr			−0.081	+0.46			

Lalande 12509 [1]

			h m s	° ′ ″			
1912							
Jan. 10	Hd.	EII	6 25 38.603	−22 31 53.56	0	7.5	5
24	R.	EII	38.588	53.45	0	7.5	3½
Feb. 2	Hd.	WII	38.574	52.98	0	6.0	2
4	Fn.	WII	38.570	53.73	0	---	2
1915							
Oct. 25	Wy.	WI	38.653	52.22	0	7.5	4
27	Fn.	WI	38.571	52.69	0	7.5	3½
Nov. 5	Fn.	EI	38.532	51.73	0	7.5	3½
7	Hd.	EI	38.546	52.68	0	7.0	3
Mean	1913.95		6 25 38.580	−22 31 52.88			
Corr			−0.081	−0.05			

B. D. +47° 1310

			h m s	° ′ ″			
1912							
Dec. 12	R.	EII	6 26 5.098	+46 59 15.35	0	7.0	1½
13	Fn.	EII	5.131	14.84	0	6.5	2
16	Fn.	EII	5.093	14.61	0	6.7	1½
1913							
Jan. 9	R.	WII	5.116	15.13	0	7.0	1
14	R.	WII	5.150	14.74	0	7.5	1
Dec. 13	R.	EI	5.064	14.84	0	7.0	2
1914							
Jan. 5	Hd.	EI	5.141	14.14	0	6.5	3
28	Wy.	WI	5.155	14.12	0	6.0	3
29	R.	WI	5.135	14.86	0	---	3½
31	Wy.	WI	5.082	16.03	0	6.5	3
Mean	1913.51		6 26 5.116	+46 59 14.87			
Corr			−0.081	−0.28			

Groombridge 1173 [2]

			h m s	° ′ ″			
1912							
Jan. 27	R.	EII	6 26 45.679	+52 31 46.43	0	---	--
Feb. 8	Fn.	EII	45.667	47.24	0	7.2	2½
27	Hd.	WII	45.680	46.16	0	7.0	2
Mar. 1	Hd.	WII	45.699	46.41	0	7.5	2
1915							
Nov. 17	Fn.	WI	45.692	46.74	0	7.0	2
29	Wy.	EI	45.679	45.48	0	7.5	2½
30	Hd.	EI	45.766	45.78	0	7.5	2
Dec. 2	Hd.	EI	45.658	46.18	0	7.0	3
6	Hd.	WI	45.684	46.33	0	7.0	2
Mean	1914.23		6 26 45.689	+52 31 46.31			
Corr			−0.081	−0.30			

8 Lyncis

			h m s	° ′ ″			
			6 29 28.068	+61 33 39.84			
1912							
Oct. 26	R.	EII	−0.07	+0.78	0	5.5	2
29	R.	EII	−0.02	+0.04	0	6.0	3½
Nov. 4	R.	WII	−0.18	+0.11	0	5.5	2
9	Fn.	WII	−0.14	−0.18	0	5.7	1½
1913			s	″			
Nov. 22	R.	WI	−0.09	+0.09	0	5.5	3
Dec. 3	R.	EI	−0.15	−0.41	0	5.5	2
5	R.	EI	−0.14	−0.61	0	6.0	2
18	Hd.	WI	−0.11	−0.21	0	6.0	2
1915							
Feb. 10	Hd.	EI	----	−0.11	0	5.5	2
17	Fn.–Wy.	EI	----	−0.30	0	6.0	2
18	Hd.–An.	EI	----	−1.13	0	---	2½ R.
19	Fn.–Wy.	EI	----	−1.30	0	---	2½ R.
20	An.–Hd.	WI	----	−0.08	0	6.5	2
21	An.–Hd.	WI	----	−0.06	0	---	2½ R.
22	Wy.–Fn.	WI	----	+0.33	0	6.5	3½
Mar. 1	Wy.–Fn.	WI	----	+0.10	0	---	2½ R.
2	Wy.–Fn.	WI	----	+1.75	0	---	3½
Mean	1913.38		−0.112	−0.09			
	1914.06						
Corr			−0.081	−0.32			

23 H. Camelopardalis

			h m s	° ′ ″			
			6 30 53.351	+79 39 47.10			
1912							
Jan. 9	R.	EII	+0.18	+0.42	0	---	4
10	Hd.	EII	+0.12	+1.10	0	---	2
19	Fn.	WII	+0.09	+0.74	0	5.5	2
20	R.	WII	+0.05	+0.88	0	5.5	3
1915							
Oct. 12	Fn.	WI	−0.15	+0.77	0	6.0	2½
21	Fn.	WI	+0.09	−0.09	0	6.0	3
28	Wy.	EI	−0.04	----	0	6.5	4
29	Hd.	EI	+0.03	+1.19	0	6.5	3
30	Fn.	EI	+0.08	+1.51	0	6.0	2½
Mean	1914.13		+0.050	+0.82			
	1913.92						
Corr			−0.081	−0.37			

23 H. Camelopardalis s. p.

			h m s	° ′ ″			
			6 30 53.383	+79 39 47.64			
1911							
Aug. 1	Hd.	WII	+0.08	+0.63	0	5.5	2
6	R.	WII	+0.13	+0.03	0	5.5	1
9	Fn.	EII	+0.01	+0.39	0	6.2	4
10	R.	EII	+0.08	+0.65	0	5.0	1½
1912							
June 10	Hd.–Fn.	EII	----	+0.19	0	---	4 R.
10	Hd.–Fn.	EII	----	−0.20	0	---	4
11	Hd.–Fn.	EII	----	+0.72	0	---	4 R.
11	Hd.–Fn.	EII	----	−0.08	0	---	4
20	Fn.–Hd.	EII	----	+0.96	0	---	-- R.
20	Fn.–Hd.	EII	----	+0.12	0	---	--
July 2	Fn.–Hd.	EII	----	+0.04	0	---	-- R.
2	Fn.–Hd.	EII	----	+0.31	0	---	--
3	Hd.–Fn.	WII	----	+0.28	0	---	-- R.
3	Hd.–Fn.	WII	----	+0.06	0	---	--
5	Hd.–Fn.	WII	----	−0.03	0	---	-- R.
5	Hd.–Fn.	WII	----	+0.01	0	---	--
6	Fn.–Hd.	WII	----	+0.33	0	---	-- R.
8	Fn.–Hd.	WII	----	+0.14	0	---	-- R.
8	Fn.–Hd.	WII	----	−0.03	0	---	--
1915							
July 9	Fn.	WI	−0.11	−0.21	0	5.5	3
14	An.	WI	----	−1.46	0	---	3½
Aug. 10	An.	EI	----	−0.29	0	6.5	3
15	Wy.	EI	+0.07	−0.39	0	6.5	3
Mean	1912.92		+0.043	−0.03			
	1913.07						
Corr			−0.081	+0.48			

[1] Double; n. pr. component observed.

[2] Double; s. fol. component observed.

ξ^2 Canis Majoris

			h m s	° ′ ″			
			6 31 17.084	−22 53 32.80			
1912							
Nov. 12	R.	EII	−0.034	−1.83	0	---	--
16	R.	EII	−0.018	−2.21	I	4.4	2
Dec. 3	R.	WII	−0.040	−2.33	0	---	2
22	R.	WII	−0.023	−2.02	0	5.5	3½
1914							
Feb. 7	Hd.	EI	+0.059	−2.78	0	5.5	3½
9	Fn.	EI	+0.016	−2.27	0	5.0	3½
16	Fn.	WI	+0.060	−2.65	0	5.0	3
17	Wy.	WI	−0.135	−3.46	0	5.5	3½
Mean	1913.52		−0.014	−2.44			
Corr			−0.081	−0.05			

Piazzi VI 171

			h m s	° ′ ″			
1912							
Jan. 21	Hd.	WII	6 32 9.558	−5 8 10.14	0	5.5	3
22	Hd.	WII	9.531	9.33	0	6.0	--
24	R.	EII	9.526	8.28	0	5.5	2
Feb. 8	Fn.	EII	9.557	9.79	0	6.0	3
1915							
Oct. 22	Hd.	WI	9.535	9.43	0	---	3
23	Wy.	WI	9.561	8.53	0	6.0	3½
Nov. 5	Fn.	EI	9.498	8.54	0	5.5	3
7	Hd.	EI	9.495	9.10	0	6.0	3
Mean	1913.95		6 32 9.533	−5 8 9.14			
Corr			−0.081	−0.16			

51 Aurigæ

			h m s	° ′ ″			
			6 32 25.405	+39 28 15.12			
1912							
Nov. 18	Fn.	EII	−0.035	+0.35	0	5.5	1½
22	Fn.	EII	+0.022	−0.52	0	5.7	1½
Dec. 30	Fn.	WII	−0.008	+0.34	0	5.5	2
1913							
Jan. 9	R.	WII	−0.003	+0.15	I	4.9	1½
1914							
Feb. 2	Fn.	WI	−0.008	+0.74	0	---	2½
3	Wy.	EI	+0.009	−0.33	0	---	3
4	Hd.	EI	+0.044	+0.11	0	6.0	2
15	Fn.	WI	+0.027	−0.59	0	---	2
1916							
Feb. 3	Hd.	EI	+0.054	----	0	6.0	2
7	Wy.	EI	+0.055	----	0	6.5	3
21	Fn.	WI	+0.030	----	0	---	3
1917							
Jan. 28	Hd.	EI	+0.012	----	0	---	2
Mar. 8	Wy.	WI	−0.010	----	0	6.5	3
1918							
Jan. 29	Wy.	WII	−0.011	----	0	6.0	2½
Mar. 5	Hd.	EII	+0.016	----	0	6.0	2
11	Hd.	WII	−0.023	----	0	---	2½
23	*Fn.*	*WII*	*+0.017*	----	*0*	---	*1½*
Mean	1915.33		+0.011	+0.03			
	1913.52						
Corr			−0.081	−0.27			

Bradley 975 [1]

			h m s	° ′ ″			
1912							
Dec. 19	R.	EII	6 32 26.456	−18 35 7.81	0	6.0	2½
1913							
Jan. 21	Hd.	EII	26.412	7.82	0	6.0	3
30	Hd.	WII	26.437	7.99	0	---	3
Feb. 6	R.	WII	26.437	8.57	0	---	5
8	Hd.	WII	26.418	8.05	0	6.0	3
1914							
Feb. 25	Hd.	EI	26.402	7.73	0	---	3
26	Fn.	EI	26.482	7.54	0	6.5	3
1914							
Feb. 27	Wy.	EI	26.432	7.58	0	---	3
Mar. 9	Fn.	WI	26.437	8.38	0	6.0	2½
10	Wy.	WI	26.494	7.30	0	6.2	2½
Mean	1913.62		6 32 26.441	−18 35 7.88			
Corr			−0.081	−0.09			

γ Geminorum

			h m s	° ′ ″			
			6 32 30.809	+16 28 36.15			
1911			s	″	″		
July 21	*R.*	*EII*	*+0.019*	*−0.55*	*−0.52*	*0*	--- --
25	*R.*	*WII*	*+0.065*	*−0.49*	*−0.44*	*0*	--- --
Aug. 10	*Fn.*	*EII*	-----	*−0.03*	*−0.04*	*0*	--- --
18	*R.*	*EII*	*−0.013*	*−0.82*	*−0.80*	*0*	--- --
23	*R.*	*WII*	-----	*+0.18*	*+0.20*	*0*	--- --
Sept. 1	*R.*	*WII*	*+0.009*	*−0.23*	*−0.25*	*0*	--- --
11	*Hd.*	*WII*	*+0.001*	*−0.43*	*−0.45*	*0*	--- --
13	*Fn.*	*WII*	-----	*+0.04*	*+0.12*	*0*	--- *2½*
25	*Hd.*	*EII*	*+0.016*	*−0.06*	*−0.11*	*0*	--- --
26	*R.*	*EII*	-----	*−0.57*	*−0.55*	*0*	--- --
1912							
Feb. 1	Fn.	EII	+0.008		+0.20	0	--- 3
17	R.	EII	+0.051		----	II	2.1 1½
22	R.	WII	+0.059		----	I	--- 3
23	Hd.	WII	+0.027		----	II	2.1 2
27	Hd.	WII	−0.003		−0.07	II	2.1 --
28	R.	WII	−0.007		−0.05	II	2.1 2
Mar. 1	Hd.	WII	+0.016		+0.32	II	2.1 --
2	R.	WII	+0.031		−0.61	II	2.6 1½
5	Hd.	WII	+0.034		+0.02	0	--- 2
7	Fn.	WII	+0.025		−0.03	II	1.9 2
9	R.	EII	−0.022		+0.73	II	2.6 1½
10	Fn.	EII	+0.003		+1.02	II	2.2 2
13	Fn.	EII	+0.019		+0.51	I	--- 2
Apr. 4	*Hd.*	*EII*	-----	*−0.49*	*−0.47*	*II*	--- *2*
Aug. 11	*Fn.*	*EII*	*−0.022*	*−1.51*	*−1.47*	*0*	--- --
12	*R.*	*EII*	-----	*−0.33*	*−0.36*	*0*	--- *4*
18	*Fn.*	*WII*	-----	*−0.53*	*−0.51*	*0*	--- *3½*
23	*R.*	*WII*	*+0.056*	*−1.05*	*−1.07*	*0*	--- --
29	*Fn.*	*WII*	*−0.004*	*−0.35*	*−0.35*	*0*	--- *2½*
Dec. 12	R.	EII	+0.011		+0.38	II	2.6 2½
16	Fn.	EII	+0.027		----	I	--- 1½
21	R.	EII	+0.011		+0.47	II	2.1 2
1913							
Jan. 8	Fn.	WII	+0.019		−0.83	I	1.9 2
22	Fn.	EII	+0.028		+0.42	I	2.5 1½
25	Hd.	EII	−0.020		−0.04	I	1.9 3
26	Hd.	EII	+0.018		−0.07	II	2.1 3
28	R.	EII	+0.021		−0.78	II	2.6 1½
Feb. 10	Fn.	WII	+0.020		−0.36	0	--- 2½
13	R.	WII	+0.006		−0.89	II	2.1 2½
14	Fn.	WII	+0.015		−0.06	II	2.3 2
17	Fn.	EII	+0.029		0.00	I	--- 3
18	Hd.	EII	+0.032		+0.73	II	2.1 1½
19	Fn.	EII	+0.005		−0.21	I	2.5 2
21	Fn.	EII	+0.005		+0.01	I	2.4 2
25	Hd.	EII	−0.005		+0.38	II	1.6 3
Dec. 8	Hd.	EI	+0.028		----	II	2.1 2
9	Fn.	EI	+0.014		+0.51	I	1.9 2
11	Hd.	EI	+0.013		----	II	2.1 2
12	Fn.	EI	+0.043		+0.08	I	--- 3½
13	R.	EI	+0.051		−0.18	II	2.1 2
19	Fn.	WI	+0.017		−0.26	I	1.9 2
26	Fn.	WI	+0.033		−0.31	I	--- 3
30	Fn.	WI	+0.055		−0.04	II	2.1 2
1914							
Jan. 5	Hd.	EI	+0.002		+0.16	II	2.6 3
8	Hd.	EI	+0.014		+0.33	I	--- 3
16	Wy.	EI	−0.003		+0.01	I	--- 3½
27	Fn.	WI	+0.053		+0.35	I	2.4 2½
28	Wy.	WI	+0.004		−1.22	I	1.9 3
29	R.	WI	+0.029		----	I	--- 3½
31	Wy.	WI	+0.051		+0.57	I	2.4 3
Mar. 7	Hd.	EI	−0.004		+0.56	II	2.6 2
8	Hd.	EI	+0.007		+0.47	II	2.1 2

[1] Double; n. fol. component observed.

				s	"	"				
1914										
June	17	*Wy.*	*EI*	-----	*−0.67*	*−0.54*	*0*	---	4	
July	28	*Fn.*	*EI*	*−0.007*	*+0.17*	*+0.22*	*0*	---	3½	
Aug.	6	*Hd.*	*EI*	*+0.052*	*−0.43*	*−0.46*	*0*	---	3	
	10	*Wy.*	*WI*	-----	*−0.41*	*−0.37*	*0*	---	3½	
	12	*Hd.*	*WI*	*−0.007*	*−0.20*	*−0.17*	*0*	---	2½	
	13	*Wy.*	*WI*	*+0.013*	*−0.95*	*−0.96*	*0*	---	3½	
	16	*Fn.*	*WI*	*+0.006*	*−0.37*	*−0.36*	*0*	---	3½	
	17	*Wy.*	*WI*	*+0.006*	*−0.47*	*−0.47*	*0*	---	4	
	19	*Fn.*	*WI*	*+0.009*	*−0.46*	*−0.44*	*0*	---	3½	
	20	*Wy.*	*WI*	-----	*+0.19*	*+0.23*	*0*	---	3½	
	21	*An.*	*WI*	*+0.007*	*+0.39*	*+0.40*	*0*	---	3½	
	30	*Fn.*	*WI*	*−0.016*	*+0.42*	*+0.39*	*0*	---	3	
	31	*An.*	*WI*	*−0.006*	*+0.30*	*+0.30*	*0*	---	3	
Sept.	1	*Wy.*	*WI*	*−0.009*	*−0.55*	*−0.57*	*0*	---	3	
	4	*Wy.*	*WI*	*+0.016*	*+0.18*	*+0.19*	*I*	---	3½	
	14	*An.*	*EI*	*−0.061*	*+0.22*	*+0.20*	*I*	---	2½	
	28	*An.*	*WI*	-----	*+0.34*	*+0.33*	*I*	---	3	
1915										
Jan.	16	An.	WI	+0.015		+0.28	II	3.1	2½	
Apr.	6	*Hd.*	*EI*	-----	*+0.01*	*−0.03*	*I*	---	2	
May	31	*Wy.*	*WI*	*+0.009*	*+0.51*	*+0.57*	*0*	---	4½	
June	8	*Hd.*	*EI*	*+0.038*	----	----	*0*	---	3	
	9	*An.*	*EI*	*+0.099*	----	----	*0*	---	4	
	11	*Hd.*	*WI*	-----	*−0.87*	*−0.83*	*0*	---	3½	
July	8	*Fn.*	*WI*	*+0.016*	----	----	*0*	---	3½	
Aug.	3	*Hd.*	*EI*	-----	*−0.48*	*−0.42*	*0*	---	3½	
	12	*An.*	*EI*	*−0.010*	*+0.09*	*+0.11*	*0*	---	3	
	13	*Wy.*	*EI*	*−0.003*	*+0.20*	*+0.22*	*0*	---	3½	
	17	*Wy.*	*WI*	*+0.058*	*−0.93*	*−0.88*	*0*	---	3	
	18	*Fn.*	*WI*	*−0.005*	*−0.65*	*−0.64*	*0*	---	3½	
	19	*An.*	*WI*	-----	*+0.10*	*+0.10*	*0*	---	3	
	22	*Wy.*	*WI*	*+0.025*	*−0.40*	*−0.40*	*0*	---	3½	
	23	*Hd.*	*WI*	-----	*−0.45*	*−0.47*	*0*	---	3	
	24	*Wy.*	*WI*	*+0.028*	*−0.50*	*−0.47*	*0*	---	3½	
	25	*Hd.*	*WI*	*+0.038*	*+0.10*	*+0.10*	*0*	---	3	
Sept.	2	*Hd.*	*WI*	*+0.007*	*−0.56*	*−0.56*	*0*	---	3	
	8	*Wy.*	*WI*	*+0.016*	*+0.37*	*+0.36*	*0*	---	3	
Nov.	9	Wy.	WI	+0.044		+0.30	II	2.1	2	
	15	Wy.	WI	+0.013		----	II	2.1	2½	
	17	Fn.	WI	−0.003		+0.83	I	1.9	2	
	22	Hd.	EI	+0.028		----	II	2.6	2	
	24	Wy.	EI	+0.031		----	I	---	2½	
	27	Wy.	EI	+0.031		----	II	2.1	2½	
	29	Wy.	EI	+0.041		----	II	2.1	2	
	30	Hd.	EI	+0.043		----	II	2.6	2	
Dec.	2	Hd.	EI	+0.035		−0.43	II	2.6	2	
	4	Fn.	EI	+0.011		+0.93	I	1.9	2	
	6	Hd.	WI	+0.006		----	II	2.1	2	
	8	Wy.	WI	−0.003		----	I	---	2½	
	9	Fn.	WI	+0.060		----	I	---	2	
	10	Hd.	WI	−0.004		----	II	2.1	2	
	14	Wy.	WI	+0.018		+0.15	II	---	2½	
	21	Hd.	WI	+0.012		+0.03	II	2.6	2	
	22	Fn.	WI	+0.007		−0.67	I	1.9	2½	
1916										
Jan.	24	Hd.	EI	−0.002		+0.33	I	---	2	
Feb.	10	Fn.	WI	+0.005		----	I	2.4	2½	
	15	Fn.	WI	−0.009		+0.09	0	---	2½	
Mar.	4	Fn.	WI	+0.011		----	I	2.4	2½	
July	12	*Hd.*	*EI*	*+0.032*	*−1.23*	*−1.13*	*0*	---	3½	
	19	*Hd.*	*EI*	*+0.027*	*−0.75*	*−0.68*	*0*	---	3	
Aug.	17	*Wy.*	*EI*	*+0.055*	*+0.88*	*+0.89*	*0*	---	4	
	20	*Wy.*	*EI*	*−0.034*	*−0.27*	*−0.25*	*0*	---	3½	
	21	*Fn.*	*EI*	*+0.011*	*−1.06*	*−1.04*	*0*	---	3½	
	31	*Fn.*	*WI*	*−0.035*	*−0.54*	*−0.56*	*0*	---	3	
Sept.	2	*Fn.*	*WI*	*−0.012*	----	----	*0*	---	3	
	7	*Wy.*	*WI*	*+0.016*	*−0.39*	*−0.39*	*0*	---	3½	
	18	*Hd.*	*EI*	*−0.054*	*+0.61*	*+0.64*	*0*	---	3½	
	19	*Wy.*	*EI*	*−0.022*	*−0.50*	*−0.50*	*0*	---	3	
	21	*Hd.*	*EI*	*−0.010*	*−0.23*	*−0.20*	*I*	---	2	
	24	*Wy.*	*EI*	*−0.013*	*−0.62*	*−0.64*	*I*	---	3	
	25	*Hd.*	*EI*	*+0.026*	*−0.07*	*−0.10*	*I*	---	3	
1917										
Jan.	11	Wy.	EI	+0.028		−0.15	I	---	2½	
Mar.	9	Fn.	WI	+0.036		−0.39	I	2.9	2	
	12	Hd.	EI	+0.017		−0.76	II	3.1	2	
	19	Fn.	EI	+0.015		+0.35	I	2.4	2	
	20	Hd.	EI	+0.037		−0.13	II	2.6	2	
	22	Fn.	EI	+0.020		+0.66	I	1.9	2½	
	29	Wy.	WI	*+0.005*	*−0.67*	*−0.65*	*I*	---	3	
	30	*Fn.*	*WI*	*+0.026*	*−0.65*	*−0.66*	*0*	---	3	
Apr.	16	*Fn.*	*WI*	*+0.003*	*+0.60*	*+0.62*	*0*	---	3½	
	23	*Wy.*	*EI*	*−0.038*	*−0.17*	*−0.16*	*0*	---	3	
May	1	*Fn.*	*EI*	*−0.030*	*+1.29*	*+1.34*	*0*	---	3½	
	3	*Hd.*	*EI*	*−0.023*	*−0.42*	*−0.35*	*0*	---	3½	
	10	*Fn.*	*WI*	*+0.047*	*−0.12*	*−0.06*	*0*	---	3½	
	14	*Wy.*	*WI*	*+0.040*	*−0.13*	*−0.06*	*0*	---	3	
	15	*Hd.*	*WI*	*+0.039*	*−0.60*	*−0.56*	*0*	---	3	
	18	*Hd.*	*WI*	*+0.058*	*−0.46*	*−0.45*	*0*	---	3½	
July	29	*Wy.*	*EII*	*+0.025*	*−0.89*	*−0.82*	*0*	---	4	
	30	*Fn.*	*EII*	*+0.002*	*−1.41*	*−1.35*	*0*	---	3½	
Aug.	2	*Fn.*	*WII*	*−0.009*	*−0.51*	*−0.44*	*0*	---	3	
	5	*Hd.*	*WII*	*−0.032*	*−0.08*	*−0.09*	*0*	---	3	
	9	*Wy.*	*WII*	*−0.041*	*−0.96*	*−0.93*	*0*	---	3½	
	13	*Hd.*	*WII*	*+0.046*	*−0.21*	*−0.24*	*0*	---	3	
	24	*Wy.*	*EII*	*−0.033*	*−0.72*	*−0.70*	*0*	---	3½	
Sept.	3	*Fn.*	*EII*	*+0.002*	*+0.24*	*+0.27*	*0*	---	3	
	6	*Hd.*	*EII*	*−0.007*	*−0.36*	*−0.34*	*0*	---	3	
	10	*Fn.*	*EII*	*−0.017*	*−0.48*	*−0.46*	*0*	---	3	
	12	*Hd.*	*EII*	*+0.054*	*−0.11*	*−0.13*	*I*	---	3	
	16	*Hd.*	*EII*	*−0.014*	*−0.30*	*−0.28*	*I*	---	3	
1918										
Feb.	12	Fn.	WII	−0.015		−0.53	I	2.4	3	
	15	Fn.	WII	+0.012		−0.30	I	2.4	3	
	18	Fn.	EII	+0.030		+0.01	I	2.4	2½	
	28	Wy.	EII	−0.003		+0.16	I	---	3½	
Mar.	7	Fn.	EII	+0.031		−0.82	I	1.9	2	
	8	Wy.	EII	−0.003		−0.18	II	2.1	2½	
	15	Fn.	WII	+0.017		−0.62	I	2.4	2	
	18	Wy.	WII	+0.015		−0.72	II	2.1	3	
Apr.	26	*Wy.*	*WII*	*+0.054*	*−0.68*	*−0.65*	*I*	---	3	
	2	*Fn.*	*EII*	*+0.032*	*−0.37*	*−0.35*	*0*	---	3½	
	5	*Fn.*	*EII*	*−0.005*	*−0.11*	*−0.08*	*0*	---	3	
	15	*Fn.*	*EII*	*+0.019*	*−0.91*	*−0.89*	*0*	---	2	
July	28	*Fn.*	*WII*	-----	*−0.50*	*−0.48*	*0*	---	3½	
	31	*Fn.*	*WII*	*+0.043*	*−1.18*	*−1.08*	*0*	---	3½	
Aug.	12	*Wy.*	*WII*	*−0.013*	*−1.06*	*−1.01*	*0*	---	3½	
	14	*Fn.*	*WII*	*+0.004*	*+0.05*	*+0.10*	*0*	---	3½	
Mean			1914.69	+0.018		+0.01				
			1914.63							
Corr				−0.081		−0.22				

Lalande 12714

				h	m	s	°	′	″			
1912												
Feb.	2	Hd.	WII	6	32	58.307	+2	46	56.58	0	6.5	--
	4	Fn.	WII			58.264			56.15	0	5.8	3
	10	R.	EII			58.307			56.82	0	---	2
	13	Hd.	EII			58.317			56.18	0	6.0	--
1915												
Oct.	25	Wy.	WI			58.258			55.64	0	6.5	3½
	27	Fn.	WI			58.247			56.59	0	6.5	2½
Nov.	1	Hd.	EI			58.287			55.91	0	6.5	3½
	3	Wy.	EI			58.263			56.00	0	6.0	2½
Mean			1913.96	6	32	58.281	+2	46	56.23			
Corr						−0.081			−0.19			

Weisse$_2$ VI 900

				h	m	s	°	′	″			
1912												
Dec.	13	Fn.	EII	6	33	40.503	+22	6	38.46	0	6.6	1½
	16	Fn.	EII			40.509			38.85	0	6.5	1½
1913												
Jan.	14	R.	WII			40.455			38.62	0	6.0	1
Feb.	4	Hd.	WII			40.462			38.40	0	6.5	2
1914												
Feb.	11	Hd.	EI			40.482			38.16	0	6.5	2
	12	Fn.	EI			40.504			38.00	0	6.5	1½
	21	Hd.	WI			40.503			38.60	0	---	2
Mar.	3	Wy.	WI			40.452			39.21	0	7.0	3
Mean			1913.58	6	33	40.484	+22	6	38.54			
Corr						−0.081			−0.23			

ν Argûs

			h m s	° ′ ″			
			6 35 -----	−43 7 0.10			
1912							
Oct. 1	Hd.	EII	-----	+2.3	0	---	4
2	Hd.	EII	-----	−0.5	0	---	5
5	R.	EII	-----	−0.5	0	---	--
6	Hd.	WII	-----	+1.4	0	---	5
Dec. 3	R.	WII	-----	+1.1	0	---	--
1913							
Mar. 18	Fn.	WII	-----	−0.6	0	---	3½
22	R.	WII	-----	+0.4	0	---	--
Dec. 11	Hd.	EI	-----	−0.5	0	---	4½
1914							
Mar. 13	Wy.	WI	-----	−1.3	0	---	3½
1916							
Jan. 25	Fn.	EI	-----	+1.0	0	---	3½
Feb. 3	Hd.	EI	-----	+0.4	0	---	5
7	Wy.	EI	-----	+1.5	0	---	5
10	Fn.	WI	-----	−0.9	0	---	4½
Mar. 4	Fn.	WI	-----	−2.4	0	---	5
Mean------	1914.22		-----	+0.10			
Corr----------			-----	+0.55			

S Monocerotis [1]

			h m s	° ′ ″			
			6 36 1.312	+9 58 46.61			
1912							
Jan. 20	R.	WII	+0.009	−0.19	I	3.9	1½
21	Hd.	WII	+0.037	−0.18	I	3.9	--
Feb. 13	Hd.	EII	0.000	−0.76	I	4.4	--
14	R.	EII	+0.035	−0.18	0	---	2
1915							
Feb. 10	Hd.	EI	-----	+0.10	1	4.4	2
17	Fn.–Wy.	EI	-----	−0.10	0	5.0	2½
18	Hd.–An.	EI	-----	−0.46	0	---	3 R.
19	Fn.–Wy.	EI	-----	−1.12	0	---	2½ R.
20	An.–Hd.	WI	-----	+0.76	I	4.9	2
21	An.–Hd.	WI	-----	−1.38	0	---	-- R.
22	Wy.–Fn.	WI	-----	−0.04	I	3.9	3
Mar. 1	Wy.–Fn.	WI	-----	−0.20	0	---	3½ R.
2	Wy.–Fn.	WI	-----	−0.70	0	5.5	3½
Nov. 24	Wy.	EI	+0.025	−0.13	I	4.4	3
27	Wy.	EI	+0.013	+0.62	I	4.4	3
Dec. 9	Fn.	WI	+0.047	−0.68	0	5.0	2
10	Hd.	WI	+0.013	−0.16	I	4.4	2
Mean------	1914.00		+0.022	−0.13			
	1914.44						
Corr----------			−0.081	−0.21			

Weisse₁ VI 999

			h m s	° ′ ″			
1912							
Oct. 26	R.	EII	6 36 17.498	+11 5 14.59	0	5.5	2
29	R.	EII	17.523	14.40	0	6.0	3
Nov. 4	R.	WII	17.475	14.49	0	6.5	2
9	Fn.	WII	17.481	14.60	0	6.7	1½
1913							
Nov. 22	R.	WI	17.488	15.05	0	6.0	2½
Dec. 3	R.	EI	17.499	14.43	0	6.0	2½
5	R.	EI	17.486	14.26	0	6.0	2½
18	Hd.	WI	17.481	15.06	0	6.5	2
Mean------	1913.38		6 36 17.491	+11 5 14.61			
Corr----------			−0.081	−0.21			

B. D.+39° 1713

			h m s	° ′ ″			
1917							
Mar. 6	Fn.	WI	6 36 -----	+38 58 48.16	0	7.5	2
8	Wy.	WI	-----	48.47	0	7.5	3
12	Hd.	EI	-----	48.02	0	7.5	2
15	Wy.	EI	-----	47.64	0	---	3
Mean------	1917.19		6 36 -----	+38 58 48.07			
Corr----------			-----	−0.27			

Weisse₂ VI 1001

			h m s	° ′ ″			
1912							
Jan. 9	R.	EII	6 36 52.730	+32 38 44.43	0	6.0	2½
10	Hd.	EII	52.711	44.51	0	6.5	2
16	R.	WII	52.721	44.48	0	7.5	2
19	Fn.	WII	52.697	45.10	0	6.9	2
1915							
Nov. 7	Hd.	EI	52.709	44.19	0	6.5	2
9	Wy.	WI	52.735	44.26	0	7.0	2
17	Fn.	WI	52.719	44.94	0	6.5	2
22	Hd.	EI	52.765	44.01	0	7.0	2
Mean------	1913.95		6 36 52.723	+32 38 44.49			
Corr----------			−0.081	−0.26			

ε Geminorum

			h m s	° ′ ″			
			6 38 23.738	+25 13 15.51			
			s	″ ″			
1911							
Aug. 18	*R.*	*EII*	*−0.049*	---- ----	*0*	---	--
21	*R.*	*EII*	*+0.110*	---- ----	*0*	---	--
Sept. 6	*Fn.*	*WII*	*+0.019*	*−0.76 − 0.75*	*0*	---	*2*
1912							
Jan. 4	Fn.	EII	+0.009	----	I	2.6	2
22	Hd.	WII	+0.051	−0.14	I	2.9	--
24	R.	EII	+0.045	----	II	2.6	1½
27	R.	EII	+0.006	----	II	2.6	1
Feb. 2	Hd.	WII	+0.012	----	I	2.9	--
8	Fn.	EII	+0.033	----	0	---	-
27	Hd.	WII	−0.008	----	I	2.9	--
28	R.	WII	+0.025	----	II	2.6	1½
Mar. 1	Hd.	WII	+0.007	+0.30	II	2.9	2
2	R.	WII	+0.010	----	I	3.4	2
5	Hd.	WII	+0.013	----	0	---	--
7	Fn.	WII	+0.023	----	I	---	1½
9	R.	EII	−0.012	----	I	---	2½
10	Fn.	EII	+0.029	----	I	2.8	2
13	Fn.	EII	−0.023	+0.25	I	3.9	2
16	Fn.	EII	+0.016	−0.51	I	3.1	1½
Apr. 4	*Hd.*	*EII*	-----	*−0.87 −0.85*	*I*	---	*1½*
8	*Hd.*	*WII*	-----	*−1.05 −1.04*	*0*	---	*3*
Aug. 29	*Fn.*	*WII*	*+0.021*	*−0.86 −0.86*	*0*	---	*2*
Nov. 12	R.	EII	+0.014	−0.10	0	---	2
16	R.	EII	+0.020	−1.04	II	2.6	2
Dec. 12	R.	EII	−0.013	----	II	2.6	1½
13	Fn.	EII	−0.001	----	I	2.6	2
19	R.	EII	+0.019	−0.09	I	3.4	2½
21	R.	EII	−0.001	+0.05	I	2.9	2
30	Fn.	WII	+0.037	----	I	2.9	3½
1913							
Jan. 9	R.	WII	+0.015	----	I	---	--
22	Fn.	EII	+0.034	----	I	---	1½
25	Hd.	EII	−0.005	−0.48	I	3.1	2
26	Hd.	EII	+0.020	----	0	---	2
28	R.	EII	+0.030	----	I	3.4	1½
30	Hd.	WII	+0.027	−0.14	I	3.4	2
Feb. 4	Hd.	WII	+0.012	−0.28	I	2.9	3
6	R.	WII	+0.012	----	I	2.9	2½
7	Fn.	WII	+0.024	----	I	2.9	3
8	Hd.	WII	+0.014	----	I	2.9	2
10	Fn.	WII	−0.002	----	0	---	2½
12	Fn.	WII	+0.024	----	I	2.9	1½
13	R.	WII	−0.001	----	I	2.4	3
14	Fn.	WII	+0.026	----	I	2.9	2
15	Hd.	WII	+0.005	----	I	2.9	2
17	Fn.	EII	+0.048	----	I	---	3
18	Hd.	EII	+0.021	----	I	3.1	1½
19	Fn.	EII	+0.027	----	I	3.2	2
21	Fn.	EII	+0.027	----	I	2.7	2
25	Hd.	EII	+0.025	----	II	2.6	2½
Dec. 30	Fn.	WI	+0.039	----	I	2.9	2
1914							
Jan. 5	Hd.	EI	+0.025	−0.44	I	2.9	3
8	Hd.	EI	+0.011	−0.30	I	3.4	3
15	Hd.	EI	+0.050	- -	I	2.9	3
16	Wy.	EI	−0.012	- -	I	2.9	3½

[1] Double; n. fol. component observed.

				s	″	″			
1914									
Jan.	31	Wy.	WI	+0.009		----	I	2.9	3
Feb.	2	Fn.	WI	−0.012		----	0	---	2½
	4	Hd.	EI	+0.033		----	I	2.9	2
	7	Hd.	EI	+0.026		----	I	2.9	2
	9	Fn.	EI	+0.042		----	I	---	3
	11	Hd.	EI	+0.008		----	I	2.9	2
	12	Fn.	EI	+0.018		+0.01	I	3.4	2
	15	Fn.	WI	+0.025		----	0	---	2
	16	Fn.	WI	+0.023		----	I	2.9	2
	17	Wy.	WI	+0.005		+0.75	I	2.9	2½
	21	Hd.	WI	+0.022		−0.63	I	3.4	2
	25	Hd.	EI	+0.004		−0.13	I	---	2
	26	Fn.	EI	−0.020		----	I	2.9	2
	27	Wy.	EI	−0.023		----	I	2.9	3
Mar.	3	Wy.	WI	−0.023		----	I	3.4	2½
	4	Hd.	WI	+0.022		----	I	3.4	2
	7	Hd.	EI	+0.039		----	I	3.4	2
	8	Hd.	EI	+0.032		----	I	3.4	2
	9	Fn.	WI	+0.024		----	I	3.4	2
	10	Wy.	WI	−0.007		+1.85	I	2.9	2
	18	Hd.	EI	+0.036		----	I	2.9	2
	21	Hd.	EI	+0.064		----	I	3.4	3
Aug.	*13*	*Wy.*	*WI*	*+0.067*	*−0.86*	*−0.86*	*0*	---	*3½*
	17	*Wy.*	*WI*	*−0.025*	*−0.61*	*−0.61*	*0*	---	*3½*
	19	*Fn.*	*WI*	*+0.057*	*−1.00*	*−0.99*	*0*	---	*3½*
	21	*An.*	*WI*	*+0.016*	----	----	*0*	---	--
	30	*Fn.*	*WI*	*−0.053*	*−0.29*	*−0.31*	*0*	---	*3*
	31	*An.*	*WI*	*−0.050*	*−0.21*	*−0.21*	*0*	---	*3*
Sept.	*1*	*Wy.*	*WI*	*+0.001*	----	----	*0*	---	*3*
	4	*Wy.*	*WI*	*+0.021*	----	----	*0*	---	*3*
	14	*An.*	*EI*	*−0.023*	----	----	*I*	---	*2½*
1915									
Jan.	16	An.	WI	+0.006		----	I	---	3
	25	Fn.	EI	+0.009		----	I	2.9	2½
Apr.	*7*	*Wy.*	*EI*	*+0.072*	----	----	*0*	---	*3½*
May	*31*	*Wy.*	*WI*	*+0.024*	*−1.35*	*−1.29*	*0*	---	*3½*
June	*8*	*Hd.*	*EI*	*−0.027*	*−1.00*	*−0.96*	*0*	---	*3*
Aug.	*3*	*Hd.*	*EI*	-----	*−0.84*	*−0.80*	*0*	---	*3½*
	12	*An.*	*EI*	*−0.014*	----	----	*0*	---	*3*
	13	*Wy.*	*EI*	*+0.024*	*−0.59*	*−0.58*	*0*	---	*3½*
	17	*Wy.*	*WI*	*+0.009*	*−0.22*	*−0.19*	*0*	---	*3*
	18	*Fn.*	*WI*	*0.000*	*−1.15*	*−1.14*	*0*	---	*3½*
	22	*Wy.*	*WI*	*+0.033*	*−0.45*	*−0.45*	*0*	---	*3½*
	23	*Hd.*	*WI*	-----	*+0.38*	*+0.37*	*0*	---	*3*
	24	*Wy.*	*WI*	*+0.084*	----	----	*0*	---	*3½*
	25	*Hd.*	*WI*	*+0.039*	----	----	*0*	---	*3*
Sept.	*2*	*Hd.*	*WI*	*+0.022*	----	----	*0*	---	*3*
	8	*Wy.*	*WI*	*+0.028*	----	----	*0*	---	*3*
	9	*Hd.*	*WI*	*+0.023*	----	----	*0*	---	*2½*
Oct.	*3*	*Wy.*	*WI*	*+0.008*	----	----	*I*	---	*2*
	12	Fn.	WI	+0.075		−0.49	I	2.9	2
	22	Hd.	WI	+0.020		−0.06	I	3.9	3
	23	Wy.	WI	+0.029		----	I	3.4	3
	25	Wy.	WI	+0.014		−0.52	I	3.4	3
	27	Fn.	WI	+0.004		----	I	3.4	2
	29	Hd.	EI	+0.041		----	I	3.4	3
	30	Fn.	EI	+0.067		----	I	2.9	2½
Nov.	1	Hd.	EI	+0.032		−0.24	I	3.4	3
	3	Wy.	EI	+0.034		−0.68	I	2.9	2½
Dec.	2	Hd.	EI	+0.025		----	I	2.9	2
	4	Fn.	EI	−0.010		----	I	3.4	2½
	14	Wy.	WI	+0.024		----	I	---	3
	21	Hd.	WI	+0.012		----	I	2.9	2
	22	Fn.	WI	+0.014		----	I	2.9	2½
1916									
Jan.	24	Hd.	EI	−0.002		−0.06	0	---	2
Feb.	10	Fn.	WI	+0.022		----	0	---	2½
	16	Wy.	WI	−0.001		----	0	---	3
	21	Fn.	WI	+0.018		----	0	---	3
Sept.	*18*	*Hd.*	*EI*	*−0.101*	----	----	*0*	---	*3*
	19	*Wy.*	*EI*	*+0.006*	*+0.08*	*+0.08*	*0*	---	*3*
	21	*Hd.*	*EI*	*−0.015*	*−0.64*	*−0.63*	*0*	---	*2*
	25	*Hd.*	*EI*	*+0.020*	*−0.34*	*−0.36*	*I*	---	*3*
1917									
Mar.	9	Fn.	WI	+0.015		−0.11	I	3.4	2
	19	Fn.	EI	+0.025		−0.03	I	2.9	1½
	20	Hd.	EI	−0.008		----	I	2.9	2½
	22	Fn.	EI	−0.011		−0.20	I	2.9	2½

				s	″	″			
1917									
Mar.	*29*	*Wy.*	*WI*	*+0.021*	*+0.18*	*+0.19*	*0*	---	*3*
	30	*Fn.*	*WI*	*+0.061*	*−1.16*	*−1.18*	*0*	---	*3*
Apr.	*16*	*Fn.*	*WI*	*+0.042*	*−0.70*	*−0.69*	*0*	---	*3½*
	23	*Wy.*	*EI*	*−0.045*	*−0.03*	*−0.02*	*0*	---	*3*
May	*3*	*Hd.*	*EI*	*−0.035*	----	----	*0*	---	*3½*
	14	*Wy.*	*WI*	*+0.077*	*−0.01*	*+0.03*	*0*	---	*3*
July	*29*	*Wy.*	*EII*	-----	*+0.66*	*+0.70*	*0*	---	*4*
	30	*Fn.*	*EII*	*+0.024*	----	----	*0*	---	*3½*
Aug.	*9*	*Wy.*	*WII*	*−0.005*	*−0.35*	*−0.33*	*0*	---	*3½*
	13	*Hd.*	*WII*	*+0.029*	----	----	*0*	---	*3*
	20	*Wy.*	*WII*	*+0.083*	*−0.46*	*−0.45*	*0*	---	*4*
	24	*Wy.*	*EII*	*+0.024*	*−0.13*	*−0.12*	*0*	---	*3½*
Sept.	*3*	*Fn.*	*EII*	*+0.002*	----	----	*0*	---	*3*
	6	*Hd.*	*EII*	*+0.006*	----	----	*0*	---	*3*
	10	*Fn.*	*EII*	*+0.014*	----	----	*0*	---	*3*
	12	*Hd.*	*EII*	*+0.011*	----	----	*0*	---	*3*
	16	*Hd.*	*EII*	*−0.017*	----	----	*0*	---	*3*
1918									
Feb.	11	Wy.	WII	+0.020		−1.81	I	3.4	3
	12	Fn.	WII	+0.029		−1.50	I	3.4	3
	15	Fn.	WII	+0.021		−1.47	I	3.9	3
	18	Fn.	EII	+0.034		−1.00	0	---	2½
	28	Wy.	EII	+0.022		−0.29	I	3.9	3½
Mar.	5	Hd.	EII	+0.042		+0.06	I	3.4	2
	8	Wy.	EII	+0.040		0.00	I	3.4	2½
	11	Hd.	WII	−0.010		−0.40	I	3.4	2½
	15	Fn.	WII	+0.002		−1.03	I	2.9	2
	18	Wy.	WII	+0.039		−0.35	I	2.9	2½
	26	*Wy.*	*WII*	*+0.023*	*−0.57*	*−0.56*	*I*	---	*2½*
Apr.	*2*	*Fn.*	*EII*	*+0.034*	*−0.34*	*−0.33*	*0*	---	*3½*
	5	*Fn.*	*EII*	*+0.025*	*−0.81*	*−0.80*	*0*	---	*3*
July	*14*	*Wy.*	*EII*	*+0.015*	----	----	*0*	---	*4*
	31	*Fn.*	*WII*	*+0.061*	----	----	*0*	---	*3½*
Aug.	*14*	*Fn.*	*WII*	*+0.036*	----	----	*0*	---	*3½*
Mean		1914.38		+0.018		−0.30			
		1915.32							
Corr				−0.081		−0.24			

Bradley 976

				h	m	s	°	′	″			
1912												
Nov.	18	Fn.	EII	6	39	9.280	+57	15	49.73	D	5.6	1½
	20	Fn.	EII			9.358			49.22	0	6.0	1½
Dec.	3	R.	WII			9.280			48.87	D	6.0	1½
	9	Fn.	WII			9.300			49.04	0	5.6	3
1913												
Dec.	8	Hd.	EI			9.383			48.75	0	6.0	2
	9	Fn.	EI			9.251			48.92	0	6.0	2
	19	Fn.	WI			9.373			49.21	0	5.5	2½
	20	R	WI			9.286			49.19	0	5.5	1
Mean		1913.43		6	39	9.314	+57	15	49.12			
Corr						−0.081			−0.31			

B. D.+39° 1736

				h	m	s	°	′	″			
1917												
Mar.	6	Fn.	WI	6	39	-----	+39	3	49.73	D	8.0	2
	8	Wy.	WI			-----			49.29	0	7.5	3
	12	Hd.	EI			-----			48.54	0	7.5	2
	15	Wy.	EI			-----			48.40	0	7.5	3
Mean		1917.19		6	39	-----	+39	3	48.99			
Corr						-----			−0.27			

Lacaille 2417

				h	m	s	°	′	″			
1912												
Nov.	22	Fn.	EII	6	40	13.665	−25	26	38.42	0	7.7	3½
Dec.	12	R.	EII			13.585			37.65	D	7.5	3
	22	R.	WII			13.662			37.71	0	7.5	3
1913												
Jan.	9	R.	WII			13.651			37.88	0	7.0	2½

				h m s	° ′ ″			
1913								
Dec. 11	Hd.	EI		13. 645		37. 95	0	7. 5 3
12	Fn.	EI		13. 729		-----	0	7. 5 4½
13	R.	EI		13. 648		37. 45	0	6. 5 2
30	Fn.	WI		13. 679		37. 95	0	7. 0 3
1914								
Jan. 27	Fn.	WI		13. 684		36. 99	0	--- 4
28	Wy.	WI		13. 718		37. 07	0	8. 0 4
Mean------		1913. 58		6 40 13. 667	−25 26	37. 67		
		1913. 54						
Corr----------				−0. 081*		−0. 03		

ξ Geminorum

				h m s	° ′ ″			
				6 40 14. 288	+12 59	35. 27		
				s	″	″		
1911								
Aug. 18	*R.*	*EII*		*+0. 010*	*−1. 31*	*−1. 29*	*0*	--- --
21	*R.*	*EII*		*+0. 071*	*−1. 46*	*−1. 44*	*0*	--- --
Sept. 26	*R.*	*EII*		-----	*−1. 01*	*−0. 99*	*0*	--- --
1912								
Jan. 4	Fn.	EII		+0. 018		+0. 02	I	2. 7 2
Feb. 1	Fn.	EII		+0. 004		----	I	3. 2 2½
2	Hd.	WII		+0. 004		----	I	2. 9 --
4	Fn.	WII		+0. 023		----	0	--- --
Mar. 2	R.	WII		+0. 006		+0. 42	I	3. 4 2
5	Hd.	WII		+0. 009		+0. 24	0	--- 2
7	Fn.	WII		+0. 029		+0. 74	I	--- 1½
9	R.	EII		+0. 029		−0. 08	I	--- 2½
10	Fn.	WII		+0. 006		+0. 43	I	2. 8 2
17	R.	EII		+0. 006		−0. 43	II	3. 1 1
Dec. 13	Fn.	EII		+0. 035		−0. 12	I	3. 2 2
1913								
Jan. 22	Fn.	EII		+0. 021		----	I	--- 1½
26	Hd.	EII		+0. 019		−0. 35	0	--- 2
28	R.	EII		−0. 004		−0. 42	I	3. 9 2
Feb. 6	R.	WII		+0. 037		−0. 61	I	2. 9 3½
7	Fn.	WII		+0. 036		−0. 08	I	3. 1 3
8	Hd.	WII		0. 000		−0. 45	I	2. 9 2
10	Fn.	WII		+0. 038		+0. 14	0	--- 2½
12	Fn.	WII		+0. 026		----	I	3. 2 1½
13	R.	WII		+0. 025		−0. 16	I	2. 9 3½
14	Fn.	WII		+0. 037		+0. 27	I	3. 4 2
15	Hd.	WII		−0. 003		−0. 18	I	3. 1 2½
17	Fn.	EII		−0. 012		−0. 81	0	--- 3
18	Hd.	EII		+0. 015		+0. 08	I	2. 9 2
19	Fn.	EII		−0. 007		−0. 66	I	3. 5 2
21	Fn.	EII		+0. 035		−0. 42	I	2. 9 2
25	Hd.	EII		+0. 030		−0. 36	I	2. 9 2½
1914								
Jan. 15	Hd.	EI		+0. 031		+0. 22	I	3. 4 3
16	Wy.	EI		+0. 022		−0. 30	I	2. 8 3½
Feb. 3	Wy.	EI		+0. 022		−0. 08	I	--- 3
26	Fn.	EI		+0. 008		−0. 14	I	3. 4 2
27	Wy.	EI		+0. 033		+0. 12	I	3. 4 2½
Mar. 3	Wy.	WI		+0. 035		−0. 13	I	3. 9 2½
4	Hd.	WI		+0. 007		+0. 13	I	--- 3
7	Hd.	EI		+0. 004		+0. 34	I	--- 2
8	Hd.	EI		+0. 004		+0. 23	I	3. 4 2
9	Fn.	WI		+0. 027		−0. 52	I	3. 4 2
12	Fn.	WI		-----		+0. 89	I	3. 4 2
18	Hd.	EI		+0. 017		----	I	3. 4 3
21	Hd.	EI		−0. 024		+0. 33	0	--- 3
Sept. 1	*Wy.*	*WI*		*+0. 034*	*−0. 29*	*−0. 31*	*0*	--- *3*
4	*Wy.*	*WI*		*−0. 001*	*−0. 25*	*−0. 26*	*0*	--- *3*
27	*Wy.*	*WI*		-----	*0. 00*	*+0. 08*	*0*	--- *3½*
28	*An.*	*WI*		-----	*+0. 21*	*+0. 20*	*I*	--- *3½*
1915								
Jan. 16	An.	WI		+0. 017		+0. 08	I	--- 3
Apr. 6	*Hd.*	*EI*		-----	*0. 00*	*−0. 06*	*0*	--- *2*
7	*Wy.*	*EI*		*+0. 042*	----	----	*0*	--- *3½*
Aug. 12	*An.*	*EI*		*−0. 030*	----	----	*0*	--- *3*
19	*An.*	*WI*		-----	*−0. 20*	*−0. 20*	*0*	--- *3*
24	*Wy.*	*WI*		-----	*−0. 05*	*−0. 02*	*0*	--- *3½*
25	*Hd.*	*WI*		*+0. 056*	*−0. 64*	*−0. 64*	*0*	--- *3*
Sept. 2	*Hd.*	*WI*		*+0. 021*	*−0. 77*	*−0. 75*	*0*	--- *3*
7	*Hd.*	*WI*		*+0. 029*	*−0. 43*	*−0. 42*	*0*	--- *2*
8	*Wy.*	*WI*		*+0. 036*	*−0. 19*	*−0. 20*	*0*	--- *3½*
1915								
Sept. 9	*Hd.*	*WI*		*+0. 027*	*−0. 46*	*−0. 46*	*0*	--- *2½*
Oct. 3	*Wy.*	*WI*		*+0. 037*	*−0. 39*	*−0. 37*	*I*	--- *2½*
21	Fn.	WI		+0. 023		----	I	3. 4 3
23	Wy.	WI		−0. 006		+0. 28	I	3. 9 3
27	Fn.	WI		+0. 020		−0. 86	I	3. 4 2
28	Wy.	EI		+0. 009		−1. 25	I	--- 4
29	Hd.	EI		+0. 004		−0. 30	I	3. 4 3
30	Fn.	EI		+0. 049		−0. 30	I	3. 4 2½
Nov. 9	Wy.	WI		+0. 044		−0. 27	I	3. 4 2
Dec. 2	Hd.	EI		+0. 026		−0. 32	I	3. 4 2
4	Fn.	EI		+0. 022		−0. 65	I	3. 9 2½
22	Fn.	WI		−0. 027		−0. 66	I	3. 9 2½
1916								
Feb. 10	Fn.	WI		+0. 001		----	0	--- 2½
16	Wy.	WI		+0. 036		----	0	--- 3½
Mean------		1913. 84		+0. 017		−0. 14		
		1913. 85						
Corr----------				−0. 081		−0. 22		

ψ^5 Aurigæ

				h m s	°	″		
				6 40 15. 320	+43 40	4. 89		
1912								
Feb. 8	Fn.	EII		−0. 113		−0. 59	0	--- --
14	R.	EII		−0. 081		−0. 11	0	6. 5 2
27	Hd.	WII		−0. 103		+0. 41	0	5. 5 2
28	R.	WII		−0. 051		+0. 56	0	5. 5 2½
1915								
Nov. 29	Wy.	EI		−0. 058		+0. 49	I	4. 9 2
30	Hd.	EI		−0. 066		−0. 31	0	5. 5 3
Dec. 10	Hd.	WI		−0. 094		+0. 25	I	4. 9 2
21	Hd.	WI		−0. 098		+0. 35	0	5. 5 2
1916								
Feb. 7	Wy.	EI		−0. 074		----	0	6. 0 3
21	Fn.	WI		−0. 145		----	0	--- 3
1917								
Jan. 11	Wy.	EI		−0. 085		----	0	6. 5 2½
28	Hd.	EI		−0. 055		----	0	--- 2
1918								
Jan. 29	Wy.	WII		−0. 170		----	0	6. 0 2½
Mar. 23	Fn.	WII		−0. 136		----	0	5. 5 2
Mean------		1915. 35		−0. 095		+0. 13		
		1914. 03						
Corr----------				−0. 081		−0. 28		

Bradley 984

				h m s	° ′	″		
1912								
Dec. 20	Fn.	EII		6 40 47. 965	+48 53	7. 92	0	--- 2½
30	Fn.	WII		47. 946		7. 88	0	5. 3 3
1913								
Jan. 4	Hd.	WII		47. 987		7. 48	0	5. 5 2
18	Hd.	EII		47. 975		7. 43	0	5. 8 2
1914								
Jan. 31	Wy.	WI		48. 042		9. 53	0	6. 0 3
Feb. 2	Fn.	WI		48. 040		8. 50	0	--- 2½
4	Hd.	EI		48. 048		7. 86	0	6. 0 2
7	Hd.	EI		48. 013		7. 95	0	5. 5 2
Mean------		1913. 55		6 40 48. 002	+48 53	8. 07		
Corr----------				−0. 081		−0. 29		

α Canis Majoris

				h m s	° ′	″		
				6 41 10. 723[1]	−16 35	38. 44[1]		
				s	″	″		
1912								
Jan. 20	R.	WII		+0. 089		−0. 72	III	−1. 5 2
21	Hd.	WII		+0. 061		−0. 61	III	−2. 0 4
24	R.	EII		+0. 109		+0. 53	III	−1. 5 3½
27	R.	EII		+0. 044		−0. 09	III	−1. 5 2½
1915								
Nov. 24	Wy.	EI		+0. 045		−0. 58	III	−1. 0 3
27	Wy.	EI		+0. 088		−0. 30	III	−0. 5 3½
Dec. 8	Wy.	WI		+0. 054		−0. 95	II	--- 3½
9	Fn.	WI		+0. 088		−1. 22	II	−0. 4 2½
1916								
June 1	*Fn.*	*EI*		*+0. 064*	*−0. 07*	*+0. 32*	*0*	--- *4*
12	*Wy.*	*EI*		*+0. 057*	*+0. 11*	*+0. 35*	*I*	--- *4½*

[1] Center of orbit.

				s	″	″			
1916									
June 26	Hd.	WI		+0.039	+0.50	+0.82	0	---	3½
29	Hd.	WI		+0.032	−0.58	−0.08	0	---	3½
July 2	Wy.	WI		+0.054	−1.86	−1.43	0	---	4
12	Hd.	EI		+0.045	−0.55	−0.16	I	---	3½
17	Wy.	EI		+0.089	−0.51	−0.48	0	---	4
19	Hd.	EI		+0.058	----	----	0	---	4
26	Fn.	WI		+0.021	−0.49	−0.15	0	---	3½
Aug. 6	Wy.	EI		+0.084	−0.68	−0.63	0	---	3½
7	Fn.	EI		−0.045	−1.05	−0.95	0	---	3½
16	Fn.	EI		+0.130	−0.99	−0.95	0	---	3½
17	Wy.	EI		+0.100	+0.26	+0.32	II	---	3½
20	Wy.	EI		+0.055	−0.58	−0.47	I	---	3½
21	Fn.	EI		+0.080	−0.40	−0.34	0	---	3½
24	Fn.	WI		+0.046	−0.44	−0.43	I	---	3
31	Fn.	WI		−0.044	−0.62	−0.64	I	---	3
Sept. 7	Wy.	WI		+0.087	−1.03	−1.02	II	---	3
18	Hd.	EI		−0.012	+1.00	+1.07	II	---	3½
19	Wy.	EI		+0.040	−0.47	−0.46	II	---	3½
21	Hd.	EI		+0.045	−0.35	−0.26	II	---	3
24	Wy.	EI		+0.016	−0.17	−0.25	II	---	3
25	Hd.	EI		+0.074	+0.70	+0.58	II	---	3½
1917									
Mar. 20	Hd.	EI		+0.085		−0.35	II	---	3
Apr. 23	Wy.	EI		+0.026	−0.26	−0.17	II	---	3½
May 1	Fn.	EI		+0.027	−0.08	+0.08	0	---	3½
3	Hd.	EI		+0.038	+0.28	+0.55	II	---	3½
10	Fn.	WI		+0.126	−0.68	−0.50	0	---	3½
14	Wy.	WI		+0.073	−0.63	−0.40	I	---	4
15	Hd.	WI		+0.111	−0.18	−0.02	I	---	3½
18	Hd.	WI		+0.052	−0.59	−0.53	0	---	3
June 22	Fn.	WII		+0.069	−0.16	+0.34	0	---	4
July 16	Wy.	EII		-----	−0.28	−0.12	I	---	4
29	Wy.	EII		−0.032	+0.36	+0.59	I	---	4
30	Fn.	EII		+0.010	−0.24	−0.03	0	---	3½
Aug. 2	Fn.	WII		+0.083	−0.34	−0.10	0	---	3½
5	Hd.	WII		+0.055	+0.05	+0.06	I	---	3½
6	Wy.	WII		+0.082	−1.53	−1.25	0	---	4
9	Wy.	WII		+0.023	−0.62	−0.49	I	---	4
12	Fn.	WII		+0.051	+0.15	+0.23	0	---	3½
13	Hd.	WII		+0.056	−0.26	−0.32	I	---	3
16	Wy.	WII		+0.057	+0.30	+0.36	I	---	3½
20	Wy.	WII		+0.052	−0.19	−0.15	II	---	3½
24	Wy.	EII		+0.053	+0.07	+0.10	II	---	3½
Sept. 3	Fn.	EII		+0.073	+0.24	+0.35	0	---	3
6	Hd.	EII		+0.061	0.00	+0.09	I	---	3½
10	Fn.	EII		−0.004	−0.06	+0.01	I	---	3½
12	Hd.	EII		+0.041	−0.39	−0.48	II	---	3
16	Hd.	EII		+0.015	−0.43	−0.37	II	---	3
1918									
Feb. 28	Wy.	EII		+0.057		+0.39	II	---	3½
Mar. 7	Fn.	EII		+0.004		+0.09	II	−0.4	3
8	Wy.	EII		+0.076		−0.86	III	0.0	3
18	Wy.	WII		+0.057		−0.39	III	0.0	3
26	Wy.	WII		+0.060	−0.31	−0.23	III	---	3½
Apr. 2	Fn.	EII		+0.119	−0.48	−0.42	II	---	3½
5	Fn.	EII		+0.039	----	----	II	---	3
15	Fn.	EII		+0.032	−1.36	−1.34	I	---	3
July 14	Wy.	EII		+0.057	+0.23	+0.65	I	---	4
15	Hd.	EII		+0.085	+0.54	+0.67	I	---	3½
22	Fn.	EII		+0.107	−1.05	−0.79	0	---	3½
24	Fn.	EII		+0.107	−1.15	−1.06	0	---	3½
28	Fn.	WII		-----	−0.09	−0.03	0	---	3½
31	Fn.	WII		−0.004	−0.41	−0.05	0	---	3½
Aug. 1	Hd.	WII		+0.050	−0.90	−0.79	0	---	3½
11	Fn.	WII		+0.008	−0.59	−0.42	0	---	3½
12	Wy.	WII		+0.037	−0.97	−0.75	I	---	4
14	Fn.	WII		+0.070	−0.55	−0.38	0	---	3½
Mean	1915.53			+0.066		−0.39			
Corr				−0.081		−0.10			

Bradley 991

			h	m	s	°	′	″			
1912											
Oct. 26	R.	EII	6	41	37.979	+8	40	58.98	0	6.0	2
29	R.	EII			37.976			58.77	0	6.5	3
Nov. 4	R.	WII			37.962			59.03	0	---	3½
9	Fn.	WII			37.925			59.26	0	6.5	1½
1914											
Feb. 9	Fn.	EI			37.965			58.99	0	6.5	3
11	Hd.	EI			37.955			58.77	0	6.0	2½
15	Fn.	WI			37.971			59.85	0	---	2
16	Fn.	WI			37.929			58.81	0	6.0	2
Mean	1913.48		6	41	37.958	+8	40	59.06			
Corr					−0.081			−0.21			

18 Monocerotis

			h	m	s	°	′	″			
			6	43	10.059	+2	30	40.64			
1912											
Jan. 9	R.	EII			+0.003			+0.14	0	5.0	2½
10	Hd.	EII			+0.033			+0.05	I	3.9	3
16	R.	WII			+0.086			−0.27	I	4.4	4
19	Fn.	WII			+0.049			+1.25	0	5.0	2
1915											
Nov. 7	Hd.	EI			+0.023			+0.39	I	4.4	2½
17	Fn.	WI			+0.051			−0.90	0	5.0	2
22	Hd.	EI			+0.059			+0.07	I	4.9	2
Dec. 6	Hd.	WI			+0.077			−0.34	I	4.4	3
Mean	1913.96				+0.048			+0.05			
Corr					−0.081			−0.18			

Bradley 1001

			h	m	s	°	′	″			
1913											
Jan. 14	R.	WII	6	43	10.210	−20	55	3.78	0	7.0	1½
22	Fn.	EII			10.164			3.74	0	7.3	2½
25	Hd.	EII			10.194			3.23	0	6.5	3
Feb. 4	Hd.	WII			10.192			3.54	0	6.5	3½
Nov. 4	Fn.	EI			10.216			3.17	0	6.0	3
5	R.	EI			10.271			3.65	0	6.0	4
10	Hd.	WI			10.209			3.91	0	6.5	3½
20	Hd.	WI			10.166			3.85	0	6.5	3½
Mean	1913.46		6	43	10.203	−20	55	3.61			
Corr					−0.081			−0.07			

43 Camelopardalis

			h	m	s	°	′	″				
			6	44	0.433	+68	59	39.19				
1912												
Feb. 10	R.	EII			−0.12			+0.25	0	---	1	
13	Hd.	EII			−0.11			−0.05	0	5.5	--	
22	R.	WII			−0.23			+0.66	0	---	5	
23	Hd.	WII			−0.15			+0.23	I	4.9	--	
1915												
Feb. 10	Hd.	EI			----			−0.12	0	---	2	R.
17	Fn.–Wy.	EI			----			−0.14	0	---	2	R.
18	Hd.–An.	EI			----			−0.10	I	4.9	2½	
19	Fn.–Wy.	EI			----			+0.32	0	5.0	2½	
20	An.–Hd.	WI			----			+0.37	0	---	2	R.
21	An.–Hd.	WI			----			−0.10	I	5.4	2½	
Mar. 1	Wy.–Fn.	WI			----			+0.58	I	4.9	3	
2	Wy.–Fn.	WI			----			+1.62	0	---	--	R.
Oct. 12	Fn.	WI			−0.13			−0.46	0	5.5	2	
21	Fn.	WI			−0.02			−0.57	0	5.5	3	
Nov. 1	Hd.	EI			−0.12			−0.24	0	5.5	3½	
3	Wy.	EI			−0.12			−0.28	0	5.5	2½	
Mean	1913.97				−0.125			+0.02				
	1914.36											
Corr					−0.081			−0.34				

43 Camelopardalis S. P.

			h	m	s	°	′	″			
			6	44	0.432	+68	59	39.19			
1911											
July 14	Hd.	WII			−0.15			−0.64	0	5.5	4
15	R.	WII			−0.19			−1.49	0	---	--

			s	"			
1911							
July 20	Fn.	EII	+0.08	−1.01	0	---	--
24	Fn.	EII	−0.04	−1.72	0	---	--
1915							
June 18	Hd.	WI	−0.14	−0.88	0	---	3½
July 6	Fn.	WI	+0.02	−2.44	0	---	3½
8	Hd.	WI	----	+0.64	0	6.5	3½
22	Fn.	EI	−0.08	−0.24	0	6.0	3½
23	Hd.	EI	−0.02	−0.36	0	6.5	3
Mean	1913.53		−0.065	−0.90			
	1913.75						
Corr			−0.081	+0.64			

ψ^7 Aurigæ

			h m s	° ′ ″			
1916							
Feb. 7	Wy.	EI	6 44 24.222	+41 53 -----	0	5.5	3
1917							
Jan. 11	Wy.	EI	24.212	-----	0	6.0	2½
Mar. 8	Wy.	WI	24.211	-----	0	5.0	2½
1918							
Jan. 29	Wy.	WII	24.194	-----	0	5.5	2½
Mar. 5	Hd.	EII	24.226	-----	0	6.0	3
11	Hd.	WII	24.200	-----	0	6.0	2
23	Fn.	WII	24.165	-----	0	5.0	1½
Mean	1917.57		6 44 24.204	+41 53 -----			
Corr			−0.081	-----			

Bradley 997

			h m s	° ′ ″			
1912							
Feb. 16	Hd.	EII	6 44 39.024	+16 18 20.72	0	6.5	2
17	R.	EII	39.024	20.81	0	---	1½
28	R.	WII	39.053	20.10	0	5.5	2
Mar. 1	Hd.	WII	39.046	21.23	0	6.0	--
1915							
Oct. 22	Hd.	WI	39.024	20.29	0	6.0	3
23	Wy.	WI	39.025	20.60	0	5.5	3
28	Wy.	EI	39.037	20.89	0	6.5	3½
29	Hd.	EI	39.004	20.81	0	6.0	3
Mean	1913.98		6 44 39.030	+16 18 20.68			
Corr			−0.081	−0.22			

Lalande 13143

			h m s	° ′ ″			
1912							
Nov. 16	R.	EII	6 44 44.424	−2 10 11.38	0	6.0	2
20	Fn.	EII	44.399	11.71	0	6.4	2
Dec. 3	R.	WII	44.421	11.59	0	---	1½
22	R.	WII	44.407	11.20	0	6.0	3½
1913							
Dec. 8	Hd.	EI	44.489	10.41	0	6.5	3
9	Fn.	EI	44.507	11.40	0	6.5	2½
18	Hd.	WI	44.468	10.70	0	6.0	3
19	Fn.	WI	44.451	11.90	0	6.0	2½
Mean	1913.44		6 44 44.446	−2 10 11.29			
Corr			−0.081	−0.17			

Pulkowa 1855, 1121 *mean*

			h m s	° ′ ″			
1912							
Feb. 1	Fn.	EII	6 44 52.876	−15 2 34.03	0	---	3
2	Hd.	WII	53.009	33.86	0	5.5	3
4	Fn.	WII	52.963	33.79	0	5.7	3
8	Fn.	EII	52.923	34.03	0	5.4	3
1915							
Oct. 27	Fn.	WI	52.965	34.04	0	5.5	3
30	Fn.	EI	52.965	33.70	0	5.5	3
Nov. 5	Fn.	EI	52.935	33.21	0	6.0	3
9	Wy.	WI	52.958	33.58	0	6.0	3
Mean	1913.96		6 44 52.949	−15 2 33.78			
Corr			−0.081	−0.11			

Weisse$_2$ VI 1310

			h m s	° ′ ″			
1912							
Nov. 22	Fn.	EII	6 46 25.158	+25 46 9.86	0	7.0	1½
Dec. 9	Fn.	WII	25.109	9.99	0	6.8	2½
12	R.	EII	25.152	10.34	0	7.5	2
1913							
Jan. 9	R.	WII	25.063	9.58	0	7.0	1½
Dec. 20	R.	WI	25.152	10.76	0	6.5	2
26	Fn.	WI	25.111	10.18	0	7.0	3
1914							
Jan. 5	Hd.	EI	25.109	10.32	0	7.0	3
8	Hd.	EI	25.101	10.12	0	7.0	2½
Mean	1913.47		6 46 25.119	+25 46 10.14			
Corr			−0.081	−0.24			

κ Canis Majoris

			h m s	° ′ ″			
1912							
Jan. 20	R.	WII	6 46 28.783	−32 24 14.16	I	4.4	3½
21	Hd.	WII	28.823	15.10	I	3.9	5
24	R.	EII	28.828	13.91	0	---	4
27	R.	EII	28.691	12.85	0	---	5
1915							
Nov. 24	Wy.	EI	28.727	15.04	0	---	3½
27	Wy.	EI	28.798	14.55	I	4.4	3½
Dec. 8	Wy.	WI	28.746	13.90	0	---	4
9	Fn.	WI	28.804	16.72	0	---	3½
Mean	1913.99		6 46 28.775	−32 24 14.53			
Corr			−0.081	+0.08			

B. D.+39° 1771

			h m s	° ′ ″			
1917							
Mar. 6	Fn.	WI	6 46 -----	+38 58 38.49	0	7.0	2
8	Wy.	WI	-----	38.92	0	6.5	2½
12	Hd.	EI	-----	38.17	0	6.5	2
15	Wy.	EI	-----	38.11	0	7.0	2½
Mean	1917.19		6 46 -----	+38 58 38.42			
Corr			-----	−0.27			

θ Geminorum

			h m s	° ′ ″			
			6 46 51.543	+34 4 13.70			
1912			s	"	"		
Oct. 26	R.	EII	−0.009		+0.40	I	3.9 1½
29	R.	EII	+0.015		+0.37	I	3.9 2
Nov. 4	R.	WII	−0.079		−0.29	I	3.9 2
1913							
Jan. 14	R.	WII	−0.100		−0.09	I	3.9 1
1914							
Jan. 28	Wy.	WI	−0.049		+0.08	I	2.9 3
29	R.	WI	−0.033		−0.01	I	3.9 3½
Feb. 3	Wy.	EI	−0.047		+0.58	I	--- 2½
4	Hd.	EI	−0.026		+0.10	0	--- 2
1915							
Jan. 25	Fn.	EI	−0.026		----	I	3.4 2½
Dec. 2	Hd.	EI	−0.023		----	I	3.4 2
1916							
Feb. 7	Wy.	EI	+0.005		----	I	4.4 3½
Sept. 18	*Hd.*	*EI*	*−0.103*	*+0.52*	*+0.52*	*0*	*--- 3*
19	*Wy.*	*EI*	*−0.017*	*+0.03*	*+0.03*	*0*	*--- 3*
21	*Hd.*	*EI*	*−0.093*	*−0.22*	*−0.21*	*0*	*--- 2½*
24	*Wy.*	*EI*	*−0.094*	*−0.35*	*−0.35*	*0*	*--- 3*
25	*Hd.*	*EI*	*−0.022*	*+0.61*	*+0.60*	*0*	*--- 2½*
Oct. 10	Fn.	WI	−0.039		−0.64	I	3.9 2½
1917							
Jan. 11	Wy.	EI	−0.024		----	I	4.4 2½
28	Hd.	EI	−0.017		----	I	--- 2
Mar. 9	Fn.	WI	−0.009		−0.17	I	3.9 2
19	Fn.	EI	−0.058		+0.37	I	3.9 2
20	Hd.	EI	−0.042		−0.01	I	4.4 2
22	Fn.	EI	−0.026		+0.26	I	3.4 2
29	*Wy.*	*WI*	*−0.017*	*+0.27*	*+0.27*	*I*	*--- 3*
30	*Fn.*	*WI*	*+0.018*	*−0.60*	*−0.60*	*0.*	*--- 2½*

				s	″	″			
1917									
May	*3*	*Hd.*	*EI*	*−0.154*	*−0.86*	*−0.84*	*0*	---	*3½*
	14	*Wy.*	*WI*	*−0.014*	*−0.08*	*−0.07*	*0*	---	*3½*
Aug.	*9*	*Wy.*	*WII*	*−0.041*	*−0.50*	*−0.49*	*0*	---	*3½*
	16	*Wy.*	*WII*	*+0.010*	*+0.57*	*+0.58*	*0*	---	*3½*
	20	*Wy.*	*WII*	*+0.038*	*−0.56*	*−0.56*	*0*	---	*3½*
	24	*Wy.*	*EII*	*−0.015*	*−0.75*	*−0.75*	*0*	---	*3*
Sept.	*10*	*Fn.*	*EII*	*−0.029*	*−0.91*	*−0.90*	*0*	---	*3*
	12	*Hd.*	*EII*	*−0.025*	*−0.56*	*−0.57*	*0*	---	*3*
	16	*Hd.*	*EII*	*−0.073*	*−0.58*	*−0.58*	*0*	---	*3*
1918									
Jan.	29	Wy.	WII	−0.069		----	I	3.9	2½
Feb.	11	Wy.	WII	−0.041		+0.08	I	3.9	3
	28	Wy.	EII	−0.073		−0.16	0	---	4
Mar.	5	Hd.	EII	−0.001		0.00	I	4.4	2
	8	Wy.	EII	−0.034		−0.64	I	3.9	2½
	11	Hd.	WII	−0.048		+0.11	0	---	3
	15	Fn.	WII	−0.024		−0.48	I	3.9	2
	18	Wy.	WII	-----		+0.48	I	3.4	2½
	23	Fn.	WII	−0.066		----	I	3.9	2
Mean		1916.16		−0.036		+0.02			
		1916.04							
Corr				−0.081		−0.26			

24 H. Camelopardalis

				h	m	s	°	′	″			
1912												
Dec.	13	Fn.	EII	6	46	57.31	+77	5	37.33	0	5.1	2
	16	Fn.	EII			57.36			37.15	0	5.2	1½
1913												
Jan.	30	Hd.	WII			57.29			37.65	0	6.0	2
Feb.	4	Hd.	WII			57.29			37.61	I	4.9	3
	6	R.	WII			57.33			37.47	I	4.9	2
Dec.	29	Hd.	WI			57.49			37.85	I	4.4	1
1914												
Jan.	9	R.	EI			57.26			37.37	I	4.4	2
	15	Hd.	EI			57.40			37.78	I	4.9	3
	27	Fn.	WI			57.28			38.44	0	5.0	3½
Mean		1913.48		6	46	57.334	+77	5	37.63			
Corr						−0.081			−0.36			

24 H. Camelopardalis s. p.

				h	m	s	°	′	″			
1913												
June	10	R.	WII	6	46	57.35	+77	5	37.59	I	4.9	3
July	3	R.	EII			57.25			37.14	0	---	4
	4	Hd.	EII			57.42			37.62	0	---	3
	7	Hd.	WII			57.32			36.50	0	---	4
1914												
July	17	Hd.	WI			57.48			36.94	I	4.4	3
	18	Hd.	EI			57.24			36.75	0	5.5	3
	19	Hd.	EI			57.39			36.74	I	4.4	2½
Aug.	13	Hd.	WI			57.28			36.54	I	4.4	2
Mean		1914.03		6	46	57.341	+77	5	36.98			
Corr						−0.081			+0.51			

Groombridge 1237

				h	m	s	°	′	″			
1912												
Jan.	9	R.	EII	6	48	45.044	+44	1	23.35	0	6.0	2
	10	Hd.	EII			45.110			23.45	0	6.5	--
	16	R.	WII			45.104			22.77	0	7.0	2
	19	Fn.	WII			45.018			23.18	0	6.3	1½
1915												
Nov.	29	Wy.	EI			45.109			22.79	0	6.0	2
	30	Hd.	EI			45.094			22.81	0	6.5	3
Dec.	6	Hd.	WI			45.038			22.46	0	6.0	2
	10	Hd.	WI			45.042			22.42	0	6.0	2
Mean		1913.98		6	48	45.070	+44	1	22.90			
Corr						−0.081			−0.28			

15 Lyncis [1]

				h	m	s	°	′	″				
				6	49	29.361	+58	32	29.73				
1912													
Feb.	14	R.	EII			−0.189			−0.14	0	---	1	
	16	Hd.	EII			−0.103			−0.37	I	---	--	
	22	R.	WII			−0.104			−0.33	0	---	5	
	23	Hd.	WII			−0.167			−0.06	I	3.9	2½	
1915													
Feb.	10	Hd.	EI			-----			+0.10	I	3.9	2	
	17	Fn.–Wy.	EI			-----			−0.21	I	4.4	2	
	18	Hd.–An.	EI			-----			−0.19	I	---	3	R.
	19	Fn.–Wy.	EI			-----			−0.26	0	---	2½	R.
	21	An.–Hd.	WI			-----			−0.07	I	---	2½	R.
	22	Wy.–Fn.	WI			-----			+0.36	0	---	3	
Mar.	1	Wy.–Fn.	WI			-----			−0.18	0	---	3½	R.
	2	Wy.–Fn.	WI			-----			+0.08	0	---	4	
Nov.	5	Fn.	EI			−0.172			+0.67	I	4.4	2	
	7	Hd.	EI			−0.180			+0.16	I	3.9	3	
	9	Wy.	WI			−0.104			+0.49	I	4.4	2	
	16	Hd.	WI			−0.149			−0.38	I	4.4	3	
Mean		1914.00				−0.146			+0.03				
		1914.38											
Corr						−0.081			−0.32				

θ Canis Majoris

				h	m	s	°	′	″			
				6	50	0.494	−11	55	30.75			
1912												
Feb.	2	Hd.	WII			+0.033			−1.06	I	3.9	3
	10	R.	EII			+0.006			−0.22	0	---	1
	13	Hd.	EII			+0.022			−0.86	I	3.9	3½
	27	Hd.	WII			−0.036			−0.86	I	4.4	4
1915												
Oct.	22	Hd.	WI			−0.001			−1.03	0	5.5	3½
	23	Wy.	WI			+0.035			−0.57	I	3.9	4
	25	Wy.	WI			+0.021			−1.01	I	4.4	3½
	28	Wy.	EI			+0.003			0.00	0	5.0	4
	29	Hd.	EI			−0.018			−1.65	I	4.4	3½
Mean		1914.17				+0.007			−0.81			
Corr						−0.081			−0.13			

Pulkowa 1855, 1134

				h	m	s	°	′	″			
1912												
Nov.	16	R.	EII	6	51	28.660	+10	4	25.72	0	6.0	2
Dec.	3	R.	WII			28.659			24.83	0	---	1½
	9	Fn.	WII			28.683			25.97	0	6.3	3
	12	R.	EII			28.716			25.16	0	6.0	2
1913												
Nov.	20	Hd.	WI			28.673			25.52	0	6.0	3
	21	Fn.	WI			28.713			25.37	0	6.5	2
Dec.	8	Hd.	EI			28.709			25.50	0	6.0	2½
	9	Fn.	EI			28.673			25.20	0	6.0	2
Mean		1913.42		6	51	28.686	+10	4	25.41			
Corr						−0.081			−0.21			

ι Canis Majoris

				h	m	s	°	′	″			
1912												
Jan.	20	R.	WII	6	52	7.423	−16	56	14.07	I	4.4	2½
	21	Hd.	WII			7.473			13.76	0	5.0	4½
	24	R.	EII			7.434			12.34	0	5.5	3½
	27	R.	EII			7.340			13.05	0	5.5	3½
1915												
Oct.	27	Fn.	WI			7.428			14.04	0	5.5	3
	30	Fn.	EI			7.430			13.16	0	5.0	3
Nov.	3	Wy.	EI			7.434			12.20	I	4.9	3½
	17	Fn.	WI			7.456			14.04	0	5.0	2½
Mean		1913.95		6	52	7.427	−16	56	13.33			
Corr						−0.081			−0.10			

[1] Double; mean observed.

Bradley 1010

				h m s	° ′ ″			
1913								
Jan. 22	Fn.	EII	6	52 54.998	+38 10 35.41	0	6.5	1½
25	Hd.	EII		54.990	35.52	0	6.0	2
30	Hd.	WII		55.047	35.33	0	---	2
Feb. 6	R.	WII		54.986	34.89	0	6.0	4
Dec. 20	R.	WI		55.013	35.33	0	6.0	1½
26	Fn.	WI		55.081	34.83	0	6.5	3
1914								
Jan. 5	Hd.	EI		55.015	35.75	0	6.0	2½
8	Hd.	EI		54.994	35.37	0	6.5	3
Mean	1913.54		6	52 55.016	+38 10 35.30			
Corr				−0.081	−0.27			

Weisse$_1$ VI 1575

				h m s	° ′ ″			
1912								
Jan. 10	Hd.	EII	6	54 13.005	+3 43 29.61	0	6.5	3
16	R.	WII		12.974	29.32	0	5.5	2
19	Fn.	WII		13.043	30.24	0	6.6	2
Feb. 8	Fn.	EII		13.027	29.11	0	6.7	2½
1915								
Nov. 7	Hd.	EI		12.989	29.67	0	6.5	3
9	Wy.	WI		13.010	29.36	0	6.5	2
16	Hd.	WI		13.067	29.27	0	6.5	3
22	Hd.	EI		12.995	29.12	0	6.5	2
Mean	1913.96		6	54 13.014	+3 43 29.46			
Corr				−0.081	−0.19			

ϵ Canis Majoris [1]

				h m s	° ′ ″			
				6 55 5.314	−28 50 56.61			
				s	″	″		
1913								
Jan. 28	R.	EII		+0.054	−0.23	I	2.9	2½
Feb. 4	Hd.	WII		+0.025	−1.20	I	2.4	4
7	Fn.	WII		+0.092	−0.98	I	---	4
18	Hd.	EII		−0.031	−0.26	II	2.6	2½
1914								
Jan. 28	Wy.	WI		+0.016	−0.38	I	2.7	4
29	R.	WI		+0.019	−0.61	I	---	5
Feb. 3	Wy.	EI		−0.033	−0.11	0	---	3½
4	Hd.	EI		+0.061	+0.41	I	---	3½
1916								
Sept. 7	*Wy*	*WI*		*+0.008*	*−1.11*	*−1.12*	*0*	--- *4*
18	*Hd.*	*EI*		*−0.006*	*+0.22*	*+0.35*	*0*	--- *3½*
19	*Wy.*	*EI*		*+0.028*	*+0.95*	*+1.06*	*0*	--- *4*
21	*Hd.*	*EI*		*+0.037*	*−0.89*	*−0.70*	*0*	--- *3*
24	*Wy.*	*EI*		*+0.064*	*+0.39*	*+0.36*	*0*	--- *4*
26	*Hd.*	*EI*		*+0.053*	*−0.24*	*−0.38*	*0*	--- *3½*
1917								
Mar. 9	Fn.	WI		+0.082		−0.89	I	2.9 3½
19	Fn.	EI		−0.014		+0.92	I	3.4 3
22	Fn.	EI		+0.018		+0.67	I	2.9 3
29	*Wy*	*WI*		*+0.076*	*−1.46*	*−1.39*	*I*	--- *4*
30	*Fn.*	*WI*		*+0.067*	----	----	*I*	--- *3½*
May 1	*Fn.*	*EI*		*+0.017*	*−0.70*	*−0.50*	*0*	--- *3½*
14	*Wy*	*WI*		*+0.051*	----	----	*0*	--- *3½*
July 16	*Wy*	*EII*		-----	*+0.81*	*+1.07*	*0*	--- *4*
Aug. 20	*Wy*	*WII*		*+0.162*	*−0.33*	*−0.26*	*0*	--- *4*
24	*Wy.*	*EII*		*+0.048*	*−0.08*	*+0.01*	*0*	--- *3½*
Sept. 6	*Hd.*	*EII*		*−0.001*	*+1.69*	*+1.90*	*0*	--- *3½*
10	*Fn.*	*EII*		*−0.050*	*−1.02*	*−0.86*	*0*	--- --
12	*Hd.*	*EII*		*+0.068*	*0.00*	*−0.10*	*0*	--- *3*
16	*Hd.*	*EII*		*−0.008*	*−0.40*	*−0.30*	*0*	--- *3½*
1918								
Feb. 11	Wy	WII		+0.077		−1.30	I	3.4 3½
28	Wy.	EII		+0.025		−0.14	0	--- 5
Mar. 5	Hd.	EII		+0.041		+0.13	I	3.9 3½
7	Fn.	EII		+0.062		−1.88	I	2.9 3
8	Wy.	EII		+0.057		−0.78	I	3.4 3½
11	Hd.	WII		+0.059		−1.20	I	--- 3½
15	Fn.	WII		+0.101		−1.21	I	2.9 3
18	Wy.	WII		+0.036		−0.28	I	2.9 3
Aug. 14	*Fn.*	*WII*		*+0.029*	*−0.43*	*−0.08*	*0*	--- *4*
Mean	1916.10			+0.039		−0.49		
Corr				−0.081		+0.01		

Cape 1880, 3334

				h m s	° ′ ″			
1912								
Feb. 2	Hd.	WII	6	55 17.043	−30 52 29.86	0	6.5	--
9	Hd.	EII		17.040	29.61	0	---	5
13	Hd.	EII		17.075	29.86	0	6.5	--
27	Hd.	WII		16.884	29.48	0	6.5	3½
1915								
Nov. 27	Wy.	EI		17.136	28.12	0	7.0	3½
29	Wy.	EI		17.109	28.80	0	7.5	3½
Dec. 6	Hd.	WI		17.126	30.85	0	7.0	3
8	Wy.	WI		17.081	29.27	0	7.5	3½
Mean	1914.02		6	55 17.062	−30 52 29.48			
Corr				−0.081	+0.05			

Weisse$_1$ VI 1650

				h m s	° ′ ″			
1912								
Dec. 13	Fn.	EII	6	56 4.281	−8 16 52.23	0	6.4	3
16	Fn.	EII		4.273	51.14	0	6.5	2
1913								
Jan. 9	R.	WII		4.283	51.48	0	6.0	2
14	R.	WII		4.352	50.92	0	---	--
Nov. 4	Fn.	EI		4.373	50.43	0	6.0	3½
5	R.	EI		4.356	51.32	0	6.0	4
10	Hd.	WI		4.304	51.13	0	6.0	3
17	Hd.	WI		4.280	51.35	0	6.0	3½
Mean	1913.42		6	56 4.313	−8 16 51.25			
Corr				−0.081	−0.15			

ω Geminorum

				h m s	° ′ ″			
1912								
Feb. 14	R.	EII	6	56 55.839	+24 20 40.09	0	6.0	1
16	Hd.	EII		55.821	40.04	0	---	1
22	R.	WII		55.866	40.08	0	---	3
23	Hd.	WII		55.843	40.43	0	5.7	--
1915								
Oct. 23	Wy.	WI		55.804	40.73	0	5.5	3
25	Wy.	WI		55.828	40.39	I	4.9	3
28	Wy.	EI		55.819	39.15	0	6.5	3½
29	Hd.	EI		55.794	39.92	0	6.0	3
Mean	1913.98		6	56 55.827	+24 20 40.10			
Corr				−0.081	−0.24			

Lacaille 2570

				h m s	° ′ ″			
1912								
Nov. 16	R.	EII	6	57 23.956	−25 5 15.32	0	7.0	2
Dec. 3	R.	WII		23.979	-----	0	---	3
9	Fn.	WII		24.032	14.51	0	6.2	4
12	R.	EII		23.979	14.97	0	6.5	2½
28	R.	WII		23.916	15.37	0	6.0	3½
1913								
Nov. 20	Hd.	WI		23.923	16.54	0	6.5	4
21	Fn.	WI		23.976	15.85	0	6.5	2½
Dec. 8	Hd.	EI		23.999	16.28	0	7.5	4
9	Fn.	EI		24.021	15.96	0	6.5	3
Mean	1913.37		6	57 23.976	−25 5 15.60			
	1913.43							
Corr				−0.081	−0.03			

Groombridge 1256

				h m s	° ′ ″			
1912								
Feb. 17	R.	EII	6	58 4.698	+59 56 9.92	0	7.2	2
28	R.	WII		4.747	10.12	0	6.0	3
Mar. 1	Hd.	WII		4.747	9.71	0	6.8	--
9	R.	EII		4.692	9.96	0	7.0	2
1915								
Oct. 27	Fn.	WI		4.788	9.87	0	6.5	2
30	Fn.	EI		4.806	9.77	0	6.5	2½
Nov. 1	Hd.	EI		4.767	9.84	0	6.5	3
16	Hd.	WI		4.744	9.38	0	6.5	3
Mean	1914.00		6	58 4.749	+59 56 9.82			
Corr				−0.081	−0.32			

[1] Double; n. pr. component observed.

22 Canis Majoris

				h m	s	° ′	″				
1912											
Jan. 20	R.	WII		6 58	8.088	−27 48	20.84	I	2.9	1½	
21	Hd.	WII			8.094		20.03	I	2.9	3½	
24	R.	EII			8.085		18.23	I	3.9	4½	
27	R.	EII			7.988		19.66	I	4.4	3	
1915											
Nov. 5	Fn.	EI			8.144		19.52	I	3.9	3½	
7	Hd.	EI			8.033		19.43	I	3.9	3½	
9	Wy.	WI			8.111		19.39	I	3.9	3	
17	Fn.	WI			8.072		20.82	I	4.4	3	
Mean	1913.96			6 58	8.077	−27 48	19.74				
Corr					−0.081		0.00				

51 H. Cephei

				h m	s	° ′	″				
				6 58	38.87	+87 11	31.35				
1911					s	″	″				
Oct. 4	*Hd.*	*EII*			*+1.30*	*+0.02*	*−0.02*	*0*	---	*3*	
5	*Hd.*	*EII*			----	*+0.03*	*0.00*	*0*	---	--	*R.*
5	*Hd.*	*EII*			*−0.22*	*−0.44*	*−0.47*	*0*	---	--	
12	Fn.	WII			+0.25		+0.81	0	---	--	
13	Fn.	WII			−0.64		----	0	---	--	
18	Hd.	WII			+0.76		+0.24	0	---	3½	
24	R.	WII			+0.40		+0.19	I	3.9	2½	
25	R.	WII			+0.84		−0.97	I	4.4	2½	
26	R.	WII			----		−0.07	I	---	1	R.
26	R.	WII			+1.08		+0.30	I	4.4	1	
29	R.	EII			----		−0.17	I	---	2½	R.
29	R.	EII			----		[+1.42][1]	I	4.4	2½	
1912											
Mar. 27	Fn.	WII			+0.50		+0.89	0	---	3½	
30	*Fn.*	*WII*			----	*−0.51*	*−0.60*	*0*	---	*3*	*R.*
30	*Fn.*	*WII*			*−1.25*	*−0.05*	*−0.14*	*0*	---	*2*	
31	*R.*	*WII*			----	*−0.75*	*−0.91*	*0*	---	--	*R.*
31	*R.*	*WII*			*+0.78*	*+0.49*	*+0.33*	*0*	---	*4*	
Apr. 3	*Fn.*	*WII*			*+0.93*	*+0.12*	*+0.09*	*0*	---	*3½*	
8	*Hd.*	*WII*			*+0.88*	*+0.10*	*+0.05*	*0*	---	*3½*	
9	*R.*	*WII*			*−1.04*	*+0.78*	*+0.63*	*0*	---	*5*	
10	*Fn.*	*WII*			*−0.40*	*−0.49*	*−0.53*	*0*	---	--	
11	*Hd.*	*EII*			*+0.64*	*+0.12*	*−0.03*	*0*	---	*2*	
Sept. 30	*Hd.*	*EII*			----	*+0.57*	*+0.53*	*0*	---	--	*R.*
30	*Hd.*	*EII*			*+0.65*	*−0.10*	*−0.14*	*0*	---	*2*	
Oct. 1	*Hd.*	*EII*			----	*−0.24*	*−0.21*	*0*	---	--	*R.*
1	*Hd.*	*EII*			*+0.34*	*+0.54*	*+0.57*	*0*	---	*2*	
2	*Hd.*	*EII*			----	*−0.12*	*−0.12*	*0*	---	--	*R.*
2	*Hd.*	*EII*			*−0.14*	*+0.52*	*+0.52*	*0*	---	*3½*	
5	*R.*	*EII*			*+1.20*	*+0.31*	*+0.28*	*0*	---	*4*	
6	*Hd.*	*WII*			*+0.20*	*+0.06*	*+0.10*	*0*	---	*3*	
7	*R.*	*WII*			----	*−0.65*	*−0.71*	*0*	---	--	*R.*
7	*R.*	*WII*			*+1.23*	*−0.05*	*−0.11*	*0*	---	*2*	
14	Hd.	WII			----		+0.48	0	---	--	R.
14	Hd.	WII			+0.43		−0.50	0	---	3	
16	Hd.	WII			----		+0.54	0	---	--	R.
16	Hd.	WII			+0.46		−0.06	0	---	3	
17	Hd.	WII			----		−0.35	0	---	--	R.
17	Hd.	WII			+0.51		+0.25	0	---	2	
1913											
Mar. 28	R.	EII			+1.09		+0.13	0	---	2	
29	R.	EII			+0.93		−0.28	0	---	2	
31	*Hd.*	*EII*			*+0.93*	*−0.68*	*−0.77*	*0*	---	*3½*	
Apr. 1	*Fn.*	*EII*			*+0.06*	*−1.46*	*−1.43*	*0*	---	*3*	
6	*Hd.*	*WII*			*−0.23*	*+0.55*	*+0.50*	*0*	---	*2*	
7	*R.*	*WII*			*+0.76*	*−0.18*	*−0.34*	*0*	---	*2*	
8	*Fn.*	*WII*			*+0.60*	*+0.21*	*+0.24*	*0*	---	*2½*	
1914											
Mar. 18	Hd.	EI			+1.73		−0.44	0	5.5	3	
20	Wy.	EI			−0.21		−0.89	0	5.0	3½	
22	Wy.	EI			+0.01		0.00	0	6.5	3	
24	Wy.	EI			+0.76		+0.16	0	6.0	2½	
26	Fn.	EI			+0.81		+0.10	0	5.5	3	
1914					s	″	″				
Apr. 3	*Wy.*	*WI*			*+0.89*	*+0.11*	*+0.07*	*0*	---	*3*	
5	*Wy.*	*WI*			*+1.75*	*−0.35*	*−0.39*	*0*	---	*3*	
6	*Hd.*	*WI*			*+0.36*	*+0.09*	*0.00*	*0*	---	*3*	
Sept. 20	*Hd.*	*EI*			*+1.24*	*+0.44*	*+0.43*	*0*	---	*2*	
21	*Wy.*	*EI*			*+0.70*	*+0.27*	*+0.26*	*0*	---	*3*	
22	*An.*	*EI*			*[+1.18]*	*−0.07*	*−0.10*	*0*	---	*3½*	
27	*Wy.*	*WI*			*+1.08*	*+0.22*	*+0.10*	*0*	---	*3½*	
29	*Hd.*	*WI*			*+0.92*	*−0.60*	*−0.68*	*0*	---	*3½*	
Oct. 2	*An.*	*WI*			*[+0.47]*	*+0.49*	*+0.46*	*0*	---	*3*	
10	Hd.	WI			----		+0.10	0	---	3½	R.
10	Hd.	WI			+0.18		−0.36	0	---	3½	
11	Wy.	WI			+0.31		−0.10	0	---	3½	
18	Wy.	EI			+1.39		−0.05	0	5.5	3	
19	An.	EI			----		0.00	0	---	3½	R.
19	An.	EI			----		+1.28	0	---	3	
28	Wy.	EI			----		+0.79	0	---	3½	R.
28	Wy.	EI			+0.39		−0.09	0	5.5	3	
1915											
Feb. 10	Hd.	EI			----		+0.31	I	4.9	2	
17	Fn.–Wy.	EI			----		+0.15	0	5.0	2½	
18	Hd.–An.	EI			----		+0.26	0	---	3	R.
19	Fn.–Wy.	EI			----		−0.17	0	---	3	R.
20	An.–Hd.	WI			----		+0.45	I	4.9	2½	
21	An.–Hd.	WI			----		+0.86	0	---	3½	R.
22	Wy.–Fn.	WI			----		+0.10	0	---	3	
Mar. 1	Wy.–Fn.	WI			----		+1.33	0	---	3½	R.
2	Wy.–Fn.	WI			----		−0.30	0	---	4	R.
29	An.	EI			----		+0.67	0	6.0	3½	
30	*Fn.*	*EI*			*+1.42*	*+0.49*	*+0.49*	*0*	---	*2*	
31	*Wy.*	*EI*			*−0.31*	*+0.56*	*+0.51*	*0*	---	*3*	
Apr. 1	*An.*	*EI*			*[+0.34]*	*+0.51*	*+0.48*	*0*	---	*3*	
4	*Wy.*	*EI*			*+0.71*	*+0.25*	*+0.39*	*0*	---	*3*	
6	*Hd.*	*EI*			*+1.74*	*+1.37*	*+1.48*	*0*	---	*2*	
7	*Wy.*	*EI*			*+1.48*	*+0.23*	*+0.11*	*0*	---	*3½*	
Sept. 22	*Wy.*	*EI*			*+0.29*	*+0.30*	*+0.34*	*0*	---	*3*	
28	*Hd.*	*EI*			*+0.65*	*+0.52*	*+0.46*	*0*	---	*3*	
29	*Fn.*	*EI*			*−0.67*	----	----	*0*	---	*4*	
Oct. 3	*Wy.*	*WI*			----	*+0.82*	*+0.78*	*0*	---	*3*	*R.*
3	*Wy.*	*WI*			*+0.22*	*−0.72*	*−0.76*	*0*	---	*3*	
8	*Wy.*	*WI*			*+1.22*	*−0.19*	*−0.24*	*0*	---	*3½*	
9	*Hd.*	*WI*			*+1.18*	*−0.17*	*−0.24*	*0*	---	*3*	
11	Hd.	WI			+0.61		−0.14	I	---	3	
12	Fn.	WI			−0.65		+0.15	0	6.0	3	
21	Fn.	WI			+0.39		−0.61	0	5.5	3	
22	Hd.	WI			+1.12		+0.18	0	6.0	3	
1916											
Sept. 19	*Wy.*	*EI*			*+0.70*	*−0.20*	*−0.24*	*0*	---	*3½*	
21	*Hd.*	*EI*			*−0.15*	*+0.40*	*+0.29*	*0*	---	*2*	
24	*Wy.*	*EI*			*+1.37*	----	----	*0*	---	*4*	
25	*Hd.*	*EI*			*+0.52*	*+0.08*	*+0.08*	*0*	---	*3*	
Oct. 1	*Wy.*	*WI*			*+1.09*	*+0.57*	*+0.58*	*0*	---	*3½*	
10	Fn.	WI			−0.45		−0.04	0	5.0	3	
12	Fn.	WI			−0.27		−0.33	0	5.5	3½	
16	Fn.	WI			−0.60		+0.15	0	---	3½	
1917											
Mar. 22	Fn.	EI			+0.97		+0.54	0	5.5	2½	
29	*Wy.*	*WI*			*+0.15*	*−0.69*	*−0.72*	*0*	---	*3½*	
30	*Fn.*	*WI*			*+0.42*	*−0.29*	*−0.14*	*0*	---	*3½*	
Apr. 3	*Hd.*	*WI*			*+0.54*	*+0.11*	*+0.11*	*0*	---	*2*	
Sept. 10	*Fn.*	*EII*			*+0.52*	*+0.01*	*−0.07*	*0*	---	*3½*	
12	*Hd.*	*EII*			*+0.05*	*+0.03*	*+0.02*	*0*	---	*3*	
16	*Hd.*	*EII*			*+0.23*	*−0.28*	*−0.33*	*0*	---	*3*	
17	*Wy.*	*EII*			*+0.25*	*−0.06*	*−0.09*	*0*	---	*3½*	
30	*Hd.*	*WII*			*+1.04*	*−0.26*	*−0.23*	*0*	---	*3½*	
Oct. 1	*Fn.*	*WII*			*+0.25*	*+0.73*	*+0.66*	*0*	---	*3*	
1918											
Mar. 26	Wy.	WII			+1.98		−0.43	0	5.0	3	
28	Fn.	WII			+0.64		+0.68	0	5.5	2½	
Apr. 2	*Fn.*	*EII*			*+1.28*	*−0.18*	*−0.17*	*0*	---	*3*	
5	*Fn.*	*EII*			*+0.59*	*−0.01*	*−0.02*	*0*	---	*2½*	
15	*Fn.*	*EII*			*+0.17*	*−0.30*	*−0.30*	*0*	---	*2½*	
Mean	1914.37				+0.51		+0.05				
	1914.58										
Corr					−0.08		−0.40				

[1] Bisection too far from the meridian.

51 H. Cephei s. p.

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				s	″	″				
1911										
Oct.	5	Hd.	EII	----		−0.03	0	---	3	R.
	5	Hd.	EII	+0.98		+0.19	0	---	3	
	6	Hd.	EII	----		−0.64	0	---	--	R.
	6	Hd.	EII	−0.03		−0.24	0	---	--	
	9	Fn.	WII	+0.15		−0.18	0	---	--	
	11	*Fn.*	*WII*	----	*−1.31*	*−1.31*	*0*	---	--	*R.*
	11	*Fn.*	*WII*	*+0.48*	*−0.81*	*−0.81*	*0*	---	--	
	12	*Fn.*	*WII*	----	*[−1.03]*[1]	*[−1.00]*[1]	*0*	---	--	
	12	*Fn.*	*WII*	*+0.72*	*−0.38*	*−0.35*	*0*	---	--	
	13	*Fn.*	*WII*	----	*−2.19*	*−2.19*	*0*	---	*1½*	*R.*
	13	*Fn.*	*WII*	*+0.23*	*−0.34*	*−0.34*	*0*	---	*1½*	
	16	*Hd.*	*WII*	----	*−1.09*	*−1.12*	*0*	---	*2*	*R.*
	16	*Hd.*	*WII*	*+1.04*	*−0.20*	*−0.23*	*0*	---	*2*	
	23	*R.*	*WII*	*+0.31*	*−0.47*	*−0.42*	*0*	---	--	
	25	*R.*	*WII*	----	*−0.43*	*−0.37*	*0*	---	--	
	26	*R.*	*WII*	*+1.26*	*−1.11*	*−1.20*	*0*	---	--	
Nov.	*1*	*R.*	*EII*	*−0.28*	*+0.09*	*+0.09*	*0*	---	*4*	
1912										
Apr.	*3*	*Fn.*	*WII*	*+0.59*	----	----	*0*	---	--	
	7	*Fn.*	*WII*	*−0.05*	*[+1.97]*[2]	*[+2.00]*[2]	*0*	---	*3½*	
	8	*Hd.*	*WII*	*+0.46*	*−0.14*	*−0.05*	*0*	---	*3*	
	10	*Fn.*	*WII*	*+0.01*	*−0.67*	*−0.73*	*0*	---	*2*	
	11	*Hd.*	*EII*	*+0.43*	*−1.11*	*−1.11*	*0*	---	*3*	
June	10	Hd.–Fn.	EII	----		−1.03	0	---	--	R.
	10	Hd.–Fn.	EII	----		−1.23	0	---	--	
	11	Hd.–Fn.	EII	----		−0.43	0	---	--	R.
	11	Hd.–Fn.	EII	----		−1.24	0	---	--	
	20	Fn.–Hd.	EII	----		+0.21	0	---	--	R.
	20	Fn.–Hd.	EII	----		−1.05	0	---	--	
July	2	Fn.–Hd.	EII	----		−0.39	0	---	--	R.
	2	Fn.–Hd.	EII	----		−0.43	0	---	--	
	3	Hd.–Fn.	WII	----		−0.39	0	---	--	R.
	3	Hd.–Fn.	WII	----		−1.20	0	---	--	
	5	Hd.–Fn.	WII	----		−0.81	0	---	--	R.
	5	Hd.–Fn.	WII	----		−0.71	0	---	--	
	6	Fn.–Hd.	WII	----		+0.21	0	---	--	R.
	6	Fn.–Hd.	WII	----		−1.08	0	---	--	
	8	Fn.–Hd.	WII	----		−0.43	0	---	--	R.
	8	Fn.–Hd.	WII	----		−0.95	0	---	--	
Sept.	30	Hd.	EII	----		−0.45	0	---	--	R.
	30	Hd.	EII	+0.56		−0.06	0	---	2	
Oct.	1	Hd.	EII	----		−0.90	0	---	--	R.
	1	Hd.	EII	+0.47		−1.96	0	---	--	
	2	Hd.	EII	----		−1.01	0	---	2	R.
	2	Hd.	EII	+0.28		−0.59	I	4.9	3	
	8	R.	WII	+0.60		−1.02	0	---	--	
	9	R.	WII	----		−0.65	0	---	--	R.
	9	R.	WII	+0.93		−0.97	0	5.5	3½	
	10	*Hd.*	*WII*	----	*−0.84*	*−0.79*	*0*	---	--	*R.*
	10	*Hd.*	*WII*	*+0.52*	*−0.68*	*−0.63*	*0*	---	--	
	15	*Hd.*	*WII*	*+0.22*	*−1.34*	*−1.34*	*0*	---	*2*	
	16	*Hd.*	*WII*	----	*+0.05*	*+0.05*	*0*	---	*2*	*R.*
	16	*Hd.*	*WII*	*−0.09*	*−0.70*	*−0.70*	*0*	---	*1*	
1913										
Mar.	*27*	*Hd.*	*EII*	*+0.79*	*+0.05*	*+0.17*	*0*	---	*2*	
	28	*Hd.*	*EII*	*+0.77*	*−0.60*	*−0.72*	*0*	---	*2½*	
	31	*Hd.*	*EII*	*+0.75*	*−0.61*	*−0.75*	*0*	---	*3½*	
Apr.	*7*	*Hd.*	*WII*	*+0.11*	*−0.42*	*−0.45*	*0*	---	*3*	
Aug.	7	R.–Fn.	WII	----		−0.39	0	---	2	R.
	7	R.–Fn.	WII	----		−0.49	I	4.9	1½	
	11	R.–Fn.	WII	----		−0.70	I	---	1½	R.
	11	R.–Fn.	WII	----		−1.17	I	4.4	2	
	14	R.–Fn.	WII	----		−0.45	I	---	2	R.
	14	R.–Fn.	WII	----		−1.23	I	4.1	2	
	15	Fn.–R.	WII	----		−0.85	0	---	2	R.
	15	Fn.–R.	WII	----		−0.60	0	5.5	2	
	16	Fn.–R.	WII	----		−0.73	0	---	2½	R.
	16	Fn.–R.	WII	----		0.00	0	5.3	2½	
	20	R.–Fn.	EII	----		−0.77	0	---	2	R.
	20	R.–Fn.	EII	----		+0.28	I	4.4	1½	
	21	R.–Fn.	EII	----		−0.79	0	---	2	R.
	21	R.–Fn.	EII	----		+0.15	I	4.9	1½	
	23	R.–Fn.	EII	----		−1.11	0	---	2	R.
1913										
Aug.	23	R.–Fn.	EII	----		−0.10	0	---	2	
	25	R.–Fn.	EII	----		+0.24	I	4.4	2	
	26	Fn.–R.	EII	----		−0.60	0	---	3	R.
	26	Fn.–R.	EII	----		−0.50	0	5.5	3	
	30	Fn.–R.	EII	----		−1.09	0	---	2½	R.
	30	Fn.–R.	EII	----		−0.51	0	5.5	2½	
Sept.	3	Fn.–R.	EII	----		−0.75	0	---	3	R.
	3	Fn.–R.	EII	----		−1.51	0	5.5	3	
	4	Fn.–R.	EII	----		−0.10	0	---	3	R.
	4	Fn.–R.	EII	----		−0.47	0	5.5	2½	
1914										
Mar.	*23*	*Hd.*	*EI*	*+0.07*	*−0.79*	*−0.79*	*0*	---	*2½*	
	26	*Hd.*	*EI*	*+0.20*	*−0.85*	*−0.78*	*0*	---	--	
Apr.	*3*	*Fn.*	*WI*	*+0.43*	----	----	*0*	---	*3½*	
	5	*Wy.*	*WI*	*+0.59*	*−0.49*	*−0.74*	*0*	---	*3*	
	6	*Hd.*	*WI*	*+1.31*	----	----	*0*	---	*3*	
Sept.	19	Wy.	EI	----		−1.47	0	---	3	R.
	19	Wy.	EI	+0.42		−0.84	0	---	2½	
	20	Hd.	EI	−0.19		−0.17	0	5.5	2½	
	22	An.	EI	[+1.14]		−1.09	I	5.4	3	
	28	Wy.	WI	+0.52		−0.88	I	4.9	2½	
	30	Hd.	WI	+0.78		−0.11	0	---	3	
Oct.	1	Wy.	WI	−0.22		−1.02	I	4.9	3	
	2	An.	WI	[−0.41]		−0.79	0	6.0	3	
	5	Hd.	WI	----		−0.72	0	---	3	R.
	5	Hd.	WI	+0.77		−0.43	0	5.5	3	
	9	An.	WI	[−0.16]		−1.09	0	---	3	
	10	Wy.	WI	+0.95		−0.95	0	---	3	
	12	*An.*	*WI*	*[−0.56]*	*−1.79*	*−1.71*	*0*	---	*3*	
	17	*Wy.*	*EI*	----	*−0.90*	*−0.75*	*0*	---	*3½*	*R.*
	17	*Wy.*	*EI*	*+0.90*	*−0.79*	*−0.66*	*0*	---	*3*	
	19	*An.*	*EI*	*[+0.08]*	*−1.56*	*−1.61*	*0*	---	*3½*	
	22	*An.*	*EI*	*[+1.50]*	*−0.93*	*−0.98*	*0*	---	*3*	
	28	*Wy.*	*EI*	*+0.85*	*−0.34*	*−0.23*	*0*	---	*3*	
1915										
Mar.	*30*	*Fn.*	*EI*	*−0.15*	*−0.26*	*−0.32*	*0*	---	*3*	
	31	*Wy.*	*EI*	*+0.88*	*−1.01*	*−1.01*	*0*	---	*3*	
Apr.	*7*	*Wy.*	*EI*	*+0.68*	*−0.77*	*−0.77*	*0*	---	*3½*	
	8	*An.*	*EI*	*[+0.81]*	*−1.17*	*−0.95*	*0*	---	*3*	
Sept.	23	Hd.	EI	----		−0.66	0	---	3	R.
	23	Hd.	EI	+0.20		−0.67	I	4.9	3	
	24	Wy.	EI	----		−1.17	0	---	3	R.
	24	Wy.	EI	−0.04		−0.73	0	5.5	3	
	27	Hd.	EI	+0.94		−0.28	I	4.9	3	
	28	Fn.	EI	−0.33		−0.79	0	5.5	2½	
Oct.	3	Wy.	WI	----		−0.80	0	---	3	R.
	3	Wy.	WI	+0.25		−0.18	0	5.0	2½	
	4	Wy.	WI	----		−1.21	0	---	3½	R.
	4	Wy.	WI	+0.36		−0.47	0	6.0	3½	
	6	Fn.	WI	----		−1.17	0	---	2½	R.
	6	Fn.	WI	+0.52		+0.52	0	---	2½	
	9	Fn.	WI	−0.34		−0.72	0	6.0	3½	
	11	Fn.	WI	----		+0.02	0	---	2½	R.
	11	Fn.	WI	+0.50		−0.12	0	5.5	2½	
	12	Wy.	WI	+0.71		−1.08	0	5.5	3	
	13	*Hd.*	*WI*	*+1.15*	*−0.94*	*−0.89*	*0*	---	*3*	
	21	*Hd.*	*WI*	*+0.20*	*−1.19*	*−1.26*	*0*	---	*3*	
	23	*Fn.*	*WI*	*+0.29*	*−0.89*	*−0.84*	*0*	---	*2½*	
1916										
Sept.	19	Hd.	EI	+0.13		−0.50	0	6.0	2	
	20	Wy.	EI	+0.67		−0.40	0	5.5	2½	
	22	Hd.	EI	+0.14		−0.87	0	6.0	3	
	25	Wy.	EI	+0.62		−0.60	0	6.5	2½	
	26	Hd.	EI	−0.10		+0.04	0	6.0	2	
	28	Wy.	WI	+0.08		+0.19	0	6.5	3½	
Oct.	2	Wy.	WI	+0.65		+0.62	0	5.0	3½	
	5	Hd.	WI	+0.16		−0.37	0	5.5	2½	
	10	Fn.	WI	−0.63		+0.67	0	---	2½	
	12	*Hd.*	*WI*	*+1.07*	*−0.57*	*−0.35*	*0*	---	*3*	
	17	*Fn.*	*WI*	*+0.07*	*−0.21*	*−0.18*	*0*	---	*3½*	
1917										
Mar.	*22*	*Hd.*	*EI*	*+0.67*	*−0.61*	*−0.49*	*0*	---	*3*	
	25	*Wy.*	*WI*	*−0.18*	*−0.84*	*−0.82*	*0*	---	*3½*	
Apr.	*3*	*Hd.*	*WI*	*+0.25*	*−0.79*	*−1.17*	*0*	---	*2*	
Sept.	11	Fn.	EII	−0.20		+0.22	0	5.5	2	
	13	Hd.	EII	+1.10		−0.68	0	6.0	2	
	17	Hd.	EII	+0.60		−0.55	0	5.5	3	

[1] Bisection too far from the meridian.

[2] Clamp failed to hold.

				s	"	"			
1917									
Sept.	18	Wy.	EII	+0.11		−0.79	0	5.0	2½
	20	Hd.	WII	−0.31		−0.13	0	5.5	3
Oct.	1	Hd.	WII	+0.81		−0.99	0	---	3½
	2	Fn.	WII	−0.11		−0.51	0	5.5	3
	4	Hd.	WII	+0.71		−0.96	0	5.5	3
	11	Hd.	EII	+0.70		−0.34	0	5.5	2
	15	*Fn.*	*EII*	*−0.36*	*−0.10*	*−0.02*	*0*	---	*3½*
1918									
Mar.	*25*	*Wy.*	*WII*	*+0.90*	*+0.19*	*+0.17*	*0*	---	*4*
Apr.	*4*	*Fn.*	*EII*	*+0.62*	*−0.67*	*−0.61*	*0*	---	*2½*
	21	*Fn.*	*EII*	----	*−0.49*	*−0.46*	*0*	---	*3*
Mean		1915.58		+0.35		−0.54			
		1914.80							
Corr				−0.08		+0.43			

ζ Geminorum

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				s	"	"			
1912									
Feb.	4	Fn.	WII	+0.033		----	I	3.4	2½
Mar.	7	Fn.	WII	−0.009		----	0	---	--
	10	Fn.	EII	+0.034		−0.18	I	3.5	2½
	13	Fn.	EII	−0.006		+0.11	0	---	2
	16	Fn.	EII	−0.012		+0.08	I	4.1	1½
	17	R.	EII	+0.014		+0.41	I	3.4	1
	19	Hd.	EII	+0.010		+0.42	I	---	3
	22	Hd.	EII	+0.004		−0.35	I	3.4	2
	25	Fn.	WII	+0.020		−0.49	I	3.4	2
	26	Hd.	WII	+0.028		+0.44	I	2.9	2
Sept.	*8*	*Hd.*	*EII*	*−0.011*	*+0.18*	*+0.18*	*0*	---	*3*
Dec.	21	R.	EII	−0.026		+0.54	I	3.9	2½
1913									
Feb.	10	Fn.	WII	+0.008		+0.06	0	---	3
	12	Fn.	WII	−0.013		−0.02	I	3.9	1½
	14	Fn.	WII	+0.007		−0.05	I	3.9	2½
	15	Hd.	WII	−0.003		+0.14	I	3.4	2
	17	Fn.	EII	−0.001		+0.30	0	---	3
	19	Fn.	EII	+0.008		−0.08	I	3.8	2½
	21	Fn.	EII	−0.019		−0.32	0	---	2½
	25	Hd.	EII	−0.003		+0.40	I	2.9	2
Nov.	24	Hd.	WI	+0.011		+0.43	I	2.9	3
Dec.	20	R.	WI	+0.008		----	I	3.4	2
	29	Hd.	WI	+0.022		+0.09	I	3.4	2
1914									
Jan.	31	Wy.	WI	+0.017		+0.40	I	3.4	2½
Feb.	2	Fn.	WI	0.000		+0.48	0	---	2
	7	Hd.	EI	−0.010		----	I	3.4	2
	9	Fn.	EI	+0.001		−0.20	I	3.9	3
	12	Fn.	EI	+0.042		+0.24	0	---	1½
	15	Fn.	WI	+0.002		−0.42	0	---	2
	16	Fn.	WI	+0.051		+0.24	I	3.9	2
Mar.	7	Hd.	EI	+0.014		----	I	3.9	2
	9	Fn.	WI	+0.013		+0.90	0	---	2
	10	Wy.	WI	+0.013		+0.70	I	4.4	2
	12	Fn.	WI	−0.001		+1.01	I	3.4	2
	13	Wy.	WI	−0.002		+0.15	I	3.4	2
	18	Hd.	EI	+0.012		----	I	3.4	2½
	24	Wy.	EI	+0.022		+0.01	I	3.4	2
	26	Fn.	EI	−0.011		−0.09	I	3.9	2½
Aug.	*21*	*An.*	*WI*	*+0.011*	*+0.55*	*+0.56*	*0*	---	*3*
Sept.	*1*	*Wy.*	*WI*	*+0.064*	*−0.17*	*−0.18*	*0*	---	*3*
	14	*An.*	*EI*	*−0.018*	*−0.68*	*−0.68*	*0*	---	*3*
1915									
Aug.	*17*	*Wy.*	*WI*	-----	*+0.68*	*+0.75*	*0*	---	*3*
	19	*An.*	*WI*	-----	*+0.96*	*+0.97*	*0*	---	*3*
Sept.	*2*	*Hd.*	*WI*	*−0.026*	*+0.22*	*+0.24*	*0*	---	*3*
	8	*Wy.*	*WI*	-----	*+0.10*	*+0.10*	*0*	---	*3½*
	9	*Hd.*	*WI*	*−0.012*	----	----	*0*	---	*2½*
	13	*Wy.*	*EI*	*+0.040*	----	----	*0*	---	*3*
Nov.	30	Hd.	EI	−0.015		−0.48	I	3.9	3
Dec.	2	Hd.	EI	−0.020		−0.78	I	3.4	2
	4	Fn.	EI	+0.055		+0.71	I	4.4	2½
	10	Hd.	WI	−0.024		−0.62	I	3.4	2
	21	Hd.	WI	+0.004		+0.26	I	4.4	2
	22	Fn.	WI	+0.005		−0.80	I	3.9	2½
1916									
Feb.	3	Hd.	EI	+0.014		−0.93	I	3.4	2
	7	Wy.	EI	+0.032		+0.26	I	3.9	3½
Mean		1913.82		+0.007		+0.08			
		1913.88							
Corr				−0.081		−0.23			

o^2 Canis Majoris

h m s 6 59 15.984 | ° ′ ″ −23 42 4.33

				s	"	"			
1912									
Dec.	19	R.	EII	+0.054		−0.13	I	---	5
	27	Fn.	WII	+0.046		−0.55	I	3.5	4
1913									
Jan.	14	R	WII	+0.039		−0.71	I	3.9	1½
	19	R.	EII	+0.039		−0.02	I	3.4	3½
	22	Fn.	EII	+0.005		−0.90	I	4.1	2½
Dec.	26	Fn.	WI	−0.055		−0.62	0	---	4
	30	Fn.	WI	+0.091		−0.30	I	2.9	3½
1914									
Jan.	5	Hd.	EI	+0.056		−0.11	I	3.9	3½
	8	Hd.	EI	+0.022		−1.28	0	---	4
Mean		1913.46		+0.033		−0.51			
Corr				−0.081		−0.04			

γ Canis Majoris

h m s 6 59 41.217 | ° ′ ″ −15 29 59.03

				s	"	"			
1912									
Jan.	10	Hd.	EII	−0.009		−0.02	I	3.9	--
	16	R.	WII	+0.026		−0.98	I	4.4	2½
	19	Fn.	WII	+0.088		−0.91	I	3.9	2½
Feb.	8	Fn.	EII	+0.017		−0.65	0	4.7	3½
1915									
Nov.	27	Wy.	EI	+0.002		−0.28	I	4.4	3½
	29	Wy.	EI	+0.042		−0.79	I	4.4	3
Dec.	6	Hd.	WI	+0.083		−0.68	I	4.4	3
	8	Wy.	WI	+0.028		−0.08	I	4.4	3½
Mean		1913.99		+0.035		−0.55			
Corr				−0.081		−0.11			

Lalande 13773

				h	m	s	°	′	″			
1913												
Jan.	25	Hd.	EII	7	0	57.060	−21	53	42.68	0	6.5	3
	28	R.	EII			57.060			42.23	0	7.0	2½
Feb.	4	Hd.	WII			57.088			43.12	0	6.5	4
	6	R.	WII			57.107			42.10	0	---	5
	7	Fn.	WII			57.147			42.92	0	6.6	3½
1914												
Jan.	28	Wy.	WI			57.126			42.99	0	7.3	3½
	29	R.	WI			57.083			42.79	0	---	4
Feb.	4	Hd.	EI			57.111			41.89	0	---	3
	7	Hd.	EI			57.080			42.01	0	6.5	3
Mean		1913.53		7	0	57.096	−21	53	42.53			
Corr						−0.081			−0.06			

Weisse$_2$ VI 1775

				h	m	s	°	′	″			
1912												
Feb.	2	Hd.	WII	7	2	19.172	+33	58	26.01	0	---	--
	9	Hd.	EII			19.190			25.23	0	6.0	3
	10	R.	EII			19.207			25.80	0	---	1
	22	R.	WII			19.170			25.61	0	---	3
1915												
Oct.	23	Wy.	WI			19.142			26.54	0	6.5	3
	25	Wy.	WI			19.146			26.15	0	6.5	2½
	28	Wy.	EI			19.168			25.99	0	6.5	3
	29	Hd.	EI			19.163			25.93	0	6.5	3
Mean		1913.97		7	2	19.170	+33	58	25.91			
Corr						−0.081			−0.26			

Dorpat 1830, 818 *mean*

			h	m	s	°	′	″			
1912											
Oct. 26	R.	EII	7	2	27.194	−11	9	16.58	0	6.0	4
29	R.	EII			27.209			16.88	0	6.0	3
Nov. 9	Fn.	WII			27.178			18.24	0	5.6	3
Dec. 3	R.	WII			27.143			16.96	0	6.0	2½
1913											
Dec. 12	Fn.	EI			27.187			17.80	0	---	4½
13	R.	EI			27.172			17.44	0	6.0	4
19	Fn.	WI			27.137			17.49	0	6.0	3
20	R.	WI			27.142			17.66	0	6.0	1½
Mean	1913.41		7	2	27.170	−11	9	17.38			
Corr					−0.081			−0.14			

Pulkowa 1855, 1157

			h	m	s	°	′	″			
1912											
Feb. 13	Hd.	EII	7	2	57.645	+7	36	47.14	0	6.0	2
14	R.	EII			57.635			46.86	0	6.5	5
23	Hd.	WII			57.585			47.26	0	6.0	---
27	Hd.	WII			57.611			47.50	0	6.0	2
1915											
Nov. 5	Fn.	EI			57.614			46.92	0	6.0	3
7	Hd.	EI			57.559			47.31	0	6.0	3
9	Wy.	WI			57.606			46.96	0	6.0	2
16	Hd.	WI			57.634			46.62	0	6.5	3
Mean	1914.00		7	2	57.611	+7	36	47.07			
Corr					−0.081			−0.20			

B. D. +38° 1693

			h	m	s	°	′	″			
1917											
Mar. 8	Wy.	WI	7	3	-----	+38	45	16.31	0	7.5	3½
9	Fn.	WI			-----			16.22	0	8.5	2
12	Hd.	EI			-----			16.08	0	8.0	2½
15	Wy.	EI			-----			16.52	0	7.5	2½
Mean	1917.19		7	3	-----	+38	45	16.28			
Corr					-----			−0.27			

45 Geminorum

			h	m	s	°	′	″			
1912											
Feb. 16	Hd.	EII	7	3	12.394	+16	4	30.51	0	---	2
17	R.	EII			12.378			30.97	0	5.0	2
Mar. 2	R.	WII			12.420			30.11	0	6.0	1½
7	Fn.	WII			12.452			30.41	0	5.6	2½
1915											
Nov. 30	Hd.	EI			12.414			29.50	0	6.0	3
Dec. 2	Hd.	EI			12.398			29.34	0	6.0	2
8	Wy.	WI			12.417			28.88	0	6.0	3
9	Fn.	WI			12.416			29.62	0	6.0	2½
Mean	1914.04		7	3	12.411	+16	4	29.92			
Corr					−0.081			−0.22			

Groombridge 1262

			h	m	s	°	′	″			
1913											
Feb. 8	Hd.	WII	7	3	29.64	+71	57	50.99	0	6.5	2
12	Fn.	WII			29.80			51.37	0	6.5	1½
13	R.	WII			29.58			51.76	0	6.0	3½
18	Hd.	EII			29.71			51.39	0	6.5	2
19	Fn.	EII			29.83			51.69	0	6.6	2½
Nov. 21	Fn.	WI			29.75			51.44	0	7.0	2
22	R.	WI			29.66			51.99	0	6.0	2
Dec. 5	R.	EI			29.69			50.68	0	6.0	2
8	Hd.	EI			29.63			50.37	0	7.0	3
Mean	1913.48		7	3	29.699	+71	57	51.30			
Corr					−0.081			−0.34			

Groombridge 1262 s. p.

			h	m	s	°	′	″			
1913											
May 28	R.	WII	7	3	29.60	+71	57	50.97	0	6.0	4
31	R.	WII			29.69			49.16	0	7.5	3½
June 18	R.	EII			29.64			51.15	0	7.0	2½
30	Hd.	EII			29.67			50.20	0	7.5	3½
1914											
July 9	Hd.	WI			29.67			50.81	0	7.5	2½
18	Hd.	EI			29.59			50.64	0	6.7	3
19	Hd.	EI			29.65			51.27	0	7.0	3
Aug. 13	Hd.	WI			29.75			52.63	0	6.0	3½
Mean	1914.00		7	3	29.658	+71	57	50.85			
Corr					−0.081			+0.57			

δ Canis Majoris

			h	m	s	°	′	″			
			7	4	43.856	−26	14	59.19			
					s			″			
1912											
Dec. 19	R.	EII			+0.084			+0.39	I	---	5
21	R.	EII			+0.079			+1.31	0	---	3
27	Fn.	WII			+0.113			−1.52	I	1.9	4
1913											
Jan. 9	R.	WII			+0.022			−0.19	II	2.6	2½
Nov. 24	Hd.	WI			+0.081			−0.47	II	2.1	3½
Dec. 9	Fn.	EI			+0.101			−1.31	I	2.4	3
11	Hd.	EI			+0.136			−0.50	I	2.9	3½
18	Hd.	WI			−0.007			+0.29	I	2.9	3½
1916											
Sept. 7	*Wy.*	*WI*			*+0.083*	*−0.60*		*−0.62*	*0*	---	*4*
18	*Hd.*	*EI*			*+0.015*	*−0.29*		*−0.18*	*0*	---	*3½*
1917											
Mar. 19	Fn.	EI			+0.117			+1.43	I	2.9	3
20	Hd.	EI			+0.116			−1.44	I	3.9	3½
May 1	*Fn.*	*EI*			*+0.036*	*+0.36*		*+0.59*	*0*	---	*3½*
July 16	*Wy.*	*EII*			-----	*−0.16*		*−0.02*	*0*	---	*4*
Aug. 9	*Wy.*	*WII*			*+0.060*	*+0.51*		*+0.92*	*0*	---	*4*
20	*Wy.*	*WII*			-----	*+0.02*		*+0.08*	*0*	---	*4*
24	*Wy.*	*EII*			*+0.096*	*+0.48*		*+0.60*	*0*	---	*3½*
1918											
Feb. 11	Wy.	WII			+0.114			−0.67	I	3.9	4
28	Wy.	EII			+0.135			−0.47	0	---	5
Mar. 7	Fn.	EII			+0.049			+0.53	I	2.9	3
8	Wy.	EII			+0.076			−0.97	I	---	4
18	Wy.	WII			+0.104			−0.10	I	2.9	4½
Mean	1915.53				+0.088			−0.25			
Corr					−0.081			−0.02			

63 Aurigæ

			h	m	s	°	′	″			
			7	5	28.089	+39	28	5.38			
1912											
Jan. 20	R.	WII			−0.041			−0.17	0	5.5	3
21	Hd.	WII			−0.014			−0.04	I	4.4	2
27	R.	EII			−0.097			+0.32	0	5.5	1
Feb. 8	Fn.	EII			−0.002			+0.72	0	5.1	2½
1915											
Oct. 27	Fn.	WI			−0.047			−1.13	0	5.0	2
30	Fn.	EI			−0.021			+0.25	0	5.0	2½
Nov. 1	Hd.	EI			−0.034			−0.02	0	5.5	3
15	Wy.	WI			−0.053			+0.98	I	4.9	2½
1916											
Feb. 7	Wy.	EI			−0.023			----	0	5.5	3
1917											
Jan. 11	Wy.	EI			−0.067			----	0	6.0	2½
1918											
Jan. 29	Wy.	WII			−0.066			----	0	---	3
Mar. 5	Hd.	EII			−0.057			----	0	5.5	2
11	Hd.	WII			−0.066			----	0	6.0	2
15	Fn.	WII			−0.004			----	0	5.0	1½
23	Fn.	WII			−0.034			----	0	5.0	2
Mean	1915.71				−0.042			+0.11			
	1913.95										
Corr					−0.081			−0.27			

Bradley 1041

			h	m	s	°	′	″			
1912											
Jan. 10	Hd.	EII	7	5	45.517	−4	5	44.01	I	4.4	3½
16	R.	WII			45.520			46.30	I	4.4	2
19	Fn.	WII			45.580			45.62	0	4.9	2
24	R.	EII			45.537			43.82	I	4.4	2
1915											
Dec. 4	Fn.	EI			45.474			43.47	0	5.5	2½
6	Hd.	WI			45.547			45.43	I	4.4	2
10	Hd.	WI			45.566			44.57	I	4.9	3
1916											
Jan. 3	Wy.	EI			45.522			45.25	0	6.0	3
7	Wy.	EI			45.478			44.98	I	4.9	3½
Mean	1914.22		7	5	45.527	−4	5	44.83			
Corr					−0.081			−0.16			

Bradley 1034

			h	m	s	°	′	″			
1913											
Jan. 28	R.	EII	7	5	48.239	+27	0	18.52	0	6.0	2
30	Hd.	WII			48.240			18.47	0	---	3
Feb. 4	Hd.	WII			48.257			18.37	0	6.0	3
18	Hd.	EII			48.231			18.40	0	6.0	1½
Dec. 26	Fn.	WI			48.269			17.44	0	6.0	2½
29	Hd.	WI			48.259			18.60	0	6.0	2
1914											
Jan. 5	Hd.	EI			48.230			18.22	0	6.0	2
8	Hd.	EI			48.216			17.82	0	6.5	3
Mean	1913.55		7	5	48.243	+27	0	18.23			
Corr					−0.081			−0.24			

Groombridge 1272

			h	m	s	°	′	″			
1913											
Jan. 14	R.	WII	7	6	22.492	+51	34	44.35	0	5.5	1
19	R.	EII			22.535			44.00	0	6.0	3
22	Fn.	EII			22.486			44.02	0	6.0	1½
Feb. 6	R.	WII			22.474			44.46	0	6.0	2
1914											
Jan. 28	Wy.	WI			22.622			44.01	0	6.5	3
29	R.	WI			22.572			43.87	0	6.3	3
Feb. 3	Wy.	EI			22.561			43.58	0	---	2
4	Hd.	EI			22.555			44.23	0	6.5	2
7	Hd.	EI			22.566			44.62	0	6.0	2½
Mean	1913.63		7	6	22.540	+51	34	44.13			
Corr					−0.081			−0.29			

Lalande 13850

			h	m	s	°	′	″			
1912											
Mar. 2	R.	WII	7	6	30.453	+47	45	33.36	0	7.0	2
7	Fn.	WII			30.441			33.72	0	---	2
9	R.	EII			30.458			33.65	0	7.0	2
10	Fn.	EII			30.396			33.80	0	6.8	2
1915											
Nov. 27	Wy.	EI			30.431			33.19	0	6.5	2
29	Wy.	EI			30.404			33.12	0	7.0	2
Dec. 21	Hd.	WI			30.435			32.91	0	7.5	2
22	Fn.	WI			30.441			33.33	0	7.0	2½
Mean	1914.06		7	6	30.432	+47	45	33.38			
Corr					−0.081			−0.29			

Bradley 1045

			h	m	s	°	′	″			
1912											
Feb. 13	Hd.	EII	7	6	47.669	−0	9	11.15	0	6.0	2
14	R.	EII			47.677			10.41	0	6.5	2
28	R.	WII			47.660			10.43	0	6.5	3
Mar. 1	Hd.	WII			47.631			10.18	0	6.5	2
1915											
Nov. 5	Fn.	EI			47.631			10.46	0	6.0	3
7	Hd.	EI			47.620			10.50	0	6.0	3
9	Wy.	WI			47.679			10.86	0	5.8	3
16	Hd.	WI			47.671			10.27	0	6.5	3
Mean	1914.00		7	6	47.655	−0	9	10.53			
Corr					−0.081			−0.18			

22 Monocerotis

			h	m	s	°	′	″			
1912											
Nov. 9	Fn.	WII	7	7	16.119	−0	20	35.31	I	3.5	2
22	Fn.	EII			16.188			35.62	I	4.2	2
Dec. 3	R.	WII			16.149			35.45	0	---	2½
12	R.	EII			16.086			34.31	I	4.4	1½
1913											
Dec. 12	Fn.	EI			16.152			35.84	0	---	4
13	R.	EI			16.134			35.38	I	4.4	2½
19	Fn.	WI			16.127			35.17	I	4.4	2½
20	R.	WI			16.122			35.26	I	4.4	2
Mean	1913.43		7	7	16.135	−0	20	35.29			
Corr					−0.081			−0.18			

51 Geminorum

			h	m	s	°	′	″				
			7	8	12.288	+16	18	44.34				
1912												
Feb. 2	Hd.	WII			−0.011			−0.03	0	5.5	--	
9	Hd.	EII			−0.002			−0.34	0	5.5	--	
10	R.	EII			−0.041			+0.41	0	---	1½	
22	R.	WII			−0.028			+0.15	0	---	3	
1915												
Feb. 10	Hd.	EI			-----			−0.90	0	---	2	R.
17	Fn.–Wy.	EI			-----			−0.71	0	---	2½	R.
18	Hd.–An.	EI			-----			+0.15	I	4.9	2½	
19	Fn.–Wy.	EI			-----			−0.21	0	5.5	2	
20	An.–Hd.	WI			-----			−1.20	0	---	2	R.
21	An.–Hd.	WI			-----			+0.45	0	---	3	
Mar. 1	Wy.–Fn.	WI			-----			+0.05	0	---	3½	R.
1	Wy.–Fn.	WI			-----			+0.55	0	6.0	2½	
8	Wy.–Fn.	WI			-----			+0.07	I	4.9	3	
9	Wy.–Fn.	WI			-----			+0.61	0	---	3½	R.
9	Wy.–Fn.	WI			-----			−0.86	0	6.0	3	
Oct. 23	Wy.	WI			−0.024			+0.63	I	4.9	3	
25	Wy.	WI			−0.039			−0.14	I	4.9	3	
28	Wy.	EI			−0.027			−0.04	0	---	3½	
29	Hd.	EI			−0.065			−0.04	0	5.5	3	
Mean	1913.97				−0.030			+0.05				
	1914.48											
Corr					−0.081			−0.22				

B. D.+12° 1469

			h	m	s	°	′	″			
1912											
Dec. 19	R.	EII	7	9	31.609	+12	16	16.36	0	6.5	3
21	R.	EII			31.619			16.92	0	5.5	2½
22	R.	WII			31.606			15.98	0	6.0	2½
27	Fn.	WII			31.612			17.42	0	6.5	3
1913											
Nov. 22	R.	WI			31.647			16.28	I	4.9	2
Dec. 8	Hd.	EI			31.612			16.27	0	6.0	3
9	Fn.	EI			31.632			16.08	0	6.0	2
18	Hd.	WI			31.620			16.36	0	6.0	2
Mean	1913.46		7	9	31.620	+12	16	16.46			
Corr					−0.081			−0.21			

64 Aurigæ

			h	m	s	°	′	″			
1912											
Jan. 16	R.	WII	7	11	46.914	+41	2	38.61	0	6.0	2
19	Fn.	WII			46.881			38.44	0	5.7	1½
24	R.	EII			46.869			39.03	0	6.0	1½
27	R.	EII			46.805			38.66	0	5.5	1
1915											
Oct. 27	Fn.	WI			46.843			38.28	0	6.0	2½
30	Fn.	EI			46.920			39.49	0	6.0	2½
Nov. 5	Fn.	EI			46.794			39.35	0	6.0	2
9	Wy.	WI			46.882			38.27	0	6.0	2
1916											
Feb. 7	Wy.	EI			46.864			-----	0	5.5	2½
1918											
Feb. 11	Wy.	WII			46.863			-----	0	6.0	3

1918			h m s	° ′ ″			
Mar. 8	Wy.	EII	46. 878		-----	0	6. 0 2
11	Hd.	WII	46. 807		-----	0	6. 0 2
15	Fn.	WII	46. 862		-----	0	6. 0 2
23	Fn.	WII	46. 805		-----	0	--- 2
Mean------	1915. 61		7 11 46. 856	+41 2 38. 77			
	1913. 95						
Corr----------			−0. 081	−0. 27			

25 H. Camelopardalis

h m s ° ′ ″
7 12 12. 530 +82 35 14. 13

1913			s	″	″			
Jan. 9	R.	WII	−0. 63		+0. 28	I	4. 4 2	
14	R.	WII	−0. 64		+0. 66	0	5. 5 1	
19	R.	EII	−0. 71		+0. 35	0	6. 5 2½	
28	R.	EII	−0. 55		+0. 60	0	6. 0 2	
Nov. 4	Fn.	EI	−0. 46		+0. 87	0	5. 0 3½	
5	R.	EI	−0. 35		+0. 05	I	3. 9 2	
10	Hd.	WI	−0. 65		−0. 04	0	5. 5 3½	
17	Hd.	WI	−0. 26		+0. 44	0	5. 5 3½	
1915								
Feb. 10	Hd.	EI	----		+0. 42	I	--- 2	R.
17	Fn.–Wy.	EI	----		+0. 26	0	--- 3	R.
18	Hd.–An.	EI	----		+0. 70	0	5. 0 2½	
19	Fn.–Wy.	EI	----		+0. 78	0	5. 0 2	
20	An.–Hd.	WI	----		+1. 16	I	--- 2½	R.
21	An.–Hd.	WI	----		+0. 82	0	--- 3	
22	Wy.–Fn.	WI	----		+0. 99	0	--- 3	R.
Mar. 1	Wy.–Fn.	WI	----		+1. 15	0	6. 0 3	
2	Wy.–Fn.	WI	----		+1. 04	0	--- 4	R.
1916								
Oct. 1	*Wy.*	*WI*	*−0. 72*	*+0. 33*	*+0. 30*	*0*	--- *4*	
10	*Fn.*	*WI*	*−1. 05*	*−0. 70*[1]	*−0. 74*[1]	*0*	--- *3*	
12	Fn.	WI	−0. 81		−0. 07	0	--- 3½	
16	Fn.	WI	−1. 05		+0. 33	0	--- 3½	
1917								
Mar. 22	Fn.	EI	−0. 67		+0. 91	0	5. 5 2½	
29	Wy.	WI	−0. 97		+0. 36	0	--- 3	
30	Fn.	WI	−0. 76		+0. 33	0	5. 0 2½	
Apr. 3	*Hd.*	*WI*	*−0. 46*	*+0. 50*	*+0. 50*	*0*	--- *2*	
Sept. 10	*Fn.*	*EII*	*−0. 73*	*+0. 90*	*+0. 83*	*0*	--- *3*	
12	*Hd.*	*EII*	*−1. 07*	*−0. 32*	*−0. 34*	*0*	--- *3*	
16	*Hd.*	*EII*	*−0. 93*	*+0. 77*	*+0. 72*	*0*	--- *3*	
17	*Wy.*	*EII*	*−0. 82*	*+0. 46*	*+0. 43*	*0*	--- *3½*	
30	*Hd.*	*WII*	*−0. 45*	*+0. 36*	*+0. 37*	*0*	--- *3½*	
Oct. 1	*Fn.*	*WII*	*−0. 67*	*+0. 85*	*+0. 79*	*0*	--- *3*	
1918								
Mar. 26	Wy.	WII	−0. 64		+0. 28	I	4. 4 3	
28	Fn.	WII	−0. 82		+1. 03	0	5. 0 2½	
Apr. 2	*Fn.*	*EII*	*−0. 32*	*−0. 10*	*−0. 08*	*0*	--- *3*	
5	*Fn.*	*EII*	*−0. 69*	*+0. 42*	*+0. 42*	*0*	--- *2½*	
15	*Fn.*	*EII*	*−0. 89*	*+0. 71*	*+0. 72*	*0*	--- *2½*	
Mean------	1915. 29		−0. 665		+0. 52			
	1915. 26							
Corr----------			−0. 081		−0. 38			

25 H. Camelopardalis s. p.

h m s ° ′ ″
7 12 12. 542 +82 35 14. 08

1913			s	″	″			
May 24	R.	WII	−0. 97		−1. 28	0	5. 0 3	
28	R.	WII	−0. 97		−0. 41	0	--- 3	
June 13	Fn.	EII	−0. 72		−0. 78	0	5. 0 3½	
17	Fn.	EII	−0. 78		−0. 16	0	5. 4 3	
1914								
June 17	Wy.	EI	−0. 60		+0. 16	I	4. 9 3½	
30	Hd.	WI	−0. 96		−1. 47	0	--- 3½	
July 8	Fn.	WI	−0. 63		−0. 29	0	5. 5 2½	
18	Hd.	EI	−1. 07		+0. 71	0	6. 0 --	
1916								
Sept. 28	Wy.	WI	−0. 97		+0. 10	0	6. 5 3	
Oct. 2	Wy.	WI	−0. 64		+0. 08	0	5. 0 3½	
5	Hd.	WI	−0. 84		+0. 27	I	4. 9 2	
1916			s	″	″			
Oct. 6	Wy.	WI	−0. 63		−0. 37	0	5. 0 3	
10	Fn.	WI	−1. 20		+0. 50	0	--- 2½	
12	Hd.	WI	−0. 84		+0. 13	I	4. 9 3	
17	*Fn.*	*WI*	*−0. 82*	*+0. 37*	*+0. 43*	*0*	--- *3½*	
1917								
Mar. 25	*Wy.*	*WI*	*−0. 72*	*−0. 75*	*−0. 73*	*0*	--- *3½*	
Apr. 3	*Hd.*	*WI*	*−1. 04*	*−0. 47*	*−0. 63*	*0*	--- *2½*	
Sept. 11	Fn.	EII	−0. 76		−0. 50	0	5. 0 2½	
13	Hd.	EII	−0. 44		+0. 50	0	6. 0 3	
17	Hd.	EII	−0. 69		+0. 51	0	6. 0 2	
18	Wy.	EII	−0. 83		−0. 84	0	5. 5 2½	
20	Hd.	WII	−0. 74		−0. 32	0	5. 5 3	
Oct. 2	Fn.	WII	−0. 56		−0. 31	0	5. 0 3	
4	Hd.	WII	−0. 79		−0. 43	I	4. 9 3	
11	Hd.	EII	−0. 75		−0. 03	0	5. 5 3	
15	Fn.	EII	−0. 86		−0. 51	0	--- 3½	
1918								
Mar. 25	*Wy.*	*WII*	*−0. 49*	*+0. 08*	*+0. 08*	*0*	--- *4*	
Apr. 4	*Fn.*	*EII*	*−0. 47*	*−1. 04*	*−0. 95*	*0*	--- *2½*	
21	*Fn.*	*EII*	----	*+0. 30*	*+0. 37*	*0*	--- *3*	
Mean------	1916. 17		−0. 793		−0. 21			
Corr----------			−0. 081		+0. 46			

B. D.+38° 1731

1917			h m	s	° ′ ″			
Mar. 6	Fn.	WI	7 12	-----	+38 50 10. 19	0	7. 0 2	
8	Wy.	WI		-----	11. 17	0	7. 0 3	
12	Hd.	EI		-----	10. 44	0	7. 0 2	
15	Wy.	EI		-----	10. 58	0	7. 0 2½	
Mean------	1917. 19		7 12	-----	+38 50 10. 60			
Corr----------				-----	−0. 27			

λ Geminorum

h m s ° ′ ″
7 12 55. 308 +16 42 11. 97

1911			s	″	″			
Sept. 13	*Fn.*	*WII*	-----	*+0. 28*	*+0. 31*	*0*	--- *2½*	
Oct. 4	*Hd.*	*EII*	*−0. 024*	*+0. 30*	*+0. 32*	*0*	--- *3*	
5	*Hd.*	*EII*	*−0. 046*	*+0. 26*	*+0. 28*	*0*	--- *2*	
1912								
Feb. 4	Fn.	WII	−0. 011		----	I	3. 3 2½	
13	Hd.	EII	+0. 032		----	I	2. 9 --	
16	Hd.	EII	−0. 039		+0. 53	0	--- --	
17	R.	EII	+0. 003		+0. 37	I	3. 4 2	
22	R.	WII	+0. 052		----	I	--- 3	
23	Hd.	WII	−0. 023		+0. 11	I	3. 1 2	
27	Hd.	WII	+0. 024		−0. 26	I	3. 9 --	
28	R.	WII	+0. 009		----	I	3. 4 3	
Mar. 1	Hd.	WII	+0. 009		----	I	2. 9 --	
7	Fn.	WII	−0. 012		----	I	2. 9 2½	
9	R.	EII	+0. 035		----	I	3. 9 2	
17	R.	EII	+0. 010		+0. 64	I	3. 9 2	
25	Fn.	WII	+0. 026		−0. 30	I	3. 2 2	
26	Hd.	WII	+0. 024		−0. 20	I	3. 4 --	
Apr. 9	*R.*	*WII*	-----	*−0. 56*	*−0. 50*	*0*	--- *4*	
Sept. 8	*Hd.*	*EII*	*−0. 024*	*+0. 53*	*+0. 53*	*0*	--- *3½*	
9	*R.*	*EII*	*−0. 012*	*+0. 21*	*+0. 19*	*0*	--- *3*	
10	*Hd.*	*EII*	-----	*+0. 20*	*+0. 18*	*0*	--- *3½*	
12	*Hd.*	*WII*	-----	*−0. 07*	*−0. 07*	*0*	--- *2*	
Dec. 16	Fn.	EII	−0. 021		----	I	3. 8 1½	
1913								
Feb. 6	R.	WII	−0. 004		+0. 83	I	3. 9 2	
7	Fn.	WII	+0. 026		+0. 23	I	3. 2 2½	
8	Hd.	WII	+0. 017		----	I	3. 4 2	
12	Fn.	WII	−0. 004		----	I	3. 3 2	
13	R.	WII	−0. 013		----	I	2. 9 3	
14	Fn.	WII	+0. 017		+0. 17	I	3. 4 2½	
15	Hd.	WII	+0. 007		−0. 15	I	3. 4 2	
18	Hd.	EII	+0. 008		----	I	3. 1 1½	
19	Fn.	EII	−0. 023		----	I	3. 6 2½	
21	Fn.	EII	+0. 006		+0. 82	0	--- 3	
25	Hd.	EII	+0. 011		+1. 49	I	3. 1 2	
28	Fn.	EII	+0. 019		+0. 65	0	--- 3½	
Mar. 3	Fn.	EII	0. 000		+0. 42	I	3. 4 2½	

[1] Points of bisection doubtful.

				″	″			
1913								
Mar. 5	Fn.	EII	+0.020		−0.30	I	3.4	2½
12	Fn.	EII	+0.021		+0.52	0	...	2
17	Fn.	WII	+0.007		+0.17	I	3.4	2
Nov. 24	Hd.	WI	−0.009		+0.82	I	3.4	3
Dec. 20	R.	WI	−0.008		----	I	3.9	2
26	Fn.	WI	−0.015		----	I	3.9	2½
29	Hd.	WI	+0.037		----	I	3.9	2
30	Fn.	WI	−0.003		+0.40	I	3.9	2
1914								
Jan. 5	Hd.	EI	−0.043		----	I	3.9	3
8	Hd.	EI	−0.012		+0.08	I	3.4	3
9	R.	EI	−0.014		----	I	3.4	2½
17	Wy.	WI	+0.012		+0.05	I	2.9	3½
Feb. 2	Fn.	WI	0.000		+0.33	0	...	2
3	Wy.	EI	−0.012		----	I	...	2½
4	Hd.	EI	−0.003		----	0	...	2
7	Hd.	EI	−0.008		----	I	3.4	2
9	Fn.	EI	+0.025		−0.01	0	...	3½
11	Hd.	EI	−0.001		----	I	3.4	2
15	Fn.	WI	−0.002		+0.39	0	...	2
16	Fn.	WI	−0.018		----	I	3.9	2
21	Hd.	WI	+0.025		----	I	3.4	2
Mar. 3	Wy.	WI	+0.055		----	0	...	3
4	Hd.	WI	+0.002		−0.25	I	...	3
7	Hd.	EI	−0.002		+0.15	I	3.9	2
9	Fn.	WI	0.000		----	0	...	2
10	Wy.	WI	−0.004		+0.67	I	3.4	2
12	Fn.	WI	−0.005		----	0	...	3
13	Wy.	WI	+0.004		----	I	3.4	2
16	Fn.	WI	+0.046		+0.57	0	...	3
18	Hd.	EI	0.000		+0.61	I	3.4	2
21	Hd.	EI	+0.027		+0.40	0	...	3
Apr. 5	*Wy.*	*WI*	-----	*+0.41*	*+0.43*	*0*	...	*3*
Aug. 21	*An.*	*WI*	*+0.107*	*+0.76*	*+0.78*	*0*	...	*3½*
30	*Fn.*	*WI*	*−0.038*	----	----	*0*	...	*3*
Sept. 3	*Fn.*	*WI*	*+0.071*	*−0.16*	*−0.17*	*0*	...	*3*
14	*An.*	*EI*	*+0.004*	*+0.38*	*+0.39*	*0*	...	*3*
20	*Hd.*	*EI*	*0.000*	*+0.18*	*+0.20*	*0*	...	*2*
27	*Wy.*	*WI*	-----	*+0.77*	*+0.80*	*0*	...	*3½*
1915								
Jan. 16	An.	WI	+0.031		----	0	...	3
Mar. 30	Fn.	EI	-----		+0.73	0	...	2
Aug. 12	*An.*	*EI*	*−0.017*	*−0.31*	*−0.27*	*0*	...	*3*
17	*Wy.*	*WI*	*+0.010*	*+0.26*	*+0.37*	*0*	...	*3½*
Sept. 2	*Hd.*	*WI*	*−0.047*	*−0.12*	*−0.08*	*0*	...	*3*
8	*Wy.*	*WI*	-----	*+0.80*	*+0.80*	*0*	...	*3½*
12	*Hd.*	*EI*	*+0.038*	*−0.43*	*−0.42*	*0*	...	*2½*
13	*Wy.*	*EI*	*−0.024*	*+0.06*	*+0.06*	*0*	...	*3½*
15	*Wy.*	*EI*	*−0.014*	*−0.33*	*−0.32*	*0*	...	*3*
16	*Hd.*	*EI*	-----	*−0.23*	*−0.23*	*0*	...	*3*
22	*Wy.*	*EI*	*+0.025*	----	----	*0*	...	*3*
24	*Wy.*	*EI*	*+0.008*	*+0.37*	*+0.38*	*0*	...	*3*
Oct. 3	*Wy.*	*WI*	*+0.001*	*−0.52*	*−0.50*	*I*	...	*3*
Nov. 15	Wy.	WI	+0.010		----	I	3.9	3
16	Hd.	WI	+0.004		----	I	4.4	2
24	Wy.	EI	+0.006		----	I	3.4	2
27	Wy.	EI	−0.002		----	I	3.4	2
29	Wy.	EI	−0.010		+0.48	I	3.4	2
30	Hd.	EI	−0.009		----	I	3.9	2
Dec. 2	Hd.	EI	+0.011		−0.64	I	3.4	2
6	Hd.	WI	−0.011		----	I	3.4	2
8	Wy.	WI	+0.028		----	I	3.9	3
9	Fn.	WI	+0.010		----	I	4.4	2½
10	Hd.	WI	−0.021		−0.09	I	3.4	2
21	Hd.	WI	−0.015		----	I	...	2
22	Fn.	WI	−0.013		----	I	3.9	2½
23	Hd.	WI	+0.003		----	0	...	3½
1916								
Jan. 7	Wy.	EI	−0.021		−0.08	I	3.4	3
Feb. 3	Hd.	EI	+0.010		−0.29	I	3.4	3
7	Wy.	EI	−0.017		+0.40	I	3.9	3
16	Wy.	WI	+0.003		−0.46	0	...	3½
Mean	1913.98		+0.004		+0.26			
	1913.86							
Corr			−0.081		−0.22			

Weisse$_1$ VII 312

			h	m	s	°	′	″			
1912											
Jan. 20	R.	WII	7	13	8.410	−6	31	7.10	0	6.0	4
21	Hd.	WII			8.485			6.22	0	6.2	3
Feb. 8	Fn.	EII			8.426			6.92	0	6.5	3
9	Hd.	EII			8.490			7.71	0	6.0	4
1915											
Oct. 23	Wy.	WI			8.421			6.69	0	6.5	3
25	Wy.	WI			8.424			6.60	0	6.5	3
29	Hd.	EI			8.436			7.33	0	6.5	3½
Nov. 1	Hd.	EI			8.468			7.26	0	6.5	3½
Mean	1913.95		7	13	8.445	−6	31	6.98			
Corr					−0.081			−0.15			

π Argûs

			h	m	s	°	′	″			
			7	13	-----	−36	56	8.35			
1912											
Oct. 20	Hd.	EII			-----			+1.3	0	...	5
29	R.	EII			-----			+0.7	0	...	--
1913											
Dec. 8	Hd.	EI			-----			+2.5	I	...	4½
19	Fn.	WI			-----			+0.2	0	...	4
29	Hd.	WI			-----			+0.4	I	...	3½
1914											
Feb. 21	Hd.	WI			-----			+0.5	I	...	3½
26	Fn.	EI			-----			−0.9	0	...	4
Mar. 3	Wy.	WI			-----			−0.6	0	...	4
9	Fn.	WI			-----			−1.7	0	...	3½
12	Fn.	WI			-----			+0.2	0	...	3
13	Wy.	WI			-----			−0.4	0	...	3
24	Wy.	EI			-----			+0.8	0	...	4
26	Fn.	EI			-----			+1.5	0	...	4
Mean	1913.93				-----			+0.35			
Corr					-----			+0.19			

Weisse$_1$ VII 350

			h	m	s	°	′	″			
1912											
Dec. 16	Fn.	EII	7	14	40.225	+2	54	22.71	0	6.6	1½
19	R.	EII			40.209			22.58	0	6.5	2½
22	R.	WII			40.223			22.59	0	6.5	3½
27	Fn.	WII			40.202			22.83	0	6.7	3
1913											
Nov. 22	R.	WI			40.173			22.36	0	5.5	2
Dec. 9	Fn.	EI			40.203			22.30	0	6.5	2½
11	Hd.	EI			40.198			22.56	0	6.0	2
18	Hd.	WI			40.183			22.43	0	6.2	2
Mean	1913.45		7	14	40.202	+2	54	22.54			
Corr					−0.081			−0.19			

δ Geminorum[1]

			h	m	s	°	′	″			
			7	14	44.975	+22	8	55.47			
1912											
Feb. 2	Hd.	WII			−0.026			−0.02	I	2.9	--
10	R.	EII			+0.007			+0.18	0	...	1
13	Hd.	EII			−0.013			−0.02	I	3.1	2
22	R.	WII			−0.035			+0.23	I	...	3
1915											
Nov. 7	Hd.	EI			−0.043			−0.27	I	3.4	2
9	Wy.	WI			−0.003			+0.05	I	3.9	2
15	Wy.	WI			−0.011			+0.52	I	3.9	2½
16	Hd.	WI			−0.068			−0.08	I	4.4	2
22	Hd.	EI			+0.030			−1.28	I	3.4	2
Mean	1914.20				−0.018			−0.08			
Corr					−0.081			−0.23			

[1] Double; n. fol. component observed.

R Canis Majoris

			h	m	s	°	′	″			
1913											
Feb. 12	Fn.	WII	7	15	23.874	−16	13	33.87	0	5.8	2½
13	R.	WII			23.854			33.08	0	---	5
14	Fn.	WII			23.883			34.03	0	5.7	3
18	Hd.	EII			23.802			33.03	0	6.0	2
19	Fn.	EII			23.752			33.60	0	6.6	3
Dec. 12	Fn.	EI			23.868			34.41	0	---	4½
13	R.	EI			23.862			32.83	0	---	5
20	R.	WI			23.828			33.42	0	6.0	3
26	Fn.	WI			23.808			33.42	0	6.5	3½
1914											
Jan. 5	Hd.	EI			23.877			33.41	0	6.5	3
Mean	1913.55		7	15	23.841	−16	13	33.51			
Corr					−0.081			−0.11			

19 Lyncis [1]

			h	m	s	°	′	″			
1912											
Mar. 2	R.	WII	7	15	31.625	+55	27	6.88	0	6.5	2
7	Fn.	WII			31.719			7.19	0	5.7	2
13	Fn.	EII			31.715			7.53	0	---	2
16	Fn.	EII			31.691			7.48	0	5.8	1½
1915											
Nov. 24	Wy.	EI			31.676			6.24	0	5.5	2
27	Wy.	EI			31.720			6.68	I	5.4	2½
Dec. 6	Hd.	WI			31.683			7.01	0	6.0	2
8	Wy.	WI			31.728			7.21	0	6.0	2½
Mean	1914.06		7	15	31.695	+55	27	7.03			
Corr					−0.081			−0.30			

Bradley 1063

			h	m	s	°	′	″			
1912											
Feb. 28	R.	WII	7	16	1.961	+36	55	49.88	0	5.5	3
Mar. 1	Hd.	WII			1.961			50.10	I	4.4	2
9	R.	EII			1.950			50.24	0	5.5	1
10	Fn.	EII			1.933			50.29	0	5.1	2½
1915											
Nov. 29	Wy.	EI			1.913			50.29	0	5.5	2
30	Hd.	EI			1.916			50.22	0	5.5	3
Dec. 21	Hd.	WI			1.872			50.01	0	---	2
23	Hd.	WI			1.855			50.17	0	5.5	3½
Mean	1914.06		7	16	1.920	+36	55	50.15			
Corr					−0.081			−0.26			

Bradley 1065

			h	m	s	°	′	″			
1913											
Feb. 7	Fn.	WII	7	16	38.274	+20	36	51.52	0	5.8	2½
8	Hd.	WII			38.312			50.04	0	6.0	2
17	Fn.	EII			38.317			50.66	0	6.4	3
25	Hd.	EII			38.299			51.14	0	5.8	2
1914											
Jan. 28	Wy.	WI			38.279			51.92	0	5.5	3
31	Wy.	WI			38.319			51.42	0	---	3
Feb. 3	Wy.	EI			38.259			50.74	0	---	3
7	Hd.	EI			38.305			51.27	0	6.0	2
Mean	1913.60		7	16	38.296	+20	36	51.09			
Corr					−0.081			−0.23			

Lacaille 2747

			h	m	s	°	′	″			
1912											
Jan. 16	R.	WII	7	17	15.751	−26	47	40.87	0	7.0	4
19	Fn.	WII			15.727			38.93	0	6.6	3½
27	R.	EII			15.695			39.40	0	7.0	3
Feb. 17	R.	EII			15.746			39.59	0	---	5
1915											
Dec. 2	Hd.	EI			15.693			39.70	0	7.5	3
4	Fn.	EI			15.703			40.86	0	7.0	3½
10	Hd.	WI			15.854			41.96	0	6.5	3½
22	Fn.	WI			15.750			41.12	0	7.0	3½
Mean	1914.00		7	17	15.740	−26	47	40.30			
Corr					−0.081			−0.01			

66 Aurigæ

			h	m	s	°	′	″			
1912											
Feb. 23	Hd.	WII	7	17	54.676	+40	50	47.50	0	5.5	--
27	Hd.	WII			54.739			46.86	I	4.9	--
Mar. 13	Fn.	EII			54.689			46.93	0	5.7	2
17	R.	EII			54.665			47.19	0	5.5	1
1915											
Nov. 1	Hd.	EI			54.672			47.10	0	5.5	3½
5	Fn.	EI			54.667			47.09	0	5.5	2
15	Wy.	WI			54.642			49.02	0	5.5	2½
Dec. 9	Fn.	WI			54.718			47.84	0	5.5	1½
1916											
Feb. 7	Wy.	EI			54.672			-----	0	5.5	2½
1917											
Jan. 22	Wy.	EI			54.739			-----	0	6.5	3
Mar. 8	Wy.	WI			54.648			-----	0	6.0	3½
28	Hd.	WI			54.717			-----	I	4.9	2
1918											
Feb. 11	Wy.	WII			54.675			-----	0	5.5	3
Mar. 8	Wy.	EII			54.704			-----	0	5.5	2
15	Fn.	WII			54.715			-----	0	5.5	2
Mean	1915.62		7	17	54.689	+40	50	47.44			
	1914.02										
Corr					−0.081			−0.27			

Radcliffe 1845, 1928

			h	m	s	°	′	″			
1912											
Nov. 4	R.	WII	7	19	5.43	+78	52	23.06	0	7.2	2
22	Fn.	EII			5.50			23.40	0	---	--
Dec. 3	R.	WII			5.58			23.81	0	---	2
12	R.	EII			5.81			24.63	0	7.5	1½
1913											
Dec. 29	Hd.	WI			5.63			23.82	0	7.5	2
30	Fn.	WI			5.73			23.13	0	7.0	2½
1914											
Jan. 5	Hd.	EI			5.51			23.66	0	7.5	3
8	Hd.	EI			5.35			23.80	0	8.0	3
Mean	1913.45		7	19	5.568	+78	52	23.66			
Corr					−0.081			−0.37			

Radcliffe 1845, 1928 s. p.

			h	m	s	°	′	″			
1913											
June 9	Hd.	WII	7	19	5.42	+78	52	23.10	0	8.0	3½
10	R.	WII			5.67			22.43	0	8.0	3½
12	Hd.	EII			5.48			23.25	0	8.0	3½
18	R.	EII			5.31			23.13	0	8.0	2
1914											
June 16	Hd.	EI			5.53			22.21	0	8.0	3½
17	Wy.	EI			5.64			22.59	0	8.0	3½
23	Hd.	WI			5.63			22.82	0	8.0	3
30	Hd.	WI			5.52			23.72	0	8.0	3½
Mean	1913.96		7	19	5.525	+78	52	22.91			
Corr					−0.081			+0.49			

ι Geminorum

			h	m	s	°	′	″			
			7	20	8.291	+27	58	39.31			
					s						
1911											
Oct. 4	*Hd.*	*EII*			*−0.025*				*0*	---	*3*
5	*Hd.*	*EII*			*−0.037*				*0*	---	*2*
1912											
Feb. 10	R.	EII			+0.008				0	---	1
13	Hd.	EII			+0.001				I	3.4	--
Mar. 17	R.	EII			−0.012			+0.39	I	4.4	1
19	Hd.	EII			−0.024			+0.35	0	---	--
22	Hd.	EII			−0.027			0.00	I	3.4	2
25	Fn.	WII			+0.009			−0.13	I	3.4	--
26	Hd.	WII			−0.018			−0.17	I	2.9	2
Sept. 19	*Hd.*	*WII*			*+0.055*				*0*	---	*2*
Oct. 29	R.	EII			+0.023				I	---	2
Dec. 21	R.	EII			−0.001				I	---	2
28	R.	WII			+0.025			−0.16	I	3.4	2
1913											
Jan. 14	R.	WII			+0.002				I	4.4	1½
19	R.	EII			−0.038				I	3.9	2

[1] Double; s. fol component observed.

				s	"	"			
1913									
Feb.	13	R.	WII	−0.011		----	I	---	5
	14	Fn	WII	−0.024		----	I	---	2½
	15	Hd.	WII	+0.022		−0.29	I	3.4	2
	18	Hd.	EII	+0.010		----	I	3.4	2
	19	Fn.	EII	+0.036		----	I	3.9	2½
	28	Fn.	EII	+0.033		----	I	3.4	3
Mar.	3	Fn.	EII	+0.004		+0.07	0	4.5	2
	5	Fn.	EII	+0.003		----	I	3.7	2
	6	Hd.	EII	−0.031		+1.07	I	3.4	3
	7	Fn.	EII	+0.015		+0.11	I	3.4	1½
	11	Hd.	EII	−0.009		----	I	3.9	3
	12	Fn.	EII	−0.016		----	0	---	2
	17	Fn.	WII	+0.043		+0.72	I	3.9	2
	18	Hd.	WII	+0.014		----	I	3.4	2
	21	Fn.	WII	+0.013		−0.44	I	3.5	3½
Nov.	17	Hd.	WI	+0.029		----	II	3.6	3
	21	Fn.	WI	+0.001		+0.31	I	3.9	1½
	22	R.	WI	+0.030		----	I	2.9	2
	24	Hd.	WI	+0.024		----	I	3.4	2
Dec.	3	R.	EI	+0.004		----	I	2.9	2
	5	R.	EI	−0.042		−1.16	I	3.4	2
	8	Hd.	EI	−0.031		----	I	3.4	2
	9	Fn.	EI	−0.002		----	I	3.9	2
	11	Hd.	EI	−0.009		----	I	3.9	2
	12	Fn.	EI	−0.032		----	I	3.9	3½
	13	R.	EI	−0.010		----	I	3.4	2½
	18	Hd.	WI	+0.008		----	I	3.4	2
	19	Fn.	WI	−0.033		----	I	3.9	2
	20	R.	WI	+0.005		----	I	3.9	2
	26	Fn.	WI	−0.006		----	I	3.9	2½
1914									
Jan.	13	Wy.	EI	+0.011		----	I	2.8	2
	15	Hd.	EI	−0.030		----	I	2.9	2
Feb.	2	Fn.	WI	−0.007		----	0	---	2½
	15	Fn.	WI	−0.001		----	0	---	2
	21	Hd.	WI	+0.010		−0.65	I	3.9	2
Mar.	4	Hd.	WI	−0.015		−0.05	I	---	3
	7	Hd.	EI	−0.025		−0.56	I	3.8	2
	9	Fn.	WI	+0.005		----	I	4.4	2
	10	Wy.	WI	−0.027		----	I	3.4	2
	13	Wy.	WI	−0.018		----	I	3.4	2½
	16	Fn.	WI	+0.032		----	0	---	3
	20	Wy.	EI	−0.010		----	I	3.4	3
	24	Wy.	EI	−0.018		----	I	3.4	2
Aug.	*21*	*An.*	*WI*	*−0.077*	----	----	*0*	---	*3½*
Sept.	*1*	*Wy.*	*WI*	*−0.025*	----	----	*0*	---	*3½*
	4	*Wy.*	*WI*	*−0.002*	----	----	*0*	---	*3½*
	8	*Fn.*	*EI*	*−0.059*	----	----	*0*	---	*3*
	9	*An.*	*EI*	*+0.025*	----	----	*0*	---	*3½*
	14	*An.*	*EI*	*−0.014*	----	----	*0*	---	*3*
	20	*Hd.*	*EI*	*+0.004*	----	----	*I*	---	*3*
	21	*Wy.*	*EI*	*−0.001*	----	----	*0*	---	*2*
	22	*An.*	*EI*	*−0.002*	----	----	*0*	---	*3*
Oct.	20	Hd.	EI	+0.023		----	0	---	2
1915									
Aug.	*12*	*An.*	*EI*	*−0.013*	----	----	*0*	---	*3*
Sept.	*2*	*Hd.*	*WI*	*−0.047*	----	----	*0*	---	*2½*
	8	*Wy.*	*WI*	*+0.016*	----	----	*0*	---	*3½*
	9	*Hd.*	*WI*	*−0.026*	----	----	*0*	---	*3*
	12	*Hd.*	*EI*	*−0.005*	----	----	*0*	---	*2½*
	13	*Wy.*	*EI*	*−0.030*	----	----	*0*	---	*3*
	15	*Wy.*	*EI*	*+0.014*	*+0.17*	*+0.18*	*0*	---	*3*
	24	*Wy.*	*EI*	*−0.004*	----	----	*0*	---	*3*
Oct.	*3*	*Wy.*	*WI*	*−0.015*	----	----	*0*	---	*2½*
Nov.	10	Hd.	WI	−0.007		----	I	2.9	2
	30	Hd.	EI	+0.009		----	I	3.9	2
Dec.	8	Wy.	WI	−0.022		----	I	3.9	2½
1916									
Jan.	3	Wy.	EI	+0.036		----	I	3.4	2½
	7	Wy.	EI	+0.017		−0.60	I	3.4	2½
	8	Fn.	EI	+0.012		−0.76	I	4.4	2½
Feb.	3	Hd.	EI	+0.020		----	I	3.4	2
	7	Wy.	EI	+0.017		----	I	3.9	3
	16	Wy.	WI	−0.023		----	0	---	3½
Mean		1913.84		0.000		−0.10			
		1913.45							
Corr				−0.081		−0.25			

η Canis Majoris

	h	m	s	°	′	″
	7	20	32.155	−29	7	37.26

1912									
Dec.	9	Fn.	WII	−0.033		−0.52	I	---	4
	13	Fn.	EII	−0.029		−1.35	I	2.6	3½
	19	R.	EII	−0.031		−0.07	I	3.9	3
	27	Fn.	WII	+0.013		+0.26	I	---	4½
1913									
Nov.	4	Fn.	EI	−0.003		+0.31	I	2.3	4
	5	R.	EI	+0.024		+1.52	I	1.9	4
	10	Hd.	WI	−0.015		−0.68	I	3.9	4
	20	Hd.	WI	−0.112		+0.16	I	2.9	3½
Mean		1913.41		−0.023		−0.43			
Corr				−0.081		+0.01			

Lalande 14451

	h	m	s	°	′	″			
1912									
Jan.	20	R.	WII	7 21	0.273	−13 34	27.70	0	5.5 4
	21	Hd.	WII		0.367		27.93	0	6.2 3½
Feb.	8	Fn.	EII		0.319		26.88	0	6.6 3
	9	Hd.	EII		0.346		27.84	0	6.8 3
1915									
Oct.	23	Wy.	WI		0.274		27.34	0	6.5 4
	25	Wy.	WI		0.247		27.62	0	6.5 3½
	29	Hd.	EI		0.255		28.53	0	6.5 3½
	30	Fn.	EI		0.261		27.66	0	6.5 3
Mean		1913.95		7 21	0.293	−13 34	27.69		
Corr					−0.081		−0.12		

B. D. +38° 1760

	h	m	s	°	′	″			
1917									
Mar.	6	Fn.	WI	7 21	-----	+38 50	51.71	0	7.0 2
	8	Wy.	WI		-----		51.70	0	7.5 3½
	12	Hd.	EI		-----		50.43	0	7.5 2
	15	Wy.	EI		-----		50.86	0	7.0 2½
Mean		1917.19		7 21	-----	+38 50	51.18		
Corr					-----		−0.27		

Groombridge 1308

	h	m	s	°	′	″
	7	21	31.585	+68	39	2.10

1912									
Feb.	2	Hd.	WII	−0.19		+0.58	0	6.0	2
	13	Hd.	EII	−0.11		+0.51	0	6.0	--
	14	R.	EII	−0.20		+0.78	0	6.5	1½
	22	R.	WII	−0.20		+1.61	0	---	4
1915									
Nov.	7	Hd.	EI	−0.18		+0.51	0	6.0	2
	15	Wy.	WI	−0.12		+1.78	0	6.0	3
	16	Hd.	WI	−0.16		+0.17	0	6.0	3
	22	Hd.	EI	−0.13		+0.32	0	6.0	2
Mean		1914.00		−0.161		+0.78			
Corr				−0.081		−0.34			

Groombridge 1308 s. p.

	h	m	s	°	′	″
	7	21	31.585	+68	39	2.10

1913									
July	3	R.	EII	−0.34		−0.85	0	---	3½
	4	Hd.	EII	−0.10		−0.07	0	7.5	3½
	11	Hd.	WII	−0.10		−0.64	0	6.5	3½
	12	Fn.	WII	−0.29		−0.62	0	---	4½
1914									
June	29	Fn.	WI	−0.34		+0.78	0	---	4½
July	8	Fn.	WI	−0.07		+0.32	0	6.0	3½
	18	Hd.	EI	−0.26		+0.28	0	6.5	3
	19	Hd.	EI	−0.25		+0.22	0	6.0	3
Mean		1914.02		−0.219		−0.07			
Corr				−0.081		+0.65			

β Canis Minoris

h m s 7 22 16.247 ° ′ ″ +8 28 16.44

				s	″	″			
1911									
Aug. *18*	*R.*	*EII*		*−0.035*	*−0.76*	*−0.72*	*0*	---	--
Oct. *4*	*Hd.*	*EII*		*+0.014*	*+0.24*	*+0.26*	*0*	---	*3*
5	*Hd.*	*EII*		*−0.019*	*−0.54*	*−0.52*	*0*	---	*2*
1912									
Jan. 9	R.	EII		−0.003		----	I	2.9	3
Feb. 10	R.	EII		+0.031		----	0	---	1
16	Hd.	EII		−0.022		----	I	3.4	2
Mar. 2	R.	WII		−0.022		−0.09	I	3.4	1½
7	Fn.	WII		+0.007		+0.48	I	2.3	2
10	Fn.	EII		−0.019		----	I	---	--
13	Fn.	EII		+0.021		−0.07	I	2.8	2½
16	Fn.	EII		−0.002		−0.25	I	2.4	2½
19	Hd.	EII		+0.014		----	0	---	--
22	Hd.	EII		+0.009		−0.62	II	2.6	2
25	Fn.	WII		+0.010		+0.11	I	2.7	2
26	Hd.	WII		+0.029		+0.24	I	2.7	--
29	Hd.	WII		-----		+0.21	I	2.4	--
Sept. *8*	*Hd.*	*EII*		*+0.060*	*−1.03*	*−1.03*	*0*	---	--
9	*R.*	*EII*		*−0.021*	*−0.48*	*−0.49*	*0*	---	*2½*
10	*Hd.*	*EII*		-----	*−0.32*	*−0.34*	*0*	---	--
12	*Hd.*	*WII*		-----	*0.00*	*0.00*	*0*	---	--
15	*Hd.*	*WII*		-----	*−0.48*	*−0.44*	*0*	---	*2*
19	*Hd.*	*WII*		*+0.031*	*+0.42*	*+0.38*	*0*	---	--
Oct. 29	R.	EII		−0.002		−0.26	I	3.4	2½
Dec. 16	Fn.	EII		−0.013		----	0	---	--
21	R.	EII		+0.027		+0.72	I	---	2½
22	R.	WII		+0.009		----	I	3.4	3
1913									
Jan. 9	R.	WII		+0.016		----	II	2.6	2
19	R.	EII		+0.027		----	I	2.9	2
Feb. 7	Fn.	WII		−0.019		+0.27	I	2.9	2
8	Hd.	WII		−0.011		−0.78	I	3.4	2
28	Fn.	EII		−0.003		+0.03	I	2.9	3
Mar. 3	Fn.	EII		+0.014		−0.48	0	---	2
5	Fn.	EII		−0.015		−0.16	I	2.9	2
6	Hd.	EII		+0.018		−0.09	II	3.1	3
11	Hd.	EII		+0.018		+0.28	I	2.9	3
12	Fn.	EII		−0.010		−0.23	0	---	2
17	Fn.	WII		+0.003		+0.36	I	2.7	2
18	Hd.	WII		−0.003		−0.06	I	2.7	2
21	Fn.	WII		+0.029		−0.32	I	3.3	3½
Nov. 5	R.	EI		+0.003		+0.16	I	2.4	2
17	Hd.	WI		−0.021		----	II	3.1	2
24	Hd.	WI		+0.014		----	II	3.1	3
1914									
Jan. 13	Wy.	EI		−0.004		+0.66	I	1.9	3
15	Hd.	EI		−0.002		+0.19	I	2.9	3
17	Wy.	WI		+0.006		+0.45	I	3.4	3
31	Wy.	WI		−0.039		+0.24	I	3.2	2½
Feb. 2	Fn.	WI		−0.003		+0.29	0	---	2½
3	Wy.	EI		+0.011		+0.53	0	---	3
7	Hd.	EI		+0.021		+0.89	I	3.4	2
9	Fn.	EI		+0.030		+0.12	I	3.4	3½
11	Hd.	EI		+0.005		−0.16	I	3.4	2½
15	Fn.	WI		−0.015		+0.38	0	---	2
16	Fn.	WI		−0.027		----	I	3.4	2
26	Fn.	EI		-----		+0.47	I	3.4	2½
27	Wy.	EI		−0.012		+0.30	I	2.9	2
Mar. 3	Wy.	WI		+0.017		−0.98	I	3.4	2
9	Fn.	WI		+0.008		+0.25	I	3.9	2
10	Wy.	WI		+0.006		+0.17	I	2.9	2
13	Wy.	WI		+0.036		+0.14	I	2.9	2
16	Fn.	WI		−0.011		+0.86	0	---	3
20	Wy.	EI		−0.035		+0.20	I	2.9	3
21	Hd.	EI		−0.035		----	0	---	3
24	Wy.	EI		+0.057		+0.07	I	2.9	2½
Sept. *1*	*Wy.*	*WI*		*+0.027*	*−0.54*	*−0.54*	*0*	---	*3½*
3	*Fn.*	*WI*		*+0.076*	*+0.39*	*+0.38*	*0*	---	*3*
4	*Wy.*	*WI*		*+0.003*	*+0.10*	*+0.15*	*0*	---	*3½*
8	*Fn.*	*EI*		*−0.032*	*+0.22*	*+0.24*	*0*	---	*3*
9	*An.*	*EI*		*+0.021*	----	----	*0*	---	*3½*
14	*An.*	*EI*		-----	*+0.27*	*+0.28*	*0*	---	*3½*
20	*Hd.*	*EI*		*−0.002*	*+0.57*	*+0.63*	*0*	---	*2*
21	*Wy.*	*EI*		*−0.035*	*+0.91*	*+0.93*	*0*	---	*3*
1914									
Sept. *22*	*An.*	*EI*		*−0.006*	*−0.25*	*−0.23*	*I*	---	*3½*
27	*Wy.*	*WI*		-----	*+0.18*	*+0.22*	*0*	---	*3½*
Oct. *12*	*An.*	*WI*		-----	*+0.57*	*+0.58*	*I*	---	*3½*
20	Hd.	EI		+0.023		----	I	3.9	2
1915									
Mar. 30	Fn.	EI		-----		+1.08	0	---	2½
Aug. *12*	*An.*	*EI*		*+0.001*	*+0.06*	*+0.12*	*0*	---	*3*
Sept. *7*	*Hd.*	*WI*		*−0.001*	*−0.31*	*−0.28*	*0*	---	*3*
8	*Wy.*	*WI*		-----	*−0.64*	*−0.64*	*0*	---	*3*
9	*Hd.*	*WI*		*+0.009*	*−0.21*	*−0.22*	*0*	---	*3*
12	*Hd.*	*EI*		*+0.046*	*+0.02*	*+0.04*	*0*	---	*2½*
13	*Wy.*	*EI*		*−0.021*	*+0.47*	*+0.47*	*0*	---	*3½*
15	*Wy.*	*EI*		*+0.009*	*+0.09*	*+0.11*	*0*	---	*3*
16	*Hd.*	*EI*		-----	*+0.08*	*+0.08*	*0*	---	*3*
21	*Hd.*	*EI*		*+0.039*	*+0.18*	*+0.20*	*0*	---	*2½*
24	*Wy.*	*EI*		*+0.027*	*+0.89*	*+0.91*	*0*	---	*3*
Oct. *3*	*Wy.*	*WI*		*−0.019*	*−0.67*	*−0.64*	*0*	---	*3*
21	Fn.	WI		+0.011		−0.41	I	3.9	3½
Nov. 10	Hd.	WI		−0.008		----	I	2.9	2
17	Fn.	WI		+0.016		----	I	2.9	2
24	Wy.	EI		0.000		----	I	2.9	2½
27	Wy.	EI		+0.022		----	I	2.9	2½
30	Hd.	EI		−0.004		−0.31	I	3.4	3
Dec. 2	Hd.	EI		+0.019		+0.15	I	2.9	2
4	Fn.	EI		−0.002		+0.15	I	3.4	2
6	Hd.	WI		+0.012		----	I	2.9	2
8	Wy.	WI		−0.016		+0.07	I	3.4	3
9	Fn.	WI		+0.026		+0.31	I	2.9	2
21	Hd.	WI		+0.007		−0.20	I	---	2
22	Fn.	WI		+0.030		−0.20	I	2.9	3
1916									
Jan. 3	Wy.	EI		−0.011		−0.42	I	3.4	2½
Feb. 3	Hd.	EI		−0.013		−0.08	I	2.9	2½
16	Wy.	WI		+0.010		−0.09	I	---	3½
Sept. *19*	*Wy.*	*EI*		*−0.023*	*+0.19*	*+0.19*	*0*	---	*3*
24	*Wy.*	*EI*		*−0.046*	*+0.32*	*+0.33*	*0*	---	*3½*
25	*Hd.*	*EI*		*+0.004*	*+0.24*	*+0.23*	*0*	---	*3*
Oct. *10*	*Fn.*	*WI*		*+0.039*	*−1.21*	*−1.19*	*I*	---	*3*
1917									
Mar. 9	Fn.	WI		−0.040		+0.03	I	---	--
20	Hd.	EI		+0.005		+0.28	0	---	3
22	Fn.	EI		+0.008		+0.84	I	3.4	2½
28	Hd.	WI		+0.025		----	II	3.1	2
29	Wy.	WI		−0.005		+0.25	I	3.9	3
30	Fn.	WI		+0.038		−0.35	I	2.9	2½
Apr. *3*	*Hd.*	*WI*		*+0.022*	*+0.29*	*+0.29*	*I*	---	*2*
May *1*	*Fn.*	*EI*		*−0.037*	*−0.75*	*−0.68*	*0*	---	*3½*
Aug. *24*	*Wy.*	*EII*		*+0.026*	*+1.17*	*+1.22*	*0*	---	*3½*
Sept. *12*	*Hd.*	*EII*		*+0.030*	*−0.64*	*−0.64*	*0*	---	*3*
16	*Hd.*	*EII*		*−0.005*	*−0.22*	*−0.19*	*0*	---	*3*
17	*Wy.*	*EII*		*+0.014*	*−0.07*	*−0.05*	*0*	---	*3½*
30	*Hd.*	*WII*		*+0.021*	*−0.11*	*−0.11*	*0*	---	*3½*
Oct. *1*	*Fn.*	*WII*		*−0.026*	*+0.38*	*+0.41*	*0*	---	*3*
1918									
Feb. 11	Wy.	WII		+0.021		−0.72	I	3.4	3
28	Wy.	EII		−0.011		−0.04	0	---	3½
Mar. 5	Hd.	EII		+0.036		+0.34	I	3.9	2
8	Wy.	EII		−0.014		+0.15	I	4.4	2½
25	Fn.	WII		−0.029		−0.63	I	2.9	2½
Mean		1914.47		+0.004		+0.07			
		1914.58							
Corr				−0.081		−0.20			

Paris 9170

h m s 7 23 ° ′ ″ −22 54 17.27

				s	″	″			
1913									
Feb. 12	Fn.	WII		-----		16.27	0	6.5	2½
13	R.	WII		10.559		16.03	0	---	--
14	Fn.	WII		10.544		16.81	0	6.0	3
15	Hd.	WII		10.502		15.10	0	6.0	3½
18	Hd.	EII		10.462		15.58	0	6.0	2
19	Fn.	EII		10.449		15.75	0	6.6	3
Dec. 13	R.	EI		10.592		16.16	0	---	5
19	Fn.	WI		10.542		15.41	0	6.0	--
26	Fn.	WI		10.507		16.80	0	6.5	3½

			h m s	° ′ ″			
1914							
Jan. 8	Hd.	EI	10.520	15.81	0	---	3
Mean	1913.51		7 23 10.520	−22 54 16.07			
	1913.47						
Corr			−0.081	−0.05			

γ Canis Minoris

			h m s	° ′ ″			
1912							
Jan. 16	R.	WII	7 23 15.816	+9 6 29.98	I	3.9	2
19	Fn.	WII	15.836	30.74	0	4.9	2
24	R.	EII	15.812	30.87	I	4.4	2
27	R.	EII	15.803	30.03	I	4.4	1½
1915							
Oct. 27	Fn.	WI	15.819	29.93	I	4.4	2½
Nov. 1	Hd.	EI	15.798	29.82	0	---	3½
5	Fn.	EI	15.794	30.75	0	5.0	2½
9	Wy.	WI	15.794	30.38	I	3.9	2
Mean	1913.95		7 23 15.809	+9 6 30.31			
Corr			−0.081	−0.21			

ρ Geminorum

			h m s	° ′ ″			
			7 23 19.533	+31 57 52.38			
1913							
Feb. 4	Hd.	WII	+0.029	−1.50	I	4.4	3
6	R.	WII	−0.002	−0.78	I	4.4	1½
17	Fn.	EII	+0.012	−1.53	0	5.0	2½
25	Hd.	EII	+0.008	−0.90	I	3.9	2
Dec. 11	Hd.	EI	−0.010	−1.14	I	4.4	2
12	Fn.	EI	−0.012	−1.21	0	4.5	3½
18	Hd.	WI	+0.018	−0.33	I	4.4	2
20	R.	WI	+0.040	−0.62	I	4.4	1½
1916							
Feb. 7	Wy.	EI	+0.001	−0.55	I	4.4	3
1917							
Jan. 22	Wy.	EI	+0.059	----	0	---	3
25	Wy.	EI	+0.041	----	0	---	2
Mar. 19	Fn.	EI	+0.023	----	0	---	2
1918							
Mar. 15	Fn.	WII	−0.001	----	0	---	2
Apr. 5	Fn.	EII	+0.037	----	0	---	2
Mean	1915.16		+0.017	−0.95			
	1913.82						
Corr			−0.081	−0.25			

Bradley 1082

			h m s	° ′ ″			
1912							
Feb. 16	Hd.	EII	7 24 12.944	+28 6 8.72	0	---	2
17	R.	EII	12.922	9.24	0	5.5	3½
23	Hd.	WII	12.942	9.30	I	4.4	--
27	Hd.	WII	12.991	9.04	I	4.4	2
1915							
Nov. 17	Fn.	WI	12.938	8.71	0	5.0	2
24	Wy.	EI	12.957	8.39	I	4.9	2½
27	Wy.	EI	12.984	9.05	I	4.9	2
Dec. 6	Hd.	WI	12.937	7.98	0	5.5	2
Mean	1914.02		7 24 12.952	+28 6 8.80			
Corr			−0.081	−0.25			

6 Canis Minoris

			h m s	° ′ ″			
1912							
Dec. 28	R.	WII	7 24 47.308	+12 11 36.15	I	4.4	2½
30	Fn.	WII	47.278	35.82	0	5.0	2½
1913							
Jan. 19	R.	EII	47.270	36.04	I	4.9	2
28	R.	EII	47.282	35.82	I	4.9	2
Nov. 20	Hd.	WI	47.299	35.51	I	4.9	3
21	Fn.	WI	47.307	35.75	0	5.3	1½
Dec. 3	R.	EI	47.299	35.74	I	4.4	2½
5	R.	EI	47.290	35.46	I	4.4	2
Mean	1913.47		7 24 47.292	+12 11 35.79			
Corr			−0.081	−0.21			

B. D.+39° 1958

			h m	° ′ ″			
1917							
Mar. 6	Fn.	WI	7 25 -----	+39 5 10.01	0	7.0	2
8	Wy.	WI	-----	10.20	0	7.5	3½
12	Hd.	EI	-----	9.65	0	7.0	2
15	Wy.	EI	-----	9.62	0	7.0	2½
Mean	1917.19		7 25 -----	+39 5 9.87			
Corr			-----	−0.27			

σ Argûs

			h m	° ′ ″			
			7 26 -----	−43 7 6.30			
1917							
Mar. 19	Fn.	EI	-----	−3.0	0	---	3
20	Hd.	EI	-----	−4.0[1]	0	---	3½
22	Fn.	EI	-----	−0.2	0	---	3½
1918							
Mar. 8	Wy.	EII	-----	+0.1	0	---	4½
Mean	1917.46		-----	−1.78			
Corr			-----	+0.56			

Weisse$_1$ VII 733

			h m s	° ′ ″			
1912							
Jan. 20	R.	WII	7 26 24.625	−5 2 15.67	0	5.5	4
21	Hd.	WII	24.642	15.00	0	6.2	3½
Feb. 8	Fn.	EII	24.567	14.40	0	6.6	3
9	Hd.	EII	24.635	15.79	0	6.8	3
1915							
Oct. 23	Wy.	WI	24.617	14.97	0	6.5	3½
25	Wy.	WI	24.609	15.30	0	6.5	3
29	Hd.	EI	24.588	15.39	0	6.5	3½
30	Fn.	EI	24.621	14.91	0	7.0	3½
Mean	1913.95		7 26 24.613	−5 2 15.18			
Corr			−0.081	−0.16			

Pulkowa 1855, 1217

			h m s	° ′ ″			
1912							
Nov. 4	R.	WII	7 26 37.149	+17 16 40.14	0	5.5	2
22	Fn.	EII	37.155	40.96	0	6.5	1½
Dec. 9	Fn.	WII	37.189	40.89	0	6.4	2½
12	R.	EII	37.134	41.14	0	5.5	1½
1913							
Nov. 4	Fn.	EI	37.136	41.31	0	6.0	3
5	R.	EI	37.161	40.22	I	---	2
10	Hd.	WI	37.178	41.02	0	6.0	2½
17	Hd.	WI	37.158	40.80	I	5.4	2½
Mean	1913.38		7 26 37.158	+17 16 40.81			
Corr			−0.081	−0.22			

α^1 Geminorum

			h m s	° ′ ″			
			7 28 51.227	+32 5 8.39			
1912							
Feb. 2	Hd.	WII	+0.075	−0.37	I	2.9	--
13	Hd.	EII	+0.024	−0.77	I	2.9	2
14	R.	EII	+0.006	−0.41	II	2.6	1
22	R.	WII	−0.021	−0.48	I	---	--
1915							
Oct. 27	Fn.	WI	+0.034	−0.84	I	2.9	2
Nov. 1	Hd.	EI	+0.049	−0.39	I	3.4	3½
5	Fn.	EI	+0.043	−0.63	I	2.9	2½
9	Wy.	WI	+0.033	−0.41	II	2.6	2
Mean	1913.98		+0.030	−0.54			
Corr			−0.081	−0.25			

[1] Microscopes read on one set of divisions only.

α^2 Geminorum

			h m s	° ′ ″				
			7 28 51.480	+32 5 12.33				
			s	″	″			
1912								
Dec. 13	Fn.	EII	−0.018		−1.46	II	2.1	2
16	Fn.	EII	−0.016		−0.85	II	1.8	1½
22	R.	WII	+0.028		+0.38	II	2.6	2
27	Fn.	WII	+0.008		−0.18	I	1.9	3
1913								
Dec. 11	Hd.	EI	+0.013		−0.44	II	2.6	2
12	Fn.	EI	−0.033		−1.46	I	2.4	3½
18	Hd.	WI	+0.026		−0.14	II	2.6	2
19	Fn.	WI	+0.008		+0.33	I	1.9	2
1916								
Feb. 7	Wy.	EI	+0.067		−0.09	II	2.6	3
June 1	*Fn.*	*EI*	*−0.058*	*−1.58*	*−1.56*	*0*	---	*3½*
2	*Hd.*	*EI*	*+0.014*	*−1.19*	*−1.19*	*0*	---	*3*
23	*Hd.*	*WI*	*+0.021*	*−1.05*	*−1.02*	*0*	---	*3*
Aug. 17	*Wy.*	*EI*	*+0.015*	*−1.19*	*−1.17*	*0*	---	*3½*
20	*Wy.*	*EI*	*+0.036*	*−0.99*	*−0.97*	*0*	---	*3½*
24	*Fn.*	*WI*	*+0.029*	*−1.41*	*−1.40*	*0*	---	*3½*
Sept. 7	*Wy.*	*WI*	*+0.060*	*−0.68*	*−0.67*	*0*	---	*3½*
10	*Hd.*	*WI*	*+0.079*	*−0.92*	*−0.92*	*0*	---	*3*
19	*Wy.*	*EI*	*−0.001*	*−0.50*	*−0.50*	*0*	---	*3*
24	*Wy.*	*EI*	*+0.023*	*−0.27*	*−0.27*	*0*	---	*3*
25	*Hd.*	*EI*	*+0.020*	*−0.92*	*−0.92*	*I*	---	*2½*
Oct. 1	*Wy.*	*WI*	*+0.107*	*−0.37*	*−0.36*	*0*	---	*3½*
10	*Fn.*	*WI*	*+0.025*	----	----	*I*	---	*3*
1917								
Jan. 25	Wy.	EI	+0.082		----	I	---	2
Mar. 9	Fn.	WI	+0.010		−0.62	I	1.9	2
20	Hd.	EI	+0.014		−0.58	I	---	3
25	Hd.	WI	+0.027		----	II	2.6	2
28	Hd.	WI	+0.018		----	II	2.1	2
30	Fn.	WI	+0.037		−1.29	I	---	3
Apr. 3	Hd.	WI	+0.029		−0.22	II	2.6	2
May 1	*Fn.*	*EI*	*−0.003*	*−1.47*	*−1.45*	*0*	---	*3½*
10	*Fn.*	*WI*	*+0.021*	*−1.31*	*−1.30*	*0*	---	*3½*
18	*Hd.*	*WI*	*+0.048*	*−0.94*	*−0.93*	*0*	---	*3*
June 4	*Wy.*	*WI*	*+0.054*	*−2.01*	*−1.97*	*0*	---	*4*
25	*Wy.*	*WII*	*−0.024*	*−1.44*	*−1.42*	*0*	---	*4*
July 29	*Wy.*	*EII*	*−0.034*	*−2.03*	*−1.99*	*0*	---	*4*
30	*Fn.*	*EII*	*+0.045*	*−0.69*	*−0.67*	*0*	---	*3½*
Aug. 2	*Fn.*	*WII*	*+0.035*	*−0.62*	*−0.60*	*0*	---	*3½*
5	*Hd.*	*WII*	*+0.023*	*−0.69*	*−0.69*	*0*	---	*3½*
9	*Wy.*	*WII*	*+0.013*	*−0.75*	*−0.71*	*0*	---	*4*
16	*Wy.*	*WII*	*+0.023*	*−0.51*	*−0.50*	*0*	---	*3½*
20	*Wy.*	*WII*	*+0.075*	*−1.76*	*−1.75*	*0*	---	*3½*
24	*Wy.*	*EII*	*+0.036*	*−0.85*	*−0.84*	*0*	---	*3½*
Sept. 3	*Fn.*	*EII*	*+0.118*	*−0.20*	*−0.19*	*0*	---	*3½*
6	*Hd.*	*EII*	*+0.009*	*−1.37*	*−1.36*	*0*	---	*3½*
10	*Fn.*	*EII*	*+0.039*	*−1.25*	*−1.24*	*0*	---	*3*
12	*Hd.*	*EII*	*+0.026*	*−0.69*	*−0.69*	*0*	---	*3½*
16	*Hd.*	*EII*	*+0.034*	*−0.32*	*−0.32*	*I*	---	*3*
17	*Wy.*	*EII*	*+0.051*	*−0.68*	*−0.68*	*I*	---	*3½*
30	*Hd.*	*WII*	*+0.037*	*−0.34*	*−0.34*	*I*	---	*3*
Oct. 1	*Fn.*	*WII*	*−0.006*	*−0.40*	*−0.39*	*I*	---	*3*
1918								
Feb. 11	Wy.	WII	+0.054		−0.09	I	2.4	3½
28	Wy.	EII	+0.029		−0.89	I	2.9	4
Mar. 5	Hd.	EII	+0.040		−0.44	I	2.9	3
8	Wy.	EII	+0.044		−0.36	I	---	2
15	Fn.	WII	−0.003		−0.32	I	1.9	2
25	Fn.	WII	+0.006		−0.74	I	1.9	2½
Apr. 2	Fn.	EII	+0.016		−1.09	I	1.9	3
June 19	*Wy.*	*WII*	*+0.072*	*−1.44*	*−1.40*	*0*	---	*4*
Aug. 14	*Fn.*	*WII*	*+0.041*	*−0.31*	*−0.29*	*0*	---	*3½*
Mean------	1916.16		+0.021		−0.53			
	1916.00							
Corr----------			−0.081		−0.25			

Radcliffe 1845, 1986

			h m s	° ′ ″				
1912								
Dec. 19	R.	EII	7 29 59.736	+46 22 46.25		0	6.0	2
21	R.	EII	59.826		46.12	0	6.5	2
28	R.	WII	59.827		45.70	0	5.5	2½
1912								
Dec. 30	Fn.	WII	59.796		46.23	D	6.0	3
1913								
Nov. 20	Hd.	WI	59.802		45.48	0	6.0	2½
21	Fn.	WI	59.788		45.87	0	6.0	1½
Dec. 3	R.	EI	59.775		45.30	0	5.5	2
5	R.	EI	59.773		45.03	0	5.5	2½
Mean------	1913.44		7 29 59.790	+46 22 45.75				
Corr----------			−0.081		−0.28			

Weisse$_1$ VII 901

			h m s	° ′ ″				
1912								
Jan. 16	R.	WII	7 31 55.738	−8 6 41.69		0	6.0	3
19	Fn.	WII	55.790		41.45	0	6.5	2½
Feb. 8	Fn.	EII	55.762		40.81	0	6.6	3
9	Hd.	EII	55.797		40.80	0	6.2	3
1915								
Nov. 16	Hd.	WI	55.789		41.86	0	6.5	3
17	Fn.	WI	55.820		41.57	0	6.5	3
24	Wy.	EI	55.753		41.22	0	6.5	3
27	Wy.	EI	55.769		41.43	0	6.5	3
Mean------	1913.98		7 31 55.777	−8 6 41.35				
Corr----------			−0.081		−0.15			

Groombridge 1336

			h m s	° ′ ″				
1912								
Jan. 20	R.	WII	7 32 4.589	+54 6 21.21		0	7.0	1½
21	Hd.	WII	4.585		20.42	0	7.0	3
24	R.	EII	4.663		21.28	0	7.0	1½
27	R.	EII	4.599		20.38	0	7.5	2
1915								
Oct. 23	Wy.	WI	4.634		20.43	0	7.0	2½
25	Wy.	WI	4.616		20.82	0	7.0	3
29	Hd.	EI	4.635		20.27	0	7.0	3½
30	Fn.	EI	4.670		19.99	0	6.5	2½
Mean------	1913.94		7 32 4.624	+54 6 20.60				
Corr----------			−0.081		−0.30			

B. D.+33° 1560

			h m s	° ′ ″				
1912								
Nov. 4	R.	WII	7 32 31.923	+33 23 23.77		0	7.0	2
16	R.	EII	------		24.22	0	7.0	1½
22	Fn.	EII	31 992		23.95	0	6.8	1½
Dec. 9	Fn.	WII	31.959		24.29	0	7.4	2½
12	R.	EII	31.941		-----	0	7.0	1
1913								
Nov. 4	Fn.	EI	31.934		24.23	0	6.7	2
5	R.	EI	31.939		24.34	0	6.0	2
10	Hd.	WI	31.963		24.04	0	6.5	2
17	Hd.	WI	31.924		23.99	D	7.0	2
Mean------	1913.38		7 32 31.947	+33 23 24.10				
	1913.37							
Corr----------			−0.081		−0.26			

Paris 9396

			h m s	° ′ ″				
1912								
Feb. 17	R.	EII	7 32 43.747	−19 30 3.99		0	7.0	3
23	Hd.	WII	43.710		4.22	0	6.0	--
27	Hd.	WII	43.683		4.35	0	6.0	3½
Mar. 13	Fn.	EII	43.762		4.11	0	6.6	2½
1915								
Nov. 10	Hd.	WI	43.749		5.68	0	6.0	3
15	Wy.	WI	43.815		4.70	0	6.5	3
22	Hd.	EI	43.726		5.24	0	6.5	3
30	Hd.	EI	43.720		4.59	D	6.0	3
Mean------	1914.02		7 32 43.739	−19 30 4.61				
Corr----------			−0.081		−0.08			

Weisse[1] VII 907

				h m s	° ′ ″			
1912								
Dec. 13	Fn.	EII	7 32	46.418	+14 14 48.09	0	6.9	1½
16	Fn.	EII		46.397	47.91	0	6.4	2
1913								
Jan. 9	R.	WII		46.397	47.51	0	7.0	1½
14	R.	WII		46.414	47.83	0	7.0	1
Nov. 22	R.	WI		46.442	48.16	0	6.0	1½
24	Hd.	WI		46.434	48.48	0	7.0	2
Dec. 8	Hd.	EI		46.421	48.18	0	7.0	3
9	Fn.	EI		46.451	48.36	0	7.0	2
Mean	1913.46		7 32	46.422	+14 14 48.06			
Corr				−0.081	−0.22			

25 Monocerotis

				h m s	° ′ ″			
			7 32	48.163	−3 54 33.64			
1912								
Feb. 28	R.	WII		+0.043	−1.03	0	5.5	3
Mar. 1	Hd.	WII		+0.087	−0.71	0	5.5	--
9	R.	EII		+0.063	+0.18	0	5.5	4
10	Fn.	EII		+0.033	−0.05	0	5.4	2
1915								
Feb. 17	Fn.–Wy.	EI		-----	−1.34	0	---	2½ R.
18	Hd.–An.	EI		-----	−1.57	0	---	3 R.
19	Fn.–Wy.	EI		-----	−0.85	0	5.0	2½
19	Fn.–Wy.	EI		-----	−0.55	0	5.0	2½
20	An.–Hd.	WI		-----	−2.59	0	---	2 R.
21	An.–Hd.	WI		-----	−0.76	0	6.0	3
22	Wy.–Fn.	WI		-----	−0.71	0	---	3 R.
Mar. 1	Wy.–Fn.	WI		-----	−1.19	0	6.0	3
Dec. 2	Hd.	EI		+0.053	−0.43	0	5.5	3
4	Fn.	EI		+0.082	+0.05	0	5.0	2½
6	Hd.	WI		+0.104	−1.31	0	5.5	3
8	Wy.	WI		+0.023	−1.61	0	5.5	3
Mean	1914.05			+0.061	−0.69			
	1914.42							
Corr				−0.081	−0.16			

o Geminorum

				h m s	° ′ ″			
1916								
Feb. 7	Wy.	EI	7 33	17.643	+34 47 28.89	I	4.9	3
1917								
Jan. 22	Wy.	EI		17.598	-----	0	---	3
25	Wy.	EI		17.632	-----	0	---	2
Mar. 8	Wy.	WI		17.599	-----	0	5.0	3½
12	Hd.	EI		17.555	-----	I	4.4	2
15	Wy.	EI		17.594	-----	0	5.0	2½
19	Fn.	EI		17.598	-----	0	5.0	1½
25	Hd.	WI		17.612	-----	I	4.9	2
28	Hd.	WI		17.566	-----	I	4.4	2
Apr. 3	Hd.	WI		17.614	-----	I	4.4	2
1918								
Feb. 11	Wy.	WII		17.572	-----	0	5.0	3½
Mar. 8	Wy.	EII		17.604	-----	0	---	2
15	Fn.	WII		17.580	-----	0	5.0	2
18	Wy.	WII		17.588	-----	0	5.0	2½
Apr. 2	Fn.	EII		17.628	-----	0	---	3
5	*Fn.*	*EII*		*17.587*	-----	*0*	---	*2*
Mean	1917.45		7 33	17.599	+34 47 28.89			
	1916.10							
Corr				−0.081	−0.26			

Bradley 1093

				h m s	° ′ ″			
1913								
Jan. 18	R.	EII	7 33	23.162	+57 17 21.73	0	5.5	2½
19	R.	EII		23.144	21.05	0	6.5	2
Feb. 4	Hd.	WII		23.131	20.67	0	6.0	3
6	R.	WII		23.154	20.65	0	6.0	2
Dec. 20	R.	WI		23.093	21.08	0	6.0	2
26	Fn.	WI		23.172	20.83	0	6.5	2
1914								
Jan. 5	Hd.	EI		23.149	20.18	0	6.0	2
9	R.	EI		23.054	20.93	0	6.0	2½
Mean	1913.54		7 33	23.132	+57 17 20.89			
Corr				−0.081	−0.31			

α Canis Minoris

				h m s	° ′ ″			
			7 34	35.191[1]	+5 27 15.72[1]			
				s	″	″		
1913								
Feb. 7	Fn.	WII		+0.025	+0.25	II	0.5	3½
12	Fn.	WII		+0.071	+0.51	II	1.1	1½
13	R.	WII		+0.080	+0.06	II	1.1	2½
17	Fn.	EII		+0.025	−0.12	II	1.6	3
18	Hd.	EII		+0.031	+0.32	II	0.9	2
Dec. 13	R.	EI		+0.038	+0.43	II	---	5
18	Hd.	WI		+0.076	+0.65	II	1.1	3
19	Fn.	WI		+0.074	+0.73	II	0.6	2
1914								
Jan. 8	Hd.	EI		+0.065	+0.23	II	---	3
1916								
June 1	*Fn.*	*EI*		*[−0.151][2]*	*+0.39*	*+0.49*	*0*	--- *3*
2	*Hd.*	*EI*		*+0.049*	*−0.87*	*−0.88*	*0*	--- *3*
8	*Hd.*	*EI*		*+0.087*	*−0.19*	*+0.01*	*0*	--- *4*
12	*Wy.*	*EI*		*+0.087*	*−0.01*	*+0.19*	*0*	--- *4*
23	*Hd.*	*WI*		*+0.048*	*−1.17*	*−1.07*	*0*	--- *3*
26	*Hd.*	*WI*		*+0.053*	*−0.16*	*+0.02*	*0*	--- *3½*
July 6	*Wy.*	*EI*		-----	*−0.84*	*−0.64*	*0*	--- *4*
19	*Hd.*	*EI*		*+0.108*	*−0.90*	*−0.79*	*0*	--- *3*
Aug. 16	*Fn.*	*EI*		*+0.100*	*+0.33*	*+0.49*	*0*	--- *3½*
17	*Wy.*	*EI*		*+0.189*	*−0.41*	*−0.33*	*0*	--- *5*
20	*Wy.*	*EI*		*−0.003*	*+0.20*	*+0.29*	*0*	--- *3½*
21	*Fn.*	*EI*		*+0.074*	*+0.21*	*+0.36*	*0*	--- *3½*
24	*Fn.*	*WI*		*+0.048*	*+0.01*	*+0.08*	*0*	--- *3½*
31	*Fn.*	*WI*		*+0.056*	----	----	*0*	--- *3½*
Sept. 7	*Wy.*	*WI*		*+0.076*	*−0.14*	*−0.09*	*0*	--- *3½*
10	*Hd.*	*WI*		*+0.090*	*−0.35*	*−0.34*	*I*	--- *3½*
19	*Wy.*	*EI*		*0.000*	*+0.05*	*+0.08*	*II*	--- *3*
24	*Wy.*	*EI*		*+0.034*	*+0.25*	*+0.26*	*I*	--- *3½*
25	*Hd.*	*EI*		*+0.031*	*−0.25*	*−0.25*	*II*	--- *2*
Oct. 1	*Wy.*	*WI*		*+0.068*	*−0.38*	*−0.35*	*I*	--- *3½*
1917								
Mar. 6	Fn.	WI		+0.064	+0.28	II	1.1	1½
9	Fn.	WI		+0.070	+0.06	II	1.1	2
12	Hd.	EI		+0.057	−0.09	II	1.1	2½
20	Hd.	EI		+0.073	+0.33	I	---	3
22	Fn.	EI		+0.058	+0.75	II	1.1	2
25	Hd.	WI		+0.101	----	III	1.0	2
28	Hd.	WI		+0.066	----	II	1.1	2
30	Fn.	WI		+0.086	−0.29	II	1.1	3
Apr. 3	Hd.	WI		+0.077	+1.15	III	0.0	2
9	*Hd.*	*WI*		*+0.043*	*−0.30*	*−0.28*	*II*	--- *3*
10	*Fn.*	*WI*		*+0.054*	*−0.03*	*−0.06*	*I*	--- *2½*
May 1	*Fn.*	*EI*		*+0.028*	*−0.06*	*+0.04*	*0*	--- *3½*
10	*Fn.*	*WI*		*+0.069*	*−0.36*	*−0.29*	*0*	--- *3½*
14	*Wy.*	*WI*		*+0.078*	*−0.56*	*−0.50*	*I*	--- *3*
15	*Hd.*	*WI*		*+0.056*	*−0.47*	*−0.46*	*0*	--- *3*
18	*Hd.*	*WI*		*+0.066*	*−0.41*	*−0.37*	*0*	--- *3*
June 4	*Wy.*	*WI*		*+0.076*	*−0.59*	*−0.41*	*0*	--- *4*
22	*Fn.*	*WII*		*+0.076*	*−0.91*	*−0.69*	*0*	--- *3½*
25	*Wy.*	*WII*		*+0.002*	*−0.40*	*−0.27*	*0*	--- *4½*
July 2	*Hd.*	*EII*		-----	*−0.20*	*0.00*	*0*	--- *3½*
16	*Wy.*	*EII*		-----	*+0.30*	*+0.44*	*0*	--- *3½*
29	*Wy.*	*EII*		*+0.018*	*+0.05*	*+0.29*	*0*	--- *4*
30	*Fn.*	*EII*		*+0.002*	*+0.11*	*+0.24*	*0*	--- *3½*
Aug. 2	*Fn.*	*WII*		*+0.002*	*+0.22*	*+0.33*	*0*	--- *3½*
5	*Hd.*	*WII*		*+0.099*	*−0.16*	*−0.14*	*0*	--- *3½*
9	*Wy.*	*WII*		*−0.016*	*−0.30*	*−0.05*	*0*	--- *3½*
12	*Fn.*	*WII*		*+0.081*	*−0.02*	*+0.08*	*0*	--- *3½*
16	*Wy.*	*WII*		*+0.049*	*+0.05*	*+0.06*	*0*	--- *4*
19	*Fn.*	*WII*		*+0.033*	*+0.10*	*+0.19*	*0*	--- *3½*
20	*Wy.*	*WII*		*+0.105*	*+0.12*	*+0.19*	*0*	--- *3½*
24	*Wy.*	*EII*		*+0.071*	*+0.68*	*+0.75*	*I*	--- *3½*
Sept. 3	*Fn.*	*EII*		*+0.033*	*+0.96*	*+1.05*	*0*	--- *3½*
6	*Hd.*	*EII*		*+0.027*	*+0.37*	*+0.44*	*0*	--- *3½*
10	*Fn.*	*EII*		*+0.039*	*+0.27*	*+0.32*	*I*	--- *3*

[1] Center of orbit.

[2] Transit observed over one group only.

			s	"	"			
1917								
Sept. 12	*Hd.*	*EII*	*+0.104*	*+0.28*	*+0.28*	*I*	---	*3½*
16	*Hd.*	*EII*	*+0.052*	*+0.32*	*+0.35*	*I*	---	*3*
17	*Wy.*	*EII*	*+0.031*	*+0.41*	*+0.43*	*I*	---	*3½*
19	*Hd.*	*WII*	*+0.044*	*+0.66*	*+0.66*	*I*	---	*3*
30	*Hd.*	*WII*	*+0.049*	*+0.41*	*+0.42*	*II*	---	*3½*
Oct. 1	*Fn.*	*WII*	*+0.047*	*+0.68*	*+0.73*	*II*	---	*3*
1918								
Feb. 11	Wy.	WII	+0.074		−0.47	II	2.1	3
28	Wy.	EII	+0.059		+0.59	I	---	3½
Mar. 5	Hd.	EII	+0.053		+0.88	II	2.1	2
8	Wy.	EII	+0.053		+1.03	0	---	3
15	Fn.	WII	+0.034		−0.40	II	1.6	2½
18	Wy.	WII	+0.064		+0.16	II	1.6	2½
25	Fn.	WII	+0.086		−0.27	I	1.4	3
June 19	*Wy.*	*WII*	*+0.042*	*+0.44*	*+0.61*	*0*	---	*3½*
July 9	*Hd.*	*EII*	*+0.033*	*+0.86*	*+1.02*	*0*	---	*4*
24	*Fn.*	*EII*	*−0.025*	*−0.01*	*+0.13*	*0*	---	*3½*
29	*Fn.*	*WII*	-----	*+0.12*	*+0.39*	*0*	---	*3½*
31	*Fn.*	*WII*	*+0.062*	*+0.25*	*+0.48*	*0*	---	*3½*
Aug. 11	*Fn.*	*WII*	*+0.052*	*+0.72*	*+0.88*	*0*	---	*3½*
14	*Fn.*	*WII*	*+0.052*	*+0.20*	*+0.30*	*0*	---	*3½*
Mean------	1916.15		+0.060		+0.29			
	1916.06							
Corr------			−0.081		−0.19			

24 Lyncis

	h	m	s	°	′	″
	7	35	23.900	+58	55	18.53

1912								
Feb. 2	Hd.	WII	−0.076		+0.41	I	4.4	--
13	Hd.	EII	+0.029		+0.51	I	4.4	--
14	R.	EII	−0.080		+0.69	0	5.5	1
22	R.	WII	−0.071		+1.72	0	---	3
1915								
Oct. 27	Fn.	WI	−0.011		+1.17	0	5.0	2
Nov. 1	Hd.	EI	−0.014		+0.22	0	6.0	3½
5	Fn.	EI	−0.031		+0.19	0	5.0	2½
9	Wy.	WI	−0.013		+0.34	I	4.4	2
1916								
Mar. 23	Hd.–Wy.	WI	-----		+0.44	0	---	2 R.
24	Hd.–Wy.	WI	-----		+0.51	0	6.0	3
31	Hd.–Wy.	EI	-----		+0.90	0	---	2 R.
Apr. 10	Hd.–Wy.	EI	-----		+0.56	0	---	2
Mean------	1913.98		−0.033		+0.63			
	1914.43							
Corr------			−0.081		−0.32			

Weisse$_2$ VII 955

			h	m	s	°	′	″			
1912											
Mar. 2	R.	WII	7	35	35.302	+23	13	37.19	0	6.5	1
7	Fn.	WII			35.310			38.29	0	5.8	2
16	Fn.	EII			35.250			37.15	0	6.0	1½
17	R.	EII			35.305			38.21	0	6.0	2
1915											
Nov. 16	Hd.	WI			35.300			37.79	0	6.0	2
17	Fn.	WI			35.247			37.41	0	6.0	2
24	Wy.	EI			35.282			37.37	0	6.0	2½
27	Wy.	EI			35.289			37.90	0	6.0	2
Mean------	1914.04		7	35	35.286	+23	13	37.66			
Corr------					−0.081			−0.24			

Bradley 1098

			h	m	s	°	′	″			
1912											
Dec. 30	Fn.	WII	7	38	4.35	+65	40	18.42	0	6.5	3
1913											
Jan. 9	R.	WII			4.37			18.85	0	6.0	1½
18	R.	EII			4.39			19.05	0	6.0	2½
19	R.	EII			4.46			18.08	0	---	2
Nov. 20	Hd.	WI			4.45			17.97	0	6.0	2
21	Fn.	WI			4.43			18.25	0	6.5	1½
Dec. 3	R.	EI			4.45			17.84	0	---	2
5	R.	EI			4.37			17.42	0	6.0	2
Mean------	1913.47		7	38	4.409	+65	40	18.24			
Corr------					−0.081			−0.33			

Bradley 1100

			h	m	s	°	′	″			
1912											
Jan. 16	R.	WII	7	38	19.01	+63	2	54.95	0	7.0	2
19	Fn.	WII			18.91			56.14	0	6.8	2
24	R.	EII			19.03			55.36	0	7.0	1½
27	R.	EII			18.98			54.61	0	7.0	2
1915											
Oct. 23	Wy.	WI			19.00			54.41	0	6.5	2½
25	Wy.	WI			19.08			54.56	0	7.0	3
29	Hd.	EI			19.02			54.97	0	7.0	3½
30	Fn.	EI			18.98			55.01	0	6.5	2½
Mean------	1913.94		7	38	19.001	+63	2	55.00			
Corr------					−0.081			−0.33			

Weisse$_1$ VII 1095

			h	m	s	°	′	″			
1912											
Nov. 4	R.	WII	7	38	28.339	+0	24	9.85	0	6.0	2½
16	R.	EII			-----			10.95	0	7.0	2
Dec. 9	Fn.	WII			28.268			11.20	0	6.6	2½
12	R.	EII			28.249			11.07	0	6.0	1½
19	R.	EII			28.323			-----	0	---	--
1913											
Nov. 4	Fn.	EI			28.289			11.37	0	6.0	3
5	R.	EI			28.266			10.55	0	5.5	1½
10	Hd.	WI			28.270			10.38	0	---	2
17	Hd.	WI			28.237			10.48	0	6.5	3
Mean------	1913.39		7	38	28.280	+0	24	10.73			
	1913.38										
Corr------					−0.081			−0.18			

Weisse$_2$ VII 1029

			h	m	s	°	′	″			
1913											
Jan. 14	R.	WII	7	38	49.309	+39	47	18.38	0	7.0	1
Feb. 4	Hd.	WII			49.318			17.81	0	6.5	2
28	Fn.	EII			49.368			18.67	0	7.0	3
Mar. 5	Fn.	EII			49.333			18.21	0	7.0	2
Nov. 22	R.	WI			49.346			18.08	0	6.0	2
Dec. 8	Hd.	EI			49.308			17.93	0	6.5	3
9	Fn.	EI			49.308			-----	0	7.0	2
11	Hd.	EI			49.300			17.48	0	6.5	2
20	R.	WI			49.341			17.31	0	7.0	2
Mean------	1913.57		7	38	49.326	+39	47	17.98			
	1913.53										
Corr------					−0.081			−0.27			

κ Geminorum[1]

	h	m	s	°	′	″
	7	39	0.982	+24	36	51.75

1912								
Jan. 20	R.	WII	−0.035		+0.05	I	3.4	1
21	Hd.	WII	−0.009		+0.33	I	3.1	--
Feb. 8	Fn.	EII	−0.053		+0.21	I	3.3	--
9	Hd.	EII	−0.018		−0.58	I	3.4	--
1915								
Nov. 10	Hd.	WI	−0.037		+0.12	I	3.4	2
15	Wy.	WI	−0.014		+1.08	I	3.4	2½
22	Hd.	EI	−0.013		+0.60	I	3.4	2
24	Wy.	EI	+0.006		+0.48	I	3.4	2½
Mean------	1913.98		−0.022		+0.29			
Corr------			−0.081		−0.24			

β Geminorum

	h	m	s	°	′	″
	7	39	48.416	+28	14	39.06

1911								
Aug. 15	*Fn.*	*EII*	*+0.084*	*−0.33*	*−0.32*	*0*	---	*2½*
18	*R.*	*EII*	*+0.029*	*−0.20*	*−0.19*	*0*	---	--
20	*Fn.*	*EII*	*+0.074*	*−0.09*	*−0.07*	*0*	---	--
23	*R.*	*WII*	-----	*+0.06*	*+0.08*	*0*	---	--

[1] Double; n. fol. component observed.

				s	″	″				
1911										
Sept.	*1*	*R.*	*WII*	*+0.079*	*−1.56*	*−1.55*	*0*	---	--	
Oct.	*4*	*Hd.*	*EII*	*+0.036*	*−0.20*	*−0.19*	*I*	---	*2½*	
	5	*Hd.*	*EII*	*+0.022*	*+0.23*	*+0.24*	*I*	---	*2*	
	12	*Fn.*	*WII*	*+0.001*	*+0.93*	*+0.93*	*I*	---	*3*	
	13	*Fn.*	*WII*	-----	*−0.04*	*−0.04*	*0*	---	*1*	
1912										
Jan.	9	R.	EII	+0.038		----	II	1.1	2½	
Feb.	28	R.	WII	+0.047		----	II	1.6	1½	
Mar.	1	Hd.	WII	+0.045		+0.38	II	1.1	--	
	2	R.	WII	+0.034		+0.03	II	2.6	1	
	5	Hd.	WII	+0.026		+0.59	0	---	2	
	10	Fn.	EII	−0.008		+0.10	II	1.1	2	
	13	Fn.	EII	+0.020		+0.53	II	1.6	2	
	17	R.	EII	+0.048		+0.27	II	1.1	2½	
	19	Hd.	EII	+0.029		----	I	---	2	
	22	Hd.	EII	+0.010		+0.36	II	1.1	2	
	25	Fn.	WII	+0.042		−0.21	II	1.5	2	
	26	Hd.	WII	+0.031		+0.17	II	1.1	2	
	29	Hd.	WII	-----		+0.45	II	1.1	3	
	30	R.	WII	+0.039		+0.19	II	---	1	
	31	Hd.	WII	+0.025		+0.03	II	1.1	2	
Aug.	*12*	*R.*	*EII*	-----	*−0.36*	*−0.35*	*0*	---	*4*	
	16	*R.*	*WII*	-----	*−0.33*	*−0.33*	*0*	---	--	
	18	*Fn.*	*WII*	-----	*+0.03*	*+0.06*	*0*	---	*3½*	
	20	*Fn.*	*WII*	-----	*−0.34*	*−0.32*	*0*	---	*3½*	
	23	*R.*	*WII*	*+0.044*	*−0.25*	*−0.25*	*0*	---	*5*	
	29	*Fn.*	*WII*	*+0.032*	*−0.11*	*−0.10*	*0*	---	*3½*	
Sept.	*5*	*Hd.*	*EII*	*+0.070*	*−0.23*	*−0.22*	*0*	---	--	
	8	*Hd.*	*EII*	*+0.053*	*−0.10*	*−0.10*	*I*	---	*3½*	
	9	*R.*	*EII*	*+0.068*	*−0.52*	*−0.51*	*I*	---	*5*	
	10	*Hd.*	*EII*	-----	*−0.26*	*−0.26*	*0*	---	*3*	
	12	*Hd.*	*WII*	-----	*+0.11*	*+0.11*	*I*	---	--	
	15	*Hd.*	*WII*	-----	*+0.10*	*+0.10*	*0*	---	--	
	19	*Hd.*	*WII*	*+0.040*	*−0.18*	*−0.19*	*II*	---	--	
Dec.	16	Fn.	EII	+0.028		−0.04	II	1.7	1½	
	19	R.	EII	−0.008		−0.35	II	2.1	2	
	21	R.	EII	+0.031		+0.05	I	---	2	
	22	R.	WII	+0.052		----	II	1.1	2½	
	27	Fn.	WII	+0.048		+0.32	II	1.6	3½	
	28	R.	WII	+0.009		+0.01	II	1.1	1½	
1913										
Jan.	3	Fn.	WII	+0.026		+0.38	II	1.3	3	
Feb.	6	R.	WII	+0.035		+0.05	II	1.6	2	
	8	Hd.	WII	+0.050		----	II	1.1	2	
	14	Fn.	WII	+0.020		+1.43	II	2.1	2½	
	15	Hd.	WII	+0.052		----	II	1.6	2	
Mar.	6	Hd.	EII	+0.055		−0.20	II	1.6	3	
	7	Fn.	EII	−0.011		−0.85	II	1.1	1½	
	11	Hd.	EII	+0.044		+0.13	II	---	2	
	12	Fn.	EII	−0.004		−0.13	I	---	2	
	17	Fn.	WII	+0.015		+0.43	II	1.1	2	
	18	Hd.	WII	+0.023		+0.04	II	1.1	2	
	20	R.	WII	+0.025		−0.81	II	1.1	2½	
	21	Fn.	WII	+0.003		+0.13	II	1.6	3½	
Nov.	24	Hd.	WI	+0.045		+1.10	II	1.6	2	
1914										
Jan.	9	R.	EI	−0.011		−0.26	II	1.6	2	
	15	Hd.	EI	+0.014		+0.09	II	1.1	2	
	17	Wy.	WI	−0.066		−0.16	I	---	3½	
	31	Wy.	WI	+0.011		+0.59	II	1.1	2	
Feb.	3	Wy.	EI	−0.033		----	II	---	2	
	15	Fn.	WI	+0.011		−0.15	I	---	2	
	17	Wy.	WI	−0.008		−0.48	I	---	2½	
	26	Fn.	EI	−0.004		----	II	1.6	2	
Mar.	9	Fn.	WI	−0.001		+0.22	I	---	2	
	10	Wy.	WI	−0.016		−0.09	II	1.1	2	
	13	Wy.	WI	−0.002		+0.60	I	---	2	
	16	Fn.	WI	+0.044		−0.07	0	---	3	
	20	Wy.	EI	+0.068		−0.40	II	1.1	3	
	21	Hd.	EI	+0.020		−0.20	0	---	2	
	23	Fn.	EI	+0.042		−0.47	II	---	2	
	24	Wy.	EI	−0.006		−0.31	II	1.1	2½	
July	*21*	*Fn.*	*EI*	*+0.056*	*−0.89*	*−0.79*	*0*	---	*4*	
	28	*Fn.*	*EI*	*+0.014*	*−0.10*	*−0.08*	*0*	---	*3½*	
Aug.	*6*	*Hd.*	*EI*	*+0.049*	*−0.99*	*−0.97*	*0*	---	*3*	
	12	*Hd.*	*WI*	*+0.042*	*+0.15*	*+0.20*	*0*	---	*3*	
	16	*Fn.*	*WI*	*+0.094*	*−0.17*	*−0.15*	*0*	---	*3½*	
	19	*Fn.*	*WI*	*+0.098*	*−1.20*	*−1.18*	*0*	---	--	

				s	″	″				
1914										
Aug.	*21*	*An.*	*WI*	*+0.016*	*−0.07*	*−0.05*	*0*	---	*3*	
	30	*Fn.*	*WI*	*−0.062*	*+0.25*	*+0.26*	*0*	---	*3*	
Sept.	*1*	*Wy.*	*WI*	*+0.063*	*−0.17*	*−0.16*	*I*	---	*3½*	
	3	*Fn.*	*WI*	*+0.102*	*+0.05*	*+0.06*	*0*	---	*3½*	
	4	*Wy.*	*WI*	*+0.036*	*+0.26*	*+0.27*	*I*	---	*3½*	
	8	*Fn.*	*EI*	*+0.006*	*−1.67*	*−1.66*	*0*	---	*3*	
	13	*Fn.*	*EI*	*+0.101*	*−0.65*	*−0.65*	*0*	---	*3½*	
	17	*An.*	*EI*	*+0.038*	*−0.59*	*−0.60*	*I*	---	*3*	
	20	*Hd.*	*EI*	*+0.064*	*−0.01*	*−0.02*	*I*	---	*2½*	
	21	*Wy.*	*EI*	*+0.019*	*+0.89*	*+0.89*	*I*	---	*3*	
	22	*An.*	*EI*	*+0.045*	*−0.02*	*−0.01*	*I*	---	*3*	
	25	*An.*	*EI*	*−0.018*	*−0.88*	*−0.88*	*II*	---	*3*	
Oct.	19	An.	EI	-----		−0.27	II	0.6	3	
1915										
Feb.	10	Hd.–An.	EI	-----		−0.19	II	1.1	2	
	17	Fn.–Wy.	EI	-----		+0.29	II	1.1	2	
	18	Hd.–An.	EI	-----		−1.59	I	---	3	R.
	19	Fn.–Wy.	EI	-----		−0.78	I	---	2	R.
	20	An.–Hd.	WI	-----		+0.29	II	2.1	2	
	21	An.–Hd.	WI	-----		−1.04	II	---	2½	R
	22	Wy.–Fn.	WI	-----		+0.48	0	---	3	
Mar.	1	Wy.–Fn.	WI	-----		−0.48	II	---	2½	R.
	2	Wy.–Fn.	WI	-----		−0.69	I	---	5	
	8	Wy.–Fn.	WI	-----		−0.52	II	1.1	2½	
July	*26*	*Hd.*	*EI*	*+0.003*	*−0.94*	*−0.89*	*0*	---	*3*	
Aug.	*2*	*An.*	*EI*	-----	*−0.16*	*−0.13*	*0*	---	*4*	
	3	*Hd.*	*EI*	-----	*+0.16*	*+0.21*	*0*	---	*3½*	
	5	*An.*	*EI*	-----	*−0.13*	*−0.11*	*0*	---	*4*	
	13	*Wy.*	*EI*	*−0.004*	*+0.52*	*+0.55*	*0*	---	*3*	
	17	*Wy.*	*WI*	*+0.007*	*+0.97*	*+1.04*	*I*	---	*3½*	
	18	*Fn.*	*WI*	*−0.008*	*−1.29*	*−1.27*	*0*	---	*3½*	
	19	*An.*	*WI*	-----	*+0.05*	*+0.08*	*I*	---	*3½*	
	24	*Wy.*	*WI*	*+0.043*	*−0.51*	*−0.47*	*0*	---	*3½*	
	25	*Hd.*	*WI*	*+0.061*	*−0.19*	*−0.18*	*0*	---	*3*	
Sept.	*7*	*Hd.*	*WI*	*+0.025*	*−0.38*	*−0.37*	*0*	---	*3*	
	8	*Wy.*	*WI*	*+0.031*	*−0.06*	*−0.06*	*I*	---	*3*	
	9	*Hd.*	*WI*	*−0.003*	*−0.32*	*−0.32*	*I*	---	*2*	
	12	*Hd.*	*EI*	*+0.057*	*−0.45*	*−0.44*	*I*	---	*2*	
	13	*Wy.*	*EI*	*+0.009*	*+0.44*	*+0.45*	*I*	---	*3½*	
	14	*Hd.*	*EI*	*+0.096*	*−0.35*	*−0.35*	*I*	---	*2½*	
	15	*Wy.*	*EI*	-----	*−0.01*	*0.00*	*I*	---	*3*	
	16	*Hd.*	*EI*	-----	*−0.02*	*−0.01*	*I*	---	*2*	
	19	*Hd.*	*EI*	*+0.060*	*−0.20*	*−0.20*	*I*	---	*2*	
	22	*Hd.*	*EI*	*+0.023*	----	----	*I*	---	*3*	
	24	*Wy.*	*EI*	*+0.063*	*+0.12*	*+0.12*	*I*	---	*3*	
	27	*Fn.*	*EI*	*+0.006*	*−0.22*	*−0.21*	*I*	---	*2*	
Oct.	*3*	*Wy.*	*EI*	*−0.107*	*−0.39*	*−0.38*	*I*	---	*2½*	
	28	Wy.	EI	+0.041		−0.59	II	---	3	
Nov.	1	Hd.	EI	+0.033		----	II	2.6	3½	
	5	Fn.	EI	+0.068		----	I	1.4	2½	
	7	Hd.	EI	+0.023		----	II	1.1	2	
	9	Wy.	WI	−0.004		----	II	1.1	2	
Dec.	21	Hd.	WI	+0.002		−0.04	II	2.1	2	
	22	Fn.	WI	+0.012		−0.43	II	2.1	2½	
1916										
Jan.	7	Wy.	EI	+0.037		−0.31	II	1.6	2½	
	8	Fn.	EI	+0.027		−1.06	II	2.6	2½	
Feb.	7	Wy.	EI	+0.035		+0.22	II	2.1	2½	
Mar.	23	Hd.–Wy.	WI	-----		−0.82	II	---	2	R.
	24	Hd.–Wy.	WI	-----		+0.45	II	2.6	3	
	31	Hd.–Wy.	EI	-----		−0.62	I	---	2	R.
Apr.	10	Hd.–Wy.	EI	-----		−0.31	II	2.1	2	
June	*1*	*Fn.*	*EI*	*−0.059*	*−1.29*	*−1.26*	*0*	---	*3*	
	2	*Hd.*	*EI*	*−0.008*	*−1.14*	*−1.14*	*0*	---	*3*	
	8	*Hd.*	*EI*	*+0.021*	*−0.57*	*−0.51*	*0*	---	*4*	
	22	*Fn.*	*WI*	*+0.053*	*−1.19*	*−1.15*	*0*	---	*3½*	
	23	*Hd.*	*WI*	*+0.052*	*−0.11*	*−0.06*	*0*	---	*3*	
	27	*Wy.*	*WI*	*+0.020*	*−0.53*	*−0.49*	*0*	---	*4*	
July	*6*	*Wy.*	*EI*	*−0.017*	*−1.01*	*−0.95*	*0*	---	*3½*	
	26	*Fn.*	*WI*	*−0.039*	*−0.26*	*−0.20*	*0*	---	*3½*	
Aug.	*16*	*Fn.*	*EI*	*+0.070*	*−0.25*	*−0.22*	*0*	---	*3½*	
	17	*Wy.*	*EI*	*+0.076*	*−0.03*	*−0.01*	*0*	---	*3½*	
	20	*Wy.*	*EI*	*+0.015*	*−0.50*	*−0.47*	*0*	---	*3½*	
	21	*Fn.*	*EI*	*−0.027*	*−0.51*	*−0.46*	*0*	---	*3½*	
	24	*Fn.*	*WI*	*+0.126*	*−1.44*	*−1.42*	*0*	---	*3½*	
Sept.	*4*	*Wy.*	*WI*	*+0.056*	*−0.09*	*−0.08*	*0*	---	*3½*	
	7	*Wy.*	*WI*	*+0.072*	*−0.36*	*−0.35*	*0*	---	*3½*	
	10	*Hd.*	*WI*	*+0.106*	*−0.48*	*−0.47*	*I*	---	*3½*	

				s	″	″			
1916									
Sept.	*19*	*Wy.*	*EI*	*+0.038*	*−0.27*	*−0.26*	*I*	---	*3½*
	24	*Wy.*	*EI*	*+0.017*	*−0.19*	*−0.19*	*I*	---	*3½*
	25	*Hd.*	*EI*	*+0.015*	*−0.38*	*−0.38*	*II*	---	*2*
Oct.	*1*	*Wy.*	*WI*	*+0.076*	*+0.40*	*+0.41*	*I*	---	*3½*
1917									
Mar.	6	Fn.	WI	+0.033		−0.14	II	1.6	1½
	9	Fn.	WI	+0.018		−0.56	II	2.1	2
	12	Hd.	EI	−0.007		−0.95	II	2.1	2
	15	Wy.	EI	−0.010		−1.09	II	2.1	3
	19	Fn.	EI	+0.025		+0.46	II	2.1	1½
	20	Hd.	EI	+0.010		−0.13	I	---	3
	22	Fn.	EI	+0.012		+0.15	II	1.6	2½
	25	Hd.	WI	+0.006		----	II	1.6	2
	28	Hd.	WI	0.000		----	II	1.1	2
	30	Fn.	WI	+0.023		−0.49	II	1.6	2½
Apr.	3	Hd.	WI	+0.010		+0.07	II	2.1	2
	9	*Hd.*	*WI*	*−0.043*	*−0.24*	*−0.24*	*II*	---	*2*
	10	*Fn.*	*WI*	*+0.016*	*−0.13*	*−0.14*	*I*	---	*2*
	16	*Fn.*	*WI*	*+0.045*	*−0.77*	*−0.79*	*I*	---	*3*
May	*1*	*Fn.*	*EI*	*+0.007*	*−0.99*	*−0.97*	*0*	---	*3½*
	10	*Fn.*	*WI*	*−0.025*	*−1.06*	*−1.04*	*0*	---	*3*
	14	*Wy.*	*WI*	*+0.029*	*−0.36*	*−0.35*	*I*	---	*3*
	15	*Hd.*	*WI*	*−0.013*	*−0.55*	*−0.54*	*0*	---	*3*
	18	*Hd.*	*WI*	*+0.010*	*−0.51*	*−0.50*	*0*	---	*3*
June	*4*	*Wy.*	*WI*	*+0.043*	*−1.39*	*−1.35*	*0*	---	*4*
	25	*Wy.*	*WII*	*+0.037*	*−0.84*	*−0.79*	*0*	---	*3½*
July	*2*	*Hd.*	*EII*	-----	*−0.77*	*−0.71*	*0*	---	*3½*
	29	*Wy.*	*EII*	*+0.080*	*−1.38*	*−1.31*	*0*	---	*4*
	30	*Fn.*	*EII*	*−0.005*	*−0.44*	*−0.40*	*0*	---	*3½*
Aug.	*2*	*Fn.*	*WII*	*+0.031*	*−0.26*	*−0.23*	*0*	---	*3*
	5	*Hd.*	*WII*	*−0.040*	*+0.01*	*+0.03*	*0*	---	*3½*
	6	*Wy.*	*WII*	*+0.094*	*−1.90*	*−1.87*	*0*	---	*4*
	9	*Wy.*	*WII*	*+0.042*	*−1.06*	*−0.98*	*0*	---	*3½*
	13	*Hd.*	*WII*	*+0.041*	*+0.01*	*+0.03*	*0*	---	*3*
	16	*Wy.*	*WII*	*+0.031*	*−0.90*	*−0.88*	*0*	---	*3½*
	19	*Fn.*	*WII*	*+0.023*	*−1.25*	*−1.22*	*0*	---	*3½*
	20	*Wy.*	*WII*	*+0.124*	*−0.65*	*−0.63*	*0*	---	*4*
	24	*Wy.*	*EII*	*+0.071*	*−0.34*	*−0.32*	*I*	---	*3½*
Sept.	*3*	*Fn.*	*EII*	*+0.015*	*+0.62*	*+0.65*	*0*	---	*3½*
	6	*Hd.*	*EII*	*+0.053*	*−0.36*	*−0.34*	*0*	---	*3½*
	10	*Fn.*	*EII*	*+0.090*	*−0.38*	*−0.36*	*0*	---	*3*
	12	*Hd.*	*EII*	*+0.062*	*−0.90*	*−0.90*	*I*	---	*3½*
	16	*Hd.*	*EII*	*+0.001*	*−0.35*	*−0.34*	*I*	---	*3*
	17	*Wy.*	*EII*	*+0.050*	*−0.05*	*−0.04*	*I*	---	*3½*
	19	*Hd.*	*WII*	*+0.028*	*−0.02*	*−0.02*	*0*	---	*3*
	30	*Hd.*	*WII*	*−0.007*	*+0.24*	*+0.25*	*I*	---	*3*
Oct.	*1*	*Fn.*	*WII*	*+0.042*	*+0.19*	*+0.20*	*I*	---	*3*
1918									
Feb.	11	Wy.	WII	+0.020		−0.53	II	1.6	3
	28	Wy.	EII	+0.041		−0.11	I	---	3½
Mar.	5	Hd.	EII	+0.020		+0.55	II	2.6	2
	7	Fn.	EII	+0.024		−0.72	I	---	2
	8	Wy.	EII	+0.047		+0.16	I	---	3
	15	Fn.	WII	+0.008		−0.40	I	1.4	2
	18	Wy.	WII	+0.010		−0.09	II	2.1	2½
	25	Fn.	WII	+0.013		−0.14	I	1.9	2
Apr.	2	Fn.	EII	+0.015		−0.29	I	1.4	3
	5	Fn.	EII	+0.050		+0.11	I	1.4	2
	15	*Fn.*	*EII*	*+0.061*	*−1.05*	*−1.07*	*I*	---	*2*
June	*19*	*Wy.*	*WII*	*+0.088*	*−1.05*	*−1.01*	*0*	---	*3½*
July	*9*	*Hd.*	*EII*	*+0.131*	*−0.35*	*−0.29*	*0*	---	*4*
Aug.	*14*	*Fn.*	*WII*	*+0.079*	*−0.33*	*−0.30*	*0*	---	*3½*
Mean		1914.70		+0.021		−0.04			
		1914.80							
Corr				−0.081		−0.25			

Bradley 1118

				h	m	s	°	′	″			
1913												
Feb.	7	Fn.	WII	7	39	54.400	−28	11	48.09	0	5.2	3½
	12	Fn.	WII			54.376			47.10	0	5.4	3
	13	R.	WII			54.383			48.14	0	---	4
	18	Hd.	EII			54.358			47.53	0	5.5	3
	19	Fn.	EII			54.389			46.53	0	5.6	3
Dec.	29	Hd.	WI			54.380			48.36	0	5.8	3½
1914												
Jan.	5	Hd.	EI			54.428			47.53	0	6.0	3½
	8	Hd.	EI			54.400			47.77	0	---	3½
	29	R.	WI			54.388			47.91	0	---	4
Mean		1913.53		7	39	54.389	−28	11	47.66			
Corr						−0.081			0.00			

Bradley 1115

				h	m	s	°	′	″			
1912												
Feb.	17	R.	EII	7	40	54.879	+18	43	48.78	0	5.5	1
	23	Hd.	WII			54.900			48.63	I	4.4	--
	27	Hd.	WII			54.889			48.57	I	4.4	2
Mar.	9	R.	EII			54.898			49.25	0	5.5	5
1915												
Nov.	16	Hd.	WI			54.835			48.82	I	4.9	3
	29	Wy.	EI			54.902			47.93	I	4.4	2½
	30	Hd.	EI			54.920			48.26	I	4.9	3
Dec.	8	Wy.	WI			54.868			48.96	I	4.9	3
Mean		1914.03		7	40	54.886	+18	43	48.65			
Corr						−0.081			−0.23			

π Geminorum

				h	m	s	°	′	″			
1913												
Feb.	14	Fn.	WII	7	41	42.305	+33	38	14.54	0	5.5	2½
	15	Hd.	WII			42.362			14.23	0	5.5	2
	17	Fn.	EII			42.361			13.34	0	6.0	2
	25	Hd.	EII			42.384			14.27	0	5.6	2
Dec.	12	Fn.	EI			42.323			13.78	0	5.5	3½
	13	R.	EI			42.310			13.96	0	5.5	2½
	18	Hd.	WI			42.369			14.46	0	5.5	2½
	26	Fn.	WI			42.328			13.54	0	6.0	3
Mean		1913.55		7	41	42.343	+33	38	14.02			
Corr						−0.081			−0.26			

4 Puppis

				h	m	s	°	′	″			
				7	41	48.216	−14	20	40.20			
1912												
Feb.	2	Hd.	WII			+0.034			−0.04	0	5.5	--
	13	Hd.	EII			+0.033			−0.42	0	5.5	4
	14	R.	EII			+0.057			−0.41	0	5.5	1
	22	R.	WII			+0.013			−0.75	0	---	4
1915												
Oct.	27	Fn.	WI			+0.004			+0.09	0	5.5	3
Nov.	1	Hd.	EI			+0.070			−0.84	0	6.0	3½
	7	Hd.	EI			+0.059			−0.65	0	6.5	3
	9	Wy.	WI			+0.076			−0.40	I	5.4	3
Mean		1913.98				+0.043			−0.43			
Corr						−0.081			−0.12			

Lalande 15177

				h	m	s	°	′	″			
1912												
Nov.	4	R.	WII	7	43	16.449	+5	37	59.97	0	7.0	2
	16	R.	EII			------			60.84	0	7.0	2
Dec.	12	R.	EII			16.439			61.21	0	7.0	1½
	13	Fn.	EII			16.432			60.73	0	6.8	1½
	22	R.	WII			16.427			60.48	0	6.5	2
1913												
Nov.	20	Hd.	WI			16.416			59.72	0	7.0	2
	21	Fn.	WI			16.447			59.97	0	7.0	2
Dec.	3	R.	EI			16.430			59.88	0	6.0	2
	5	R.	EI			16.479			59.25	0	6.5	2
Mean		1913.42		7	43	16.440	+5	38	0.23			
		1913.36										
Corr						−0.081			−0.19			

Åbo 1830, 161

			h	m	s	°	′	″			
1912											
Mar. 7	Fn.	WII	7	43	20.517	−22	17	51.26	0	6.5	3
17	R.	EII			20.475			51.03	0	6.5	3
22	Hd.	EII			20.523			51.47	0	6.5	3
25	Fn.	WII			20.499			51.42	0	6.7	2½
1915											
Nov. 10	Hd.	WI			20.537			52.42	0	6.5	3
15	Wy.	WI			20.540			51.58	0	6.5	3½
22	Hd.	EI			20.486			52.27	0	6.5	3
24	Wy.	EI			20.502			51.77	0	6.5	3½
Mean	1914.04		7	43	20.510	−22	17	51.65			
Corr					−0.081			−0.06			

Weisse$_2$ VII 1183

			h	m	s	°	′	″			
1913											
Jan. 14	R.	WII	7	44	18.089	+26	29	22.76	0	7.0	1
18	R.	EII			18.047			23.34	0	6.5	2
19	R.	EII			18.094			22.81	0	7.5	2
Feb. 4	Hd.	WII			18.097			22.58	0	6.5	2
Nov. 4	Fn.	EI			18.078			23.18	0	7.0	2
5	R.	EI			18.137			22.67	0	6.0	2
10	Hd.	WI			18.109			22.46	0	---	2½
17	Hd.	WI			18.132			22.90	0	6.5	3
Mean	1913.46		7	44	18.098	+26	29	22.84			
Corr					−0.081			−0.24			

ξ Argûs

			h	m	s	°	′	″			
			7	45	30.548	−24	38	0.15			
1912											
Jan. 16	R.	WII			−0.010			−0.77	I	2.9	5
19	Fn.	WII			+0.127			−1.45	I	3.1	2½
24	R.	EII			+0.050			+0.57	I	2.9	2
Feb. 8	Fn.	EII			+0.042			−0.85	I	3.4	4
1915											
Oct. 23	Wy.	WI			+0.032			−0.12	I	3.9	4
25	Wy.	WI			+0.045			−1.02	I	4.4	4
28	Wy.	EI			+0.072			+0.95	I	---	3½
29	Hd.	EI			+0.032			+0.59	0	---	4
30	Fn.	EI			+0.005			+0.08	I	4.4	3½
Mean	1914.15				+0.044			−0.22			
Corr					−0.081			−0.03			

Bradley 1129

			h	m	s	°	′	″			
1912											
Dec. 16	Fn.	EII	7	45	37.301	−16	59	55.62	0	5.6	2½
19	R.	EII			37.344			56.07	0	6.0	2½
27	Fn.	WII			37.355			55.22	0	5.7	4
28	R.	WII			37.359			55.99	0	5.5	4
1913											
Nov. 22	R.	WI			37.282			54.87	0	---	5
24	Hd.	WI			37.345			56.00	0	6.0	3
Dec. 8	Hd.	EI			37.358			55.88	0	6.0	3
9	Fn.	EI			------			55.48	0	6.0	2½
11	Hd.	EI			37.344			55.78	0	6.0	3
Mean	1913.45		7	45	37.336	−16	59	55.66			
	1913.50										
Corr					−0.081			−0.10			

Weisse$_1$ VII 1320

			h	m	s	°	′	″			
1912											
Jan. 20	R.	WII	7	46	39.507	−10	53	56.20	0	6.0	1½
21	Hd.	WII			39.568			55.87	0	6.0	--
Feb. 9	Hd.	EII			39.512			56.34	0	6.5	--
17	R.	EII			39.445			55.73	0	7.0	1½
1915											
Nov. 16	Hd.	WI			39.515			55.74	0	6.5	3
17	Fn.	WI			39.543			56.36	0	6.5	2½
29	Wy.	EI			39.484			55.81	0	6.5	3½
30	Hd.	EI			39.490			55.81	0	6.5	3
Mean	1913.99		7	46	39.508	−10	53	55.98			
Corr					−0.081			−0.14			

ζ Canis Minoris

			h	m	s	°	′	″			
1913											
Feb. 6	R.	WII	7	47	1.983	+1	59	49.37	0	6.0	2½
7	Fn.	WII			1.999			49.10	0	5.4	2½
17	Fn.	EII			2.006			49.34	0	5.6	3
18	Hd.	EII			1.956			49.65	0	5.8	2
Dec. 12	Fn.	EI			1.999			49.16	0	5.5	3½
13	R.	EI			2.012			48.97	0	5.5	4½
18	Hd.	WI			1.984			49.40	0	5.5	2
19	Fn.	WI			1.988			50.29	0	5.0	2
Mean	1913.54		7	47	1.991	+1	59	49.41			
Corr					−0.081			−0.18			

9 Puppis[1]

			h	m	s	°	′	″			
1912											
Feb. 2	Hd.	WII	7	47	36.280	−13	39	31.20	0	5.5	--
13	Hd.	EII			36.251			32.06	0	5.8	3½
14	R.	EII			36.305			32.14	0	6.0	2
22	R.	WII			36.272			33.17	0	---	4
1915											
Oct. 27	Fn.	WI			36.270			33.29	0	5.5	2½
Nov. 1	Hd.	EI			36.289			34.31	0	6.5	4
5	Fn.	EI			36.311			33.83	0	5.5	3
9	Wy.	WI			36.299			33.70	0	6.0	2½
Mean	1913.98		7	47	36.285	−13	39	32.96			
Corr					−0.081			−0.12			

Weisse$_1$ VII 1336

			h	m	s	°	′	″			
1913											
Feb. 8	Hd.	WII	7	47	37.648	−2	49	23.65	0	7.0	2
12	Fn.	WII			37.639			23.29	0	7.0	2½
14	Fn.	WII			37.614			23.20	0	7.0	3
19	Fn.	EII			37.558			23.36	0	---	3
25	Hd.	EII			37.615			23.68	0	7.0	3
Dec. 29	Hd.	WI			37.630			24.08	0	---	2
1914											
Jan. 9	R.	EI			37.575			23.28	0	8.0	2½
15	Hd.	EI			37.600			23.55	0	7.0	3
17	Wy.	WI			37.578			24.10	0	7.0	3
29	R.	WI			37.606			24.28	0	8.0	4
Mean	1913.58		7	47	37.606	−2	49	23.65			
Corr					−0.081			−0.17			

φ Geminorum

			h	m	s	°	′	″			
			7	47	59.489	+26	59	58.04			
1912											
Feb. 23	Hd.	WII			+0.012			−0.27	I	4.9	2
27	Hd.	WII			−0.034			−0.40	I	4.4	--
Mar. 9	R.	EII			−0.004			+0.20	0	---	3½
10	Fn.	EII			−0.037			−0.22	0	5.0	2
1915											
Dec. 2	Hd.	EI			−0.035			−0.70	I	4.9	2
9	Fn.	WI			−0.013			−1.18	0	5.0	2
10	Hd.	WI			−0.038			−0.72	0	5.5	3
1916											
Jan. 3	Wy.	EI			+0.011			−1.09	0	6.0	2½
Mean	1914.06				−0.017			−0.55			
Corr					−0.081			−0.24			

[1] Double; mean observed.

26 Lyncis

			h m s	° ′ ″			
			7 48 9.851	+47 47 55.33			
1912							
Feb. 28	R.	WII	−0.068	+0.11	0	5.5	2½
Mar. 1	Hd.	WII	−0.069	+0.16	0	5.5	--
13	Fn.	EII	−0.120	+0.05	0	5.7	2½
16	Fn.	EII	−0.103	−0.17	0	---	--
1915							
Dec. 21	Hd.	WI	−0.119	+0.39	0	6.0	2
22	Fn.	WI	−0.093	+0.01	0	6.0	2
1916							
Jan. 7	Wy.	EI	−0.047	−0.78	0	6.0	3
8	Fn.	EI	−0.055	+0.33	0	6.0	2½
Mean	1914.09		−0.084	+0.01			
Corr			−0.081	−0.29			

α Puppis

			h m		° ′ ″			
1912								
Mar. 26	Hd.	WII	7 49	-----	−40 20 37.1	0	---	4
Oct. 16	Hd.	WII		-----	36.9	0	---	4
17	Hd.	WII		-----	35.7	0	---	4
20	Hd.	EII		-----	36.1	0	---	5
25	Hd.	EII		-----	37.1	0	---	5
27	Hd.	EII		-----	37.0	0	---	5
Nov. 4	R.	WII		-----	38.1	0	---	--
1913								
Nov. 22	R.	WI		-----	35.0	I	---	--
Dec. 5	R.	EI		-----	36.6	I	---	--
1914								
Mar. 7	Hd.	EI		-----	36.7	0	---	--
13	Wy.	WI		-----	[40.0]	0	---	3½
24	Wy.	EI		-----	35.8	0	---	3½
26	Fn.	EI		-----	36.0	0	---	4
1917								
Mar. 6	Fn.	WI		-----	36.5	0	---	3½
12	Hd.	EI		-----	35.2	0	---	4
19	Fn.	EI		-----	36.4	0	---	3
30	Fn.	WI		-----	37.3	0	---	4
Apr. 3	Hd.	WI		-----	35.8	0	---	3½
10	Fn.	WI		-----	36.8	0	---	4
1918								
Mar. 5	Hd.	EII		-----	37.3	0	---	4
15	Fn.	WII		-----	36.7	0	---	3½
Apr. 5	Fn.	EII		-----	34.6	0	---	3½
Mean	1915.12		7 49	-----	−40 20 36.41			
Corr				-----	+0.34			

Groombridge 1374

			h m s	° ′ ″				
			7 49 26.553	+74 9 34.30				
1912								
Mar. 7	Fn.	WII	+0.09	+0.56	0	5.6	2	
17	R.	EII	−0.06	−0.29	0	6.0	2½	
22	Hd.	EII	−0.13	−0.30	0	5.5	2	
25	Fn.	WII	+0.10	−0.47	0	5.2	2	
1915								
Feb. 10	Hd.–An.	EI	----	−0.54	I	4.9	2	
17	Fn.–Wy.	EI	----	+0.51	0	5.0	2	
18	Hd.–An.	EI	----	+0.66	0	---	3	R.
19	Fn.–Wy.	EI	----	+0.46	0	---	2	R.
20	An.–Hd.	WI	----	+0.29	0	---	2½	
21	An.–Hd.	WI	----	+1.24	0	---	3	R.
Mar. 1	Wy.–Fn.	WI	----	+0.62	0	---	3	R.
2	Wy.–Fn.	WI	----	+0.10	0	---	4	
8	Wy.–Fn.	WI	----	+0.36	I	4.4	3	
9	Wy.–Fn.	WI	----	+0.50	I	5.4	3	
Nov. 7	Hd.	EI	+0.04	+0.33	0	---	2	
10	Hd.	WI	+0.01	+0.06	0	6.0	3	
15	Wy.	WI	−0.12	+0.14	0	5.5	3	
22	Hd.	EI	+0.08	−0.21	0	6.0	2	
1916			s	″				
Mar. 23	Hd.–Wy.	WI	----	+0.55	0	6.0	2	
24	Hd.–Wy.	WI	----	+1.70	0	---	3	R.
31	Hd.–Wy.	EI	----	+0.04	0	5.5	2	
Apr. 10	Hd.–Wy.	EI	----	+0.83	0	---	2	R.
Mean	1914.04		+0.001	+0.10				
	1914.73							
Corr			−0.081	−0.35				

Groombridge 1374 s. p.

			h m s	° ′ ″			
			7 49 26.554	+74 9 34.34			
1912							
Aug. 7	Fn.	EII	−0.17	−1.52	0	6.2	3½
10	R.	EII	−0.15	−0.86	0	6.0	3½
Sept. 12	R.	WII	+0.03	−0.11	0	6.0	1½
14	R.	WII	0.00	−0.02	0	6.0	2½
1914							
July 8	Fn.	WI	+0.14	−0.30	0	---	2½
9	Hd.	WI	+0.01	−0.16	0	6.5	2½
19	Hd.	EI	−0.13	+0.79	0	6.0	3
20	Fn.	EI	+0.01	−0.03	0	5.5	3½
Mean	1913.59		−0.032	−0.28			
Corr			−0.081	+0.54			

Bradley 1137

			h m s	° ′ ″			
1912							
Nov. 16	R.	EII	7 50 ------	+20 7 20.54	0	5.5	2
Dec. 12	R.	EII	24.848	20.51	0	6.0	1½
13	Fn.	EII	24.848	19.73	0	5.8	2
22	R.	WII	24.859	19.67	0	6.5	3
27	Fn.	WII	24.842	20.11	0	6.0	3½
1913							
Nov. 4	Fn.	EI	24.835	19.82	0	5.5	2
5	R.	EI	24.829	19.71	I	4.4	2
10	Hd.	WI	24.872	20.08	0	---	2
17	Hd.	WI	24.856	20.92	0	6.0	3
Mean	1913.41	7 50	24.849	+20 7 20 12			
	1913.35						
Corr			−0.081	−0.23			

Lalande 15408

			h m s	° ′ ″			
1912							
Jan. 16	R.	WII	7 50 37.907	+30 5 24.61	0	7.0	2
19	Fn.	WII	37.954	24.18	0	6.8	1½
24	R.	EII	37.895	24.47	0	7.0	1
27	R.	EII	37.899	23.59	0	7.0	1
1915							
Oct. 23	Wy.	WI	37.906	24.38	0	7.0	2½
25	Wy.	WI	37.926	24.16	0	7.0	2½
28	Wy.	EI	37.904	23.57	0	---	3
29	Hd.	EI	37.900	24.54	0	7.5	3
Mean	1913.94	7 50	37.911	+30 5 24.19			
Corr			−0.081	−0.25			

B. D.+44° 1693

			h m s	° ′ ″			
1912							
Dec. 19	R.	EII	7 51 57.455	+44 13 7.44	0	7.0	1½
28	R.	WII	57.528	6.36	0	6.5	3
30	Fn.	WII	57.458	7.13	0	6.3	2½
1913							
Jan. 19	R.	EII	57.500	6.94	0	7.0	1½
Nov. 20	Hd.	WI	57.525	6.24	0	6.5	2
21	Fn.	WI	57.537	6.54	0	6.5	2
Dec. 3	R.	EI	57.502	6.24	0	5.5	2
11	Hd.	EI	57.511	6.56	0	6.0	2
Mean	1913.46	7 51	57.502	+44 13 6.68			
Corr			−0.081	−0.28			

Bradley 1141

				h	m	s	°	′	″				
1913													
Jan.	14	R.	WII	7	52	59.369	−22	38	22.38	I	4	9	1½
	18	R.	EII			59.408			21.98	0	5	5	..
Feb.	6	R.	WII			59.424			22.24	0	5	0	3
	25	Hd.	EII			59.358			21.96	I	4	4	3
Nov.	22	R.	WI			59.338			21.32	I	4	4	2½
	24	Hd.	WI			59.403			22.26	I	4	4	3
Dec.	12	Fn.	EI			59.407			23.53	0		---	4
	13	R.	EI			59.462			22.88	0		---	5
Mean		1913.50		7	52	59.396	−22	38	22.32				
Corr						−0.081			−0.05				

Bradley 1139

				h	m	s	°	′	″				
1912													
Jan.	20	R.	WII	7	53	40.726	+2	27	54.20	I	4	4	2
	21	Hd.	WII			40.729			55.15	0	5	8	3
Feb.	8	Fn.	EII			40.670			54.76	0	5	8	3
	9	Hd.	EII			40.714			54.59	0	6	0	..
1915													
Oct.	27	Fn.	WI			40.689			55.91	0	6	0	2½
	30	Fn.	EI			40.668			56.07	0	5	5	3
Nov.	1	Hd.	EI			40.688			55.44	0	6	0	3½
	9	Wy.	WI			40.654			55.86	I	5	4	3
Mean		1913.96		7	53	40.692	+2	27	55.25				
Corr						−0.081			−0.18				

Lacaille 3081

				h	m	s	°	′	″				
1913													
Feb.	7	Fn.	WII	7	54	4.903	−30	5	31.14	0	5	4	4
	8	Hd.	WII			4.870			31.45	0	6	0	3
	18	Hd.	EII			4.821			31.70	0	6	0	3
	19	Fn.	EII			4.751			31.64	0	5	6	3
Dec.	20	R.	WI			4.880			32.34	0	6	0	2½
	26	Fn.	WI			4.792			32.50	0	5	0	3½
1914													
Jan.	5	Hd.	EI			4.917			31.68	0	6	0	3½
	9	R.	EI			4.894			31.91	0		---	3½
Mean		1913.56		7	54	4.854	−30	5	31.80				
Corr						−0.081			+0.03				

Piazzi VII 267

				h	m	s	°	′	″				
1912													
Feb.	2	Hd.	WII	7	54	33.700	+13	29	14.97	0	6	5	..
	13	Hd.	EII			33.675			14.24	0	6	5	2
	14	R.	EII			33.667			15.21	0	7	0	2½
	22	R.	WII			33.697			15.12	0		---	3
1915													
Nov.	5	Fn.	EI			33.644			15.37	0	6	5	2½
	7	Hd.	EI			33.662			14.96	0	7	0	2
	10	Hd.	WI			33.637			14.58	0	6	5	2
	15	Wy.	WI			33.666			15.06	0	6	5	2½
Mean		1913.99		7	54	33.668	+13	29	14.94				
Corr						−0.081			−0.22				

ω Cancri

				h	m	s	°	′	″				
				7	55	29.237	+25	38	23.32				
1912													
Nov.	16	R.	EII			-----			+0.19	0	6	0	1
Dec.	12	R.	EII			+0.043			−0.11	0	6	0	1½
	13	Fn.	EII			+0.011			−0.99	0	6	4	2
	22	R.	WII			+0.022			−0.49	0	6	0	2½
	27	Fn.	WII			+0.019			−0.01	0	6	1	3½
1913													
Nov.	5	R.	EI			+0.048			−1.13	I		---	2
	10	Hd.	WI			+0.036			+0.23	0		---	2
	17	Hd.	WI			+0.047			+0.41	0	6	0	3
Dec.	5	R.	EI			+0.008			−0.61	0	5	5	2
1915						s			″				
Feb.	10	Hd.–An.	EI			-----			−0.20	0		---	2 R.
	17	Fn.–Wy.	EI			-----			−0.44	0		---	2½ R.
	18	Hd.–An.	EI			-----			−0.07	0	6	0	3
	19	Fn.–Wy.	EI			-----			−0.21	0	6	0	2
	20	An.–Hd.	WI			-----			−0.86	0		---	2 R.
	21	An.–Hd.	WI			-----			+0.53	0	7	0	3
Mar.	1	Wy.–Fn.	WI			-----			+0.15	0	6	5	2½
	2	Wy.–Fn.	WI			-----			−0.63	0		---	4 R.
	8	Wy.–Fn.	WI			-----			−0.08	0		---	3 R.
	9	Wy.–Fn.	WI			-----			−0.16	0		---	3 R.
1916													
Mar.	23	Hd.–Wy.	WI			-----			+0.43	0	6	0	2
	24	Hd.–Wy.	WI			-----			−0.03	0		---	3 R
	31	Hd.–Wy.	EI			-----			−0.07	0		---	2
Apr.	10	Hd.–Wy.	EI			-----			−0.27	0		---	2 R.
Mean		1913.42				+0.029			−0.12				
		1914.22											
Corr						−0.081			−0.24				

Groombridge 1359

				h	m	s	°	′	″				
1912													
Feb.	17	R.	EII	7	55	30.44	+84	19	14.87	0	7	5	2
	23	Hd.	WII			30.45			13.87	0	6	5	..
	27	Hd.	WII			30.79			13.93	0	6	0	2
Mar.	9	R.	EII			31.08			14.21	0	7	5	3
1915													
Nov.	16	Hd.	WI			30.94			14.19	0	7	0	2
	17	Fn.	WI			30.51			14.39	0	6	5	3
	22	Hd.	EI			31.09			14.54	0	7	0	2
	24	Wy.	EI			30.58			13.83	0	7	0	2½
Mean		1914.02		7	55	30.735	+84	19	14.23				
Corr						−0.081			−0.39				

Groombridge 1359 s. p.

				h	m	s	°	′	″				
1912													
Sept.	17	R.	WII	7	55	30.66	+84	19	13.68	0	7	0	4
	20	Hd.	WII			30.54			13.16	0	6	5	3
	29	R.	EII			30.94			-----	0		---	..
	30	Hd.	EII			30.42			13.20	0	7	0	2
Oct.	1	Hd.	EII			30.75			12.65	0	7	0	3
1914													
July	28	Hd.	EI			30.54			13.83	0	6	5	2½
	31	Fn.	EI			30.15			13.51	0	6	5	3½
Aug.	13	Hd.	WI			30.47			13.05	0	6	5	2½
	14	Wy.	WI			30.61			12.62	0		---	3
Mean		1913.56		7	55	30.564	+84	19	13.21				
		1913.66											
Corr						−0.081			+0.45				

Cape 1860, 302

				h	m	s	°	′	″				
1912													
Jan.	16	R.	WII	7	55	50.129	−18	9	7.44	I	4	4	3
	19	Fn.	WII			50.069			6.37	0	5	3	2
	24	R.	EII			50.123			6.96	0	5	5	2
	27	R.	EII			50.018			5.78	0	5	5	5
1915													
Nov.	27	Wy.	EI			50.075			6.69	0	5	5	3
	29	Wy.	EI			50.086			7.33	0	5	5	3½
Dec.	9	Fn.	WI			50.082			8.96	0	5	0	3
	10	Hd.	WI			50.158			7.37	0	6	0	3
Mean		1913.99		7	55	50.092	−18	9	7.11				
Corr						−0.081			−0.09				

Weisse$_1$ VII 1591

				h	m	s	°	′	″				
1912													
Dec.	16	Fn.	EII	7	56	57.625	+9	9	45.81	0		---	1
	19	R.	EII			57.589			45.62	0		---	2
	30	Fn.	WII			57.594			46.21	0	6	6	2½

			h	m	s	°	′	″			
1913											
Jan. 3	Fn.	WII			57.605			46.27	0	6.5	3
Dec. 18	Hd.	WI			57.586			46.18	0	6.5	3
19	Fn.	WI			57.556			46.74	0	6.5	2
1914											
Jan. 8	Hd.	EI			57.589			46.29	0	6.5	3
15	Hd.	EI			57.552			46.68	0	6.5	3
Mean	1913.49		7	56	57.587	+9	9	46.22			
Corr					−0.081			−0.21			

χ Geminorum

			h	m	s	°	′	″			
			7	57	59.601	+28	2	50.01			
1912											
Dec. 21	R.	EII			−0.022			+0.76	0	---	2
1913											
Jan. 9	R.	WII			−0.063			---	0	---	--
14	R.	WII			−0.031			+0.27	I	4.4	1
18	R.	EII			−0.036			+0.84	I	4.9	2
Feb. 6	R.	WII			−0.015			−0.03	I	---	2
Nov. 20	Hd.	WI			+0.014			+0.11	I	4.9	2
21	Fn.	WI			−0.029			+0.05	0	5.5	2
Dec. 3	R.	EI			−0.042			−0.22	I	4.4	1½
12	Fn.	EI			−0.053			−0.59	0	5.0	3½
Mean	1913.43				−0.031			+0.15			
	1913.48										
Corr					−0.081			−0.25			

Weisse$_1$ VII 1628

			h	m	s	°	′	″			
1912											
Feb. 28	R.	WII	7	58	0.667	−6	5	8.72	0	7.0	2½
Mar. 1	Hd.	WII			0.751			9.59	0	6.5	2
10	Fn.	EII			0.698			8.73	0	6.8	3
13	Fn.	EII			0.708			9.14	0	---	3
16	Fn.	EII			0.640			9.37	0	6.4	2
1915											
Oct. 25	Wy.	WI			0.716			9.48	0	6.5	3
29	Hd.	EI			0.674			9.49	0	7.0	3½
Nov. 1	Hd.	EI			0.743			9.60	0	7.0	3½
9	Wy.	WI			0.715			8.73	0	7.0	3
Mean	1913.81		7	58	0.701	−6	5	9.21			
Corr					−0.081			−0.16			

Bradley 1156

			h	m	s	°	′	″			
1912											
Jan. 20	R.	WII	8	0	3.771	+13	22	31.12	0	5.5	2
21	Hd.	WII			3.802			30.87	0	5.8	--
Feb. 8	Fn.	EII			3.755			30.01	0	5.5	2½
9	Hd.	EII			3.800			30.17	0	5.8	--
1915											
Nov. 17	Fn.	WI			3.775			29.80	0	5.5	2
24	Wy.	EI			3.779			29.86	I	4.9	2½
27	Wy.	EI			3.779			30.26	I	4.9	2½
Dec. 6	Hd.	WI			3.753			29.38	0	5.5	2
Mean	1913.99		8	0	3.777	+13	22	30.18			
Corr					−0.081			−0.22			

ζ Argûs

			h	m	s	°	′	″			
1912											
Mar. 26	Hd.	WII	8	0	-----	−39	44	58.8	0	---	4
Oct. 16	Hd.	WII			-----			57.9	0	---	4
17	Hd.	WII			-----			57.7	0	---	--
20	Hd.	EII			-----			56.9	0	---	5
25	Hd.	EII			-----			58.3	I	---	4½
27	Hd.	EII			-----			56.8	I	---	5
28	Hd.	EII			-----			58.2	0	---	4
1913											
Jan. 19	R.	EII			-----			57.1	0	---	2
Dec. 13	R.	EI			-----			58.5	0	---	--
20	R.	WI			-----			59.3	0	---	--
26	Fn.	WI			-----			58.4	0	---	4
1914											
Mar. 12	Fn.	WI			-----			58.3	0	---	3½
14	Hd.	WI			-----			59.1	I	---	4
26	Fn.	EI			-----			56.7	0	---	4
1917											
Mar. 9	Fn.	WI			-----			57.4	0	---	4
19	Fn.	EI			-----			58.3	I	---	3
Apr. 3	Hd.	WI			-----			56.6	I	---	3½
10	Fn.	WI			-----			58.2	0	---	4
1918											
Mar. 7	Fn.	EII			-----			55.7	0	---	4
15	Fn.	WII			-----			56.6	I	---	3½
18	Wy.	WII			-----			58.0	0	---	4½
28	Fn.	WII			-----			56.9	0	---	3½
Apr. 2	Fn.	EII			-----			57.7	0	---	3½
15	Fn.	EII			-----			58.6	0	---	3
Mean	1915.21		8	0	-----	−39	44	57.75			
Corr					-----			+0.31			

Lacaille 3127

			h	m	s	°	′	″			
1912											
Nov. 16	R.	EII	8	0	------	−25	26	37.02	0	7.5	2
Dec. 12	R.	EII			45.676			38.00	0	7.0	2½
13	Fn.	EII			45.706			39.12	0	7.3	4
22	R.	WII			45.734			37.10	0	7.5	3
28	R.	WII			45.616			36.89	0	7.0	3
1913											
Nov. 22	R.	WI			45.630			37.29	0	6.0	3
24	Hd.	WI			45.682			37.50	0	6.5	3½
1914											
Jan. 5	Hd.	EI			45.705			38.24	0	7.5	3
9	R.	EI			45.687			37.81	0	---	4
Mean	1913.46		8	0	45.680	−25	26	37.66			
	1913.40										
Corr					−0.081			−0.03			

Weisse$_1$ VII 1720

			h	m	s	°	′	″			
1912											
Jan. 16	R.	WII	8	1	13.948	−0	18	58.79	0	6.0	3
19	Fn.	WII			13.895			57.49	0	6.8	--
24	R.	EII			13.965			57.94	0	7.0	1½
27	R.	EII			13.930			57.82	0	7.0	4
1915											
Nov. 7	Hd.	EI			13.937			58.30	0	---	2
15	Wy.	WI			13.957			58.39	0	6.5	3
16	Hd.	WI			13.971			58.86	0	7.0	2
29	Wy.	EI			13.945			57.33	0	7.0	3
30	Hd.	EI			13.962			58.85	0	6.5	3
Mean	1914.18		8	1	13.946	−0	18	58.20			
Corr					−0.081			−0.18			

27 Lyncis

			h	m	s	°	′	″				
			8	1	41.672	+51	46	1.01				
1912												
Dec. 16	Fn.	EII			−0.109			−0.44	0	5.3	1½	
19	R.	EII			−0.126			+0.14	I	4.9	1½	
27	Fn.	WII			−0.140			+0.05	0	5.0	3½	
30	Fn.	WII			−0.116			+0.37	0	5.0	2½	
1913												
Nov. 4	Fn.	EI			−0.205			+0.05	0	5.0	2	
5	R.	EI			−0.170			−0.38	I	3.9	2	
10	Hd.	WI			−0.094			+0.19	0	---	2	
17	Hd.	WI			−0.081			+0.08	I	4.9	3	
1915												
Feb. 10	Hd.–An.	EI			-----			−0.13	0	---	2	R.
17	Fn.–Wy.	EI			-----			−0.52	0	---	2	R.
18	Hd.–An.	EI			-----			−0.17	I	4.4	2½	
19	Fn.–Wy.	EI			-----			−0.29	0	5.0	2	
20	An.–Hd.	WI			-----			−0.02	0	---	2	R.
21	An.–Hd.	WI			-----			−0.29	0	---	3	
Mar. 1	Wy.–Fn.	WI			-----			+0.16	I	4.4	2½	
2	Wy.–Fn.	WI			-----			−0.11	0	---	--	R.

1915				s	″				
Mar. 8	Wy.–Fn.	WI		-----	+0.06	0	---	--	R.
9	Wy.–Fn.	WI		-----	+0.11	0	---	3	R.
1916									
Mar. 23	Hd.–Wy.	WI		-----	−0.39	0	---	2	R.
24	Hd.–Wy.	WI		-----	+0.04	0	6.0	3	
31	Hd.–Wy.	EI		-----	−0.05	0	---	2	R.
Apr. 10	Hd.–Wy.	EI		-----	+0.33	I	4.4	2	
Mean		1913.42		−0.130	−0.01				
		1914.32							
Corr				−0.081	−0.29				

B. D.+38° 1861

				h	m	s	°	′	″			
1917												
Mar. 6	Fn.	WI		8	1	-----	+38	50	26.48	0	7.5	1½
8	Wy.	WI				-----			27.02	0	---	3½
12	Hd.	EI				-----			26.13	0	7.5	2
15	Wy.	EI				-----			26.89	0	7.5	3
Mean		1917.19		8	1	-----	+38	50	26.63			
Corr						-----			−0.27			

Cape 1850, 1405

				h	m	s	°	′	″			
1913												
Feb. 7	Fn.	WII		8	3	19.812	−20	17	38.52	0	6.0	3½
8	Hd.	WII				19.772			39.06	0	6.0	2
18	Hd.	EII				19.740			38.10	0	6.0	3
19	Fn.	EII				19.738			38.15	0	6.4	3
Nov. 20	Hd.	WI				19.776			38.07	0	6.0	3½
21	Fn.	WI				19.801			38.25	0	6.5	2½
Dec. 3	R.	EI				19.858			37.89	0	5.5	3
5	R.	EI				19.887			38.66	0	5.5	3
Mean		1913.52		8	3	19.798	−20	17	38.34			
Corr						−0.081			−0.08			

ρ Argûs

				h	m	s	°	′	″			
				8	3	42.628	−24	2	39.15			
1912												
Feb. 2	Hd.	WII				−0.026			−0.46	I	2.9	3
17	R.	EII				+0.050			−0.81	0	---	4
23	Hd.	WII				+0.011			−0.78	I	2.9	3
Mar. 9	R.	EII				+0.102			−0.67	I	3.9	2½
1915												
Dec. 2	Hd.	EI				+0.072			−0.28	I	2.9	3
4	Fn.	EI				+0.045			−0.01	I	3.4	3½
8	Wy.	WI				+0.080			−1.20	I	3.4	3½
9	Fn.	WI				+0.079			−1.56	I	2.9	3
Mean		1914.04				+0.052			−0.72			
Corr						−0.081			−0.04			

3 H. Ursæ Majoris

				h	m	s	°	′	″			
				8	3	52.147	+68	44	24.24			
1912												
Mar. 7	Fn.	WII				+0.10			+0.29	0	5.7	2
10	Fn.	EII				−0.02			+0.95	0	5.3	2
13	Fn.	EII				−0.05			+0.20	0	5.7	2½
25	Fn.	WII				+0.08			+0.42	0	5.8	2
1915												
Nov. 1	Hd.	EI				+0.07			+0.60	0	6.0	3½
5	Fn.	EI				0.00			+0.33	0	5.5	2½
9	Wy.	WI				+0.08			+1.11	I	4.9	2
10	Hd.	WI				−0.04			+0.12	0	6.0	3
Mean		1914.02				+0.028			+0.50			
Corr						−0.081			−0.34			

3 H. Ursæ Majoris s. p.

				h	m	s	°	′	″			
				8	3	52.147	+68	44	24.24			
1912												
Sept. 17	R.	WII				−0.02			−0.05	0	6.5	3½
20	Hd.	WII				−0.10			+0.22	0	---	4
28	R.	EII				+0.03			+0.15	0	---	--
29	R.	EII				−0.02			−0.49	0	---	5
30	Hd.	EII				−0.13			+0.52	0	6.0	3
1914												
July 31	Fn.	EI				−0.11			−0.61	0	---	4
Aug. 15	Fn.	WI				+0.03			−0.96	0	6.5	3
17	Fn.	WI				−0.11			−1.80	0	6.5	3½
22	An.	WI				----			−1.38	0	6.0	3
30	Wy.	WI				+0.08			−0.35	0	6.5	4
Sept. 8	Wy.	EI				+0.01			−0.63	0	6.0	3½
Mean		1913.68				−0.034			−0.49			
		1913.77										
Corr						−0.081			+0.65			

Fedorenko 1261

				h	m	s	°	′	″			
1913												
Feb. 13	R.	WII		8	4	15.574	+53	30	43.18	0	7.5	2
14	Fn.	WII				15.579			43.46	0	6.7	2½
25	Hd.	EII				15.568			43.03	0	6.7	2
28	Fn.	EII				15.630			43.38	0	7.5	4
Mar. 5	Fn.	EII				15.672			42.63	0	---	2
Dec. 20	R.	WI				15.567			43.15	0	7.0	1½
26	Fn.	WI				15.621			42.18	0	7.0	2
1914												
Jan. 15	Hd.	EI				15.537			42.60	0	7.0	3
Feb. 7	Hd.	EI				15.604			41.92	0	7.0	2
Mean		1913.54		8	4	15.595	+53	30	42.84			
Corr						−0.081			−0.30			

Weisse$_2$ VII 1678

				h	m	s	°	′	″			
1913												
Jan. 14	R.	WII		8	4	20.310	+35	43	29.44	0	7.0	1½
18	R.	EII				20.268			30.63	0	6.0	2
19	R.	EII				20.259			30.44	0	7.0	2
Feb. 6	R.	WII				20.303			29.81	0	7.5	2
Dec. 29	Hd.	WI				20.325			29.92	0	6.5	2
30	Fn.	WI				20.280			29.95	0	7.0	2
1914												
Jan. 5	Hd.	EI				20.301			29.39	0	7.0	2
8	Hd.	EI				20.235			29.43	0	7.0	3
Mean		1913.53		8	4	20.285	+35	43	29.88			
Corr						−0.081			−0.26			

ψ Cancri

				h	m	s	°	′	″			
1912												
Feb. 8	Fn.	EII		8	5	2.092	+25	46	51.61	0	5.6	2½
9	Hd.	EII				2.113			50.64	0	6.0	--
27	Hd.	WII				2.084			51.07	0	6.0	--
28	R.	WII				2.048			51.25	0	6.5	3
1915												
Dec. 22	Fn.	WI				2.049			50.64	0	6.0	2½
23	Hd.	WI				2.061			50.40	0	6.0	3
1916												
Jan. 3	Wy.	EI				2.077			50.13	0	6.0	3
7	Wy.	EI				2.107			49.49	0	6.0	2½
Mean		1914.06		8	5	2.079	+25	46	50.65			
Corr						−0.081			−0.24			

Oeltzen 8668

				h	m	s	°	′	″			
1912												
Mar. 16	Fn.	EII		8	5	37.825	+49	13	35.07	0	6.8	1½
17	R.	EII				37.873			34.90	0	7.5	2½
26	Hd.	WII				37.833			35.79	0	7.0	2
30	R.	WII				37.853			36.06	0	---	2

1915			h	m	s	°	′	″			
Nov. 17	Fn.	WI			37.840			35.47	0	7.0	2
24	Wy.	EI			37.844			34.78	0	6.5	2½
27	Wy.	EI			37.832			34.71	0	7.0	2
Dec. 6	Hd.	WI			37.814			35.07	0	7.0	2
Mean 1914.06			8	5	37.839	+49	13	35.23			
Corr					−0.081			−0.29			

Lalande 15970

1913			h	m	s	°	′	″			
Mar. 6	Hd.	EII	8	5	55.619	+14	53	46.03	0	6.2	3
7	Fn.	EII			55.610			46.02	0	6.0	1½
17	Fn.	WII			55.599			46.43	0	6.6	2½
18	Hd.	WII			55.604			46.18	0	6.5	3
1914											
Jan. 17	Wy.	WI			55.652			46.32	0	6.0	3
Feb. 17	Wy.	WI			55.573			46.35	0	6.0	3
26	Fn.	EI			55.591			47.09	0	6.5	2
27	Wy.	EI			55.579			46.25	0	6.5	2
Mar. 3	Wy.	WI			55.656			46.03	0	6.0	3
4	Hd.	WI			55.591			46.23	0	6.5	3
Mean 1913.76			8	5	55.607	+14	53	46.29			
Corr					−0.081			−0.22			

Bradley 1176

1912			h	m	s	°	′	″			
Jan. 16	R.	WII	8	6	29.508	−13	32	2.55	0	5.5	4
20	R.	WII			29.524			2.97	0	6.0	2½
24	R.	EII			29.568			2.55	0	6.5	3
27	R.	EII			29.509			2.61	0	6.5	4
1915											
Nov. 7	Hd.	EI			29.463			2.46	0	6.0	3½
15	Wy.	WI			29.537			2.62	0	6.0	3
16	Hd.	WI			29.519			2.53	0	6.0	3
22	Hd.	EI			29.490			2.96	0	6.5	3
Mean 1913.96			8	6	29.515	−13	32	2.66			
Corr					−0.081			−0.12			

Piazzi VII 311

1912			h	m	s	°	′	″			
Dec. 19	R.	EII	8	6	40.184	+56	43	23.47	0	6.0	2
21	R.	EII			40.153			23.21	0	---	1½
30	Fn.	WII			40.133			22.52	0	6.0	3
1913											
Jan. 3	Fn.	WII			40.231			22.36	0	---	---
Nov. 22	R.	WI			40.208			22.38	0	5.5	1½
24	Hd.	WI			40.281			22.66	0	6.0	2
Dec. 12	Fn.	EI			40.130			21.95	0	6.0	3½
13	R.	EI			40.130			21.67	0	6.0	3½
Mean 1913.46			8	6	40.181	+56	43	22.53			
Corr					−0.081			−0.31			

γ Argûs

			h	m	s	°	′	″			
			8	6	-----	−47	4	15.97			
1913											
Dec. 18	Hd.	WI			-----			−6.7	0	---	5
1914											
Mar. 24	Wy.	EI			-----			−3.4	0	---	4
1916											
Feb. 7	Wy.	EI			-----			−2.6	0	---	5
Mean 1914.76					-----			−4.23			
Corr					-----			+1.39			

Bradley 1177

1912			h	m	s	°	′	″			
Mar. 31	Hd.	WII	8	7	2.954	−12	39	34.08	0	5.5	3
Apr. 3	R.	WII			2.916			33.87	0	5.0	3½
4	Fn.	EII			3.012			34.26	0	---	2
5	Hd.	EII			3.032			34.61	0	---	2

1916			h	m	s	°	′	″			
Jan. 8	Fn.	EI			2.957			34.42	0	5.5	3½
14	Hd.	EI			2.984			34.00	0	5.5	3
Feb. 9	Hd.	WI			3.011			34.41	0	---	4
11	Fn.	WI			3.003			34.57	0	6.0	3½
15	Fn.	WI			3.026			34.39	0	---	3
Mean 1914.38			8	7	2.988	−12	39	34.29			
Corr					−0.081			−0.12			

ζ Cancri *mean*[1]

			h	m	s	°	′	″			
			8	7	3.146	+17	55	11.18			
1912											
Nov. 16	R.	EII			-----			−0.52	0	---	--
Dec. 12	R.	EII			−0.034			+0.10	0	---	2½
16	Fn.	EII			0.000			−1.25	0	5.0	2
22	R.	WII			+0.001			+0.04	0	5.5	2
28	R.	WII			−0.021			−0.31	0	---	2
1913											
Nov. 5	R.	EI			−0.009			−1.93	I	4.4	2
10	Hd.	WI			+0.023			−0.59	0	---	3
17	Hd.	WI			+0.024			−0.54	I	4.4	3
Dec. 3	R.	EI			−0.026			−0.67	0	---	2
Mean 1913.42					−0.005			−0.63			
1913.36											
Corr					−0.081			−0.23			

Groombridge 1391

1912			h	m	s	°	′	″			
Mar. 17	R.	EII	8	7	12.06	+82	42	41.85	0	7.0	3
22	Hd.	EII			12.08			41.33	0	6.0	2
25	Fn.	WII			12.38			41.24	0	---	--
26	Hd.	WII			12.23			42.16	0	6.8	2
1915											
Dec. 2	Hd.	EI			12.16			41.25	0	6.5	2
4	Fn.	EI			12.29			42.47	0	6.5	3
10	Hd.	WI			12.63			42.26	0	7.0	2
21	Hd.	WI			12.50			41.71	0	7.0	3
Mean 1914.08			8	7	12.291	+82	42	41.78			
Corr					−0.081			−0.38			

Groombridge 1391 s. p.

1912			h	m	s	°	′	″			
July 26	R.	WII	8	7	12.61	+82	42	39.49	0	7.5	2
27	Fn.	WII			12.14			40.62	0	---	--
Aug. 3	R.	EII			12.20			40.69	0	8.0	3
5	Fn.	EII			12.11			40.68	0	---	3½
1914											
June 29	Fn.	WI			12.11			41.12	0	6.5	3½
30	Hd.	WI			12.08			40.35	0	7.5	3½
July 20	Fn.	EI			11.84			40.98	0	5.0	3½
22	Fn.	EI			11.83			41.16	0	---	3
Mean 1913.55			8	7	12.115	+82	42	40.64			
Corr					−0.081			+0.46			

Bradley 1147

			h	m	s	°	′	″				
			8	8	15.736	+76	1	57.91				
1913												
Feb. 8	Hd.	WII			+0.04			+0.80	0	6.5	2	
13	R.	WII			−0.10			+1.03	0	---	2	
18	Hd.	EII			0.00			+0.98	0	6.0	2	
19	Fn.	EII			+0.12			+1.44	0	6.0	2½	
1914												
Mar. 9	Fn.	WI			+0.26			+0.41	0	---	2	
10	Wy.	WI			+0.25			+1.08	0	6.5	2½	
18	Hd.	EI			+0.29			−0.06	0	5.8	3½	
20	Wy.	EI			−0.09			+0.58	0	6.0	3	
1915												
Feb. 10	Hd.–An.	EI			----			+1.08	0	---	2	R.

[1] Triple; mean of close pair observed.

			s	"			
1915							
Feb. 17	Fn.–Wy.	EI	----	+0.49	0	--- 2	R.
18	Hd.–An.	EI	----	+1.10	0	6.0 3	
19	Fn.–Wy.	EI	----	+0.59	0	5.5 2½	
20	An.–Hd.	WI	----	+1.69	0	--- 2	R.
21	An.–Hd.	WI	----	+0.80	0	6.5 3	
Mar. 1	Wy.–Fn.	WI	----	+1.19	0	6.0 3	
2	Wy.–Fn.	WI	----	+0.27	0	--- 4½	R.
9	Wy.–Fn.	WI	----	+1.08	0	--- 3	R.
1916							
Mar. 23	Hd.–Wy.	WI	----	+1.27	0	6.0 2	
24	Hd.–Wy.	WI	----	+1.34	0	--- 2½	R.
31	Hd.–Wy.	EI	----	+0.47	0	6.0 2	
Apr. 10	Hd.–Wy.	EI	----	+1.46	0	--- 2	R.
Mean	1913.66		+0.096	+0.83			
	1914.46						
Corr			−0.081	−0.35			

Bradley 1147 s. p.

h 8 m 8 s 15.735 ° +76 ′ 1 ″ 57.91

			s	"			
1911							
June 29	Fn.	WII	−0.03	−0.32	0	5.3 --	
30	Hd.	WII	−0.02	−1.01	0	--- --	
July 3	Fn.	EII	+0.14	0.00	0	6.3 --	
5	R.	EII	−0.10	−0.27	0	--- 4	
1915							
June 19	Wy.	WI	+0.13	+0.36	0	--- 3½	
22	Wy.	EI	−0.10	+1.02	0	6.5 3½	
24	Fn.	EI	−0.11	−0.24	0	6.0 2½	
July 2	Hd.	WI	+0.05	−0.04	0	--- 4	
Mean	1913.49		−0.005	−0.06			
Corr			−0.081	+0.52			

Groombridge 1119

h 8 m 8 s 40.84 ° +88 ′ 54 ″ 16.80

			s	"	"			
1911								
Oct. 23	*Fn.*	*WII*	*+3.28*	*+0.35*	*+0.35*	*0*	--- --	
Nov. 2	R.	EII	----		+0.20	0	--- --	R.
2	R.	EII	−1.80		+0.60	0	--- --	
10	Fn.	EII	----		+0.46	0	--- --	R.
10	Fn.	EII	−0.20		+0.11	0	--- --	
1912								
Oct. 20	*Hd.*	*EII*	*+1.53*	*+0.44*	*+0.47*	*0*	--- *4*	
25	Hd.	EII	----		+0.56	0	--- 3½	R.
25	Hd.	EII	+0.71		+0.33	0	--- 3½	
26	R.	EII	----		+0.15	0	--- 2	R.
26	R.	EII	+1.38		+0.30	0	6.5 2	
27	Hd.	EII	----		+0.24	0	--- 4	R.
27	Hd.	EII	−0.40		+0.63	0	--- 4	
28	Hd.	EII	----		+0.22	0	--- 2	R.
28	Hd.	EII	+0.86		−0.16	0	--- 2	
29	Hd.	EII	−1.26		+0.84	0	--- 3	
Nov. 3	Hd.	WII	----		+0.51	0	--- 3	R.
3	Hd.	WII	+0.93		+0.09	0	--- 3	
4	R.	WII	----		+0.31	0	--- 2	R.
4	R.	WII	−1.15		−0.03	0	7.0 2	
8	Hd.	WII	----		+0.63	0	--- 3	R.
8	Hd.	WII	+1.48		−0.64	0	--- 3	
1914								
Oct. 27	Fn.	EI	+1.44		----	0	7.0 3½	
29	An.	EI	−0.34		−0.78	0	7.0 3½	
30	Fn.	EI	----		−0.08	0	--- 3	R.
30	Fn.	EI	+1.87		+0.02	0	--- 3	
Nov. 1	Wy.	WI	−0.17		----	0	7.0 3½	
2	Hd.	WI	----		+0.62	0	--- 3	R.
2	Hd.	WI	+0.58		−0.32	0	7.5 3	
3	Fn.	WI	−0.73		+0.12	0	--- 4	
4	Wy.	WI	+0.87		+1.74	0	7.5 4	
1915								
Feb. 10	Hd.–An.	EI	----		−0.11	0	7.5 2½	
17	Fn.–Wy.	EI	----		+0.52	0	7.0 2½	
18	Hd.–An.	EI	----		−0.47	0	--- 3	R.

			s	"	"			
1915								
Feb. 19	Fn.–Wy.	EI	----		−0.21	0	--- --	R.
20	An.–Hd.	WI	----		+0.13	0	8.0 2½	
21	An.–Hd.	WI	----		+0.76	0	--- 3½	R.
Mar. 1	Wy.–Fn.	WI	----		+0.59	0	--- 3½	R.
8	Wy.–Fn.	WI	----		−0.15	0	7.0 3	
9	Wy.–Fn.	WI	----		−0.25	0	7.0 3	
Oct. 22	*Hd.*	*WI*	*+2.09*	*+0.36*	*+0.46*	*0*	--- --	
23	*Wy.*	*WI*	*+2.36*	*+0.01*	*−0.12*	*0*	--- *3½*	
25	Wy.	WI	----		+0.05	0	--- 3	R.
25	Wy.	WI	+1.43		+0.74	0	7.0 3	
27	Fn.	WI	----		+0.19	0	--- 3	R.
27	Fn.	WI	+0.35		−0.04	0	7.0 3	
29	Hd.	EI	----		−0.50	0	--- 3	R.
29	Hd.	EI	−0.88		+1.12	0	7.5 3½	
30	Fn.	EI	+3.01		+0.47	0	7.5 3	
1916								
Mar. 23	Hd.–Wy.	WI	----		+0.61	0	--- 2½	R.
24	Hd.–Wy.	WI	----		+0.65	0	--- 3	
31	Hd.–Wy.	EI	----		−0.18	0	--- 2	R.
Apr. 10	Hd.–Wy.	EI	----		+0.27	0	6.5 2	
Oct. 23	*Hd.*	*WI*	*−1.40*	*+0.07*	*+0.04*	*0*	--- *3*	
25	*Wy.*	*EI*	*+0.09*	*−0.90*	*−1.00*	*0*	--- *3½*	
26	Hd.	EI	−0.83		−0.23	0	7.0 3	
Nov. 2	Fn.	EI	+0.89		+0.10	0	7.0 3	
Mean	1914.22		+0.35		+0.22			
	1914.49							
Corr			−0.08		−0.41			

Groombridge 1119 s. p.

h 8 m 8 s 40.84 ° +88 ′ 54 ″ 16.80

			s	"	"			
1911								
Oct. 24	Fn.	WII	----		−1.46	0	--- --	R.
24	Fn.	WII	+1.54		−0.16	0	--- --	
Nov. 2	R.	EII	----		−1.63	0	--- 3	R.
2	R.	EII	+1.01		−0.91	0	7.0 3	
3	R.	EII	----		−0.12	0	--- 1	R.
3	R.	EII	+1.90		+0.12	0	7.0 1	
1912								
Oct. 21	Hd.	EII	----		−0.25	0	--- 3	R.
21	Hd.	EII	−0.72		----	0	--- 3	
26	Hd.	EII	+0.10		−0.20	0	--- 4	
27	R.	EII	----		−0.69	0	--- 3	R.
27	R.	EII	−0.76		−0.43	0	--- 3	
28	Hd.	EII	----		−0.54	0	--- 3	R.
28	Hd.	EII	+1.61		−0.62	0	--- 3	
29	Hd.	EII	----		−0.64	0	--- 3½	R.
29	Hd.	EII	−0.54		−0.06	0	--- 3½	
30	Hd.	EII	----		−1.51	0	--- 3½	R.
30	Hd.	EII	+2.70		−0.73	0	--- 3½	
Nov. 3	Hd.	WII	----		−1.53	0	--- 2½	R.
3	Hd.	WII	−1.90		+0.41	0	--- 2½	
5	Hd.	WII	----		−1.05	0	--- 3	R.
5	Hd.	WII	+2.89		−0.12	0	--- 3	
8	*Hd.*	*WII*	*+0.53*	*−0.37*	*−0.45*	*0*	--- *3½*	
1914								
Oct. 20	Hd.	EI	+0.23		−0.25	0	--- 3	
22	An.	EI	----		−0.41	0	7.5 3½	
23	Wy.	EI	+2.59		−0.11	0	7.5 3	
28	Fn.	EI	+1.53		----	0	--- 3½	
30	An.	EI	----		−0.05	0	--- 3½	
31	Fn.	EI	----		−0.81	0	--- 3	R.
31	Fn.	EI	+0.76		−1.15	0	7.0 3	
Nov. 2	Wy.	WI	+0.54		−0.91	0	--- 3½	
3	Hd.	WI	----		−0.69	0	--- 3	R.
3	Hd.	WI	+1.65		−0.62	0	7.5 3	
4	Fn.	WI	+0.35		−0.96	0	--- 3	
5	Wy.	WI	+1.76		−0.38	0	--- 3½	
1915								
Oct. 23	Fn.	WI	----		−1.06	0	--- 3	R.
23	Fn.	WI	+2.25		−0.69	0	7.5 3	
25	Hd.	WI	----		−0.34	0	--- 3	R.
25	Hd.	WI	+0.43		−1.08	0	7.5 2½	
27	Wy.	WI	----		−1.08	0	--- 3½	R.
27	Wy.	WI	+0.69		−1.31	0	7.5 3½	
28	Hd.	EI	----		−0.70	0	--- 3	R.

				s	"				
1915									
Oct. 28	Hd.	EI		+0.93	−0.32	0	7.5	3	
29	Fn.	EI		----	−1.75	0	---	3½	R.
29	Fn.	EI		−0.53	−0.11	0	7.5	3½	
1916									
Oct. 24	Hd.	WI		+0.92	−0.46	0	7.5	3	
26	Wy.	EI		+1.38	−0.41	0	7.5	3	
27	Hd.	EI		+1.03	−0.02	0	---	3	
31	Fn.	EI		−0.58	+0.62	0	---	3	
Mean		1914.40		+0.85	−0.40				
		1914.47							
Corr				−0.08	+0.42				

20 Puppis

				h m s	° ′ ″				
				8 9 11.763	−15 30 59.53				
1913									
Feb. 14	Fn.	WII		+0.084	−1.66	0	5.4	3	
15	Hd.	WII		+0.009	−0.55	0	5.5	2½	
23	R.	EII		+0.001	+0.06	0	6.0	3	
25	Hd.	EII		−0.008	+0.06	I	4.4	2	
28	Fn.	EII		−0.016	−0.90	0	---	4½	
Nov. 20	Hd.	WI		−0.009	−0.17	0	6.0	3	
21	Fn.	WI		+0.063	−0.08	0	---	2½	
Dec. 5	R.	EI		+0.061	−0.44	0	5.5	3	
1914									
Jan. 8	Hd.	EI		+0.015	+0.18	0	---	3	
Mean		1913.49		+0.022	−0.39				
Corr				−0.081	−0.11				

Bradley 1160

				h m s	° ′ ″				
1913									
Mar. 3	Fn.	EII		8 10 46.33	+72 41 15.58	0	---	3	
7	Fn.	EII		46.37	15.51	0	6.0	1½	
17	Fn.	WII		46.16	15.23	0	6.5	2	
18	Hd.	WII		46.32	15.43	0	6.2	3	
Dec. 29	Hd.	WI		46.35	15.42	0	6.5	2	
30	Fn.	WI		46.20	15.22	0	7.0	2½	
1914									
Jan. 9	R.	EI		46.30	15.42	0	---	3½	
15	Hd.	EI		46.27	15.40	0	6.5	3	
Mean		1913.60		8 10 46.288	+72 41 15.40				
Corr				−0.081	−0.35				

Bradley 1160 S. P.

				h m s	° ′ ″				
1912									
Sept. 30	Hd.	EII		8 10 46.13	+72 41 15.08	0	6.2	3	
Oct. 1	Hd.	EII		46.32	14.71	0	7.5	3	
9	Hd.	WII		46.36	15.45	0	6.0	4	
10	Hd.	WII		46.27	14.37	0	---	4½	
1914									
Aug. 30	Wy.	WI		46.37	15.16	0	6.5	3½	
31	Fn.	WI		46.20	14.07	0	6.0	3	
Sept. 19	Wy.	EI		46.23	14.39	0	6.5	3½	
20	An.	EI		-----	14.49	0	7.0	3½	
Mean		1913.58		8 10 46.269	+72 41 14.72				
		1913.73							
Corr				−0.081	+0.56				

β Cancri

				h m s	° ′ ″				
				8 11 38.112	+9 27 48.43				
1911				s	″	″			
Oct. 4	*Hd.*	*EII*		*+0.001*	*−0.33*	*−0.32*	*0*	---	*2½*
5	*Hd.*	*EII*		*+0.045*	----	----	*0*	---	*2*
18	*Hd.*	*WII*		-----	*−0.38*	*−0.36*	*0*	---	*3*
1912									
Jan. 9	R.	EII		+0.011		----	I	3.4	3
16	R.	WII		+0.028		----	I	3.4	3
19	Fn.	WII		+0.008		----	I	2.9	2
20	R.	WII		+0.034		----	I	3.4	1½
1912				s	″	″			
Jan. 27	R.	EII		−0.025		----	I	3.9	2½
Mar. 7	Fn.	WII		+0.059		+0.01	I	3.1	2
9	R.	EII		+0.058		+0.74	I	4.4	2½
16	Fn.	EII		+0.045		−0.32	I	3.1	1½
18	Fn.	EII		+0.034		−0.68	0	---	3
30	R.	WII		+0.008		----	0	---	1½
Apr. 3	R.	WII		+0.024		−0.02	I	3.4	3
5	Hd.	EII		+0.049		−0.43	I	---	--
6	R.	EII		+0.042		----	0	---	2½
8	Fn.	WII		+0.053		+0.27	I	3.4	2
9	Hd.	WII		+0.060		−0.36	I	2.9	3
11	Fn.	EII		+0.058		−0.77	I	3.5	3
Sept. 15	*Hd.*	*WII*		-----	*−1.01*	*−0.97*	*0*	---	*3*
19	*Hd.*	*WII*		*+0.064*	*−0.35*	*−0.36*	*0*	---	*2*
27	*R.*	*EII*		*+0.042*	*−0.32*	*−0.30*	*0*	---	--
Nov. 16	R.	EII		-----		+0.19	II	3.1	--
Dec. 16	Fn.	EII		+0.056		−0.23	I	3.7	--
19	R.	EII		+0.062		----	I	3.9	1½
1913									
Jan. 3	Fn.	WII		+0.052		−0.66	0	---	--
18	R.	EII		+0.054		----	I	2.9	2
29	Fn.	WII		+0.054		−0.26	I	3.5	2
Feb. 6	R.	WII		+0.022		−0.20	I	3.9	2½
Mar. 5	Fn.	EII		+0.036		−0.09	I	3.2	2
11	Hd.	EII		+0.028		−0.17	I	---	2
12	Fn.	EII		+0.048		+0.08	0	---	2
20	R.	WII		+0.050		----	I	2.9	2½
21	Fn.	WII		+0.065		----	I	3.6	3½
24	Fn.	EII		+0.063		−0.33	I	3.9	3½
28	Fn.	EII		+0.077		−0.14	I	3.4	1½
Nov. 4	Fn.	EI		+0.040		+0.60	I	3.4	3
5	R.	EI		+0.049		----	II	2.6	2
Dec. 18	Hd.	WI		+0.058		−0.36	I	3.4	2
19	Fn.	WI		+0.038		+0.28	I	3.9	2
20	R.	WI		+0.047		−0.27	I	3.9	2
26	Fn.	WI		+0.048		+1.09	I	3.9	2
1914									
Jan. 17	Wy.	WI		+0.012		−0.14	I	2.9	3½
Feb. 7	Hd.	EI		+0.081		−0.45	I	3.4	2
17	Wy.	WI		+0.050		−0.43	I	3.9	3
26	Fn.	EI		+0.062		----	I	---	2
27	Wy.	EI		+0.100		+0.18	I	3.9	3
Mar. 3	Wy.	WI		+0.052		−0.68	I	3.4	2½
4	Hd.	WI		+0.034		−0.45	I	3.4	3
12	Fn.	WI		+0.060		−0.34	I	3.9	2
16	Fn.	WI		+0.051		+0.38	0	---	3
22	Wy.	EI		+0.014		+0.70	I	3.9	3
23	Fn.	EI		+0.016		−0.37	I	3.9	2
24	Wy.	EI		+0.049		+0.06	I	3.4	2
25	Hd.	EI		+0.033		−0.21	0	---	3
26	Fn.	EI		+0.016		+0.40	I	3.9	2½
Apr. 4	Hd.	WI		+0.044		−0.65	0	---	2
Sept. 4	*Wy.*	*WI*		-----	*−1.01*	*−0.90*	*0*	---	*4*
8	*Fn.*	*EI*		*−0.003*	*−0.74*	*−0.64*	*0*	---	*3*
13	*Fn.*	*EI*		*+0.048*	*−1.97*	*−1.94*	*0*	---	*3½*
17	*An.*	*EI*		-----	*−2.15*	*−2.13*	*0*	---	--
22	*An.*	*EI*		*+0.070*	*−0.21*	*−0.14*	*0*	---	--
23	*Hd.*	*EI*		-----	*+0.07*	*+0.12*	*0*	---	*3*
25	*An.*	*EI*		*−0.019*	*−0.80*	*−0.80*	*0*	---	*3½*
Oct. 19	*An.*	*EI*		-----	*+0.10*	*+0.11*	*I*	---	*2½*
29	An.	EI		+0.047		----	I	3.4	3
1915									
Mar. 30	Wy.	EI		+0.033		----	0	---	2½
Sept. 9	*Hd.*	*WI*		*+0.056*	*−0.52*	*−0.52*	*0*	---	*2½*
12	*Hd.*	*EI*		*+0.096*	*−0.47*	*−0.45*	*0*	---	*2½*
13	*Wy.*	*EI*		*+0.025*	*+0.22*	*+0.24*	*0*	---	*3½*
14	*Hd.*	*EI*		*+0.049*	*−0.49*	*−0.49*	*0*	---	*3*
15	*Wy.*	*EI*		*+0.066*	*+0.53*	*+0.56*	*0*	---	*3½*
16	*Hd.*	*EI*		-----	*−0.05*	*0.00*	*0*	---	*3*
19	*Hd.*	*EI*		*+0.080*	*−0.28*	*−0.27*	*0*	---	*2*
22	*Hd.*	*EI*		*+0.026*	*−0.11*	*−0.12*	*0*	---	*3*
23	*Wy.*	*EI*		*+0.019*	*+0.07*	*+0.14*	*0*	---	*3*
24	*Wy.*	*EI*		*+0.045*	*+0.77*	*+0.77*	*0*	---	*3*
26	*Hd.*	*EI*		*+0.020*	*−0.27*	*−0.22*	*0*	---	*3*
27	*Fn.*	*EI*		*+0.019*	*+0.13*	*+0.17*	*0*	---	*2½*
Oct. 3	*Wy.*	*WI*		*+0.040*	*−0.40*	*−0.39*	*0*	---	*3*
Dec. 6	Hd.	WI		+0.024		----	I	3.4	2
8	Wy.	WI		+0.047		----	I	3.4	2½

			s	″			
1915							
Dec. 9	Fn.	WI	+0.018	----	I	3.4	2½
10	Hd.	WI	+0.035	----	I	3 4	2
23	Hd.	WI	+0.054	−0.21	I	3.4	3
1916							
Jan. 3	Wy.	EI	+0.045	−0.27	I	3.9	3½
7	Wy.	EI	+0.046	−0.43	I	2.9	3
8	Fn.	EI	+0.072	+0.29	I	---	3½
14	Hd.	EI	+0.007	+0.39	I	3.4	3
Feb. 7	Wy.	EI	+0.009	+0.36	I	3.4	3
15	Fn.	WI	+0.029	+0.19	0	---	3
Mean	1913.78		+0.042	−0.08			
	1913.82						
Corr			−0.081	−0.21			

B. D+39° 2082

			h m	° ′ ″			
1917							
Mar. 6	Fn.	WI	8 11	+39 4 45.89	0	7.5	1½
8	Wy.	WI	-----	46.40	0	8.5	3½
12	Hd.	EI	-----	45.92	0	8.0	2
15	Wy.	EI	-----	45.14	0	8.0	3
Mean	1917.19		8 11 -----	+39 4 45.84			
Corr			-----	−0.27			

Weisse$_1$ VIII 228

			h m s	° ′ ″			
1912							
Mar. 10	Fn.	EII	8 12 34.312	+4 29 51.03	0	6.8	3
13	Fn.	EII	34.334	50.61	0	7.4	3½
30	R.	WII	34.301	50.31	0	---	--
31	Hd.	WII	34.321	50.38	0	7.0	2
1915							
Nov. 16	Hd.	WI	34.347	50.26	0	6.5	3
17	Fn.	WI	34.318	49.87	0	6.5	3
22	Hd.	EI	34.318	50.63	0	---	2
24	Wy.	EI	34.305	50.47	0	6.5	2½
Mean	1914.05		8 12 34.320	+4 29 50.44			
Corr			−0.081	−0.19			

Bradley 1184

			h m s	° ′ ″			
1912							
Dec. 19	R.	EII	8 13 15.562	−16 0 21.51	0	7.0	2½
22	R.	WII	15.616	21.56	0	7.5	2½
28	R.	WII	15.553	21.95	0	7.0	2½
1913							
Jan. 18	R.	EII	15.573	20.51	0	6.0	2½
Nov. 5	R.	EI	15.592	21.47	0	6.0	2
10	Hd.	WI	15.561	21.32	0	---	3½
17	Hd.	WI	15.517	20.99	0	6.0	3½
Dec. 3	R.	EI	15.601	21.92	0	6.5	3½
Mean	1913.44		8 13 15.572	−16 0 21.40			
Corr			−0.081	−0.11			

Weisse$_1$ VIII 313

			h m s	° ′ ″			
1913							
Feb. 13	R.	WII	8 14 56.347	−9 53 4.43	0	6.5	2
14	Fn.	WII	56.265	5.00	0	6.0	3
18	Hd.	EII	56.302	4.73	0	6.5	3
19	Fn.	EII	56.261	4.39	0	6.5	3
Nov. 20	Hd.	WI	56.295	4.19	0	6.5	3
21	Fn.	WI	56.310	4.85	0	---	2
Dec. 5	R.	EI	56.319	3.81	0	6.0	3½
8	Hd.	EI	56.316	4.07	0	6.5	3
Mean	1913.52		8 14 56.302	−9 53 4.43			
Corr			−0.081	−0.14			

Piazzi VIII 30

			h m s	° ′ ″			
1912							
Jan. 16	R.	WII	8 15 10.71	+60 55 1.38	0	7.0	2
19	Fn.	WII	10.67	1.45	0	---	--
24	R.	EII	10.79	1.30	0	7.0	2½
27	R.	EII	10.65	0.29	0	7.0	1½
1915							
Dec. 2	Hd.	EI	10.76	0.68	0	6.5	2
4	Fn.	EI	10.76	0.43	0	6.5	2
9	Fn.	WI	10.77	1.71	0	6.5	2
10	Hd.	WI	10.79	0.84	0	6.5	2
Mean	1913.99		8 15 10.738	+60 55 1.01			
Corr			−0.081	−0.32			

λ Cancri

			h m s	° ′ ″			
1912							
Mar. 17	R.	EII	8 15 11.177	+24 18 23.18	0	6.5	2½
22	Hd.	EII	11.204	22.23	0	---	--
25	Fn.	WII	11.176	22.58	0	5.8	2
26	Hd.	WII	11.245	22.62	0	6.0	2
1915							
Nov. 27	Wy.	EI	11.209	22.35	0	6.0	2
29	Wy.	EI	11.179	22.38	0	6.5	3
Dec. 6	Hd.	WI	11.151	22.87	0	6.2	2
8	Wy.	WI	11.208	23.04	0	6.0	2½
Mean	1914.07		8 15 11.194	+24 18 22.66			
Corr			−0.081	−0.24			

31 Lyncis

			h m s	° ′ ″			
			8 16 40.814	+43 28 38.98			
1913							
Feb. 23	R.	EII	−0.031	+0.04	I	4.4	2
25	Hd.	EII	−0.096	+0.06	I	3.9	2
28	Fn.	EII	−0.043	+0.21	0	---	3½
Mar. 17	Fn.	WII	−0.134	0.00	I	3.9	2
18	Hd.	WII	−0.114	−0.03	I	3.9	2
Dec. 12	Fn.	EI	−0.153	−0.48	0	4.5	3½
18	Hd.	WI	−0.040	−0.06	I	3.9	2
19	Fn.	WI	−0.140	+0.02	0	4.5	2½
1914							
Jan. 8	Hd.	EI	−0.171	−0.32	0	---	3
1916							
Feb. 7	Wy.	EI	−0.129	----	I	3.9	2½
1917							
Jan. 22	Wy.	EI	−0.092	----	0	---	3
25	Wy.	EI	−0.004	----	I	4.4	2
Mar. 8	Wy.	WI	−0.107	----	I	4.4	3½
12	Hd.	EI	−0.099	----	I	4.4	2
15	Wy.	EI	−0.093	----	I	4.4	3½
25	Hd.	WI	−0.087	----	I	4.4	2
28	Hd.	WI	−0.093	----	I	3.9	2½
Apr. 3	Hd.	WI	−0.092	----	I	3.9	2
1918							
Mar. 18	Wy.	WII	−0.114	----	I	3.9	2½
28	Fn.	WII	−0.106	----	0	4.5	2
Apr. 2	Fn.	EII	−0.061	----	0	---	3
Mean	1915.72		−0.095	−0.06			
	1913.53						
Corr			−0.081	−0.28			

d^1 Cancri

			h m s	° ′ ″			
			8 18 12.726	+18 37 18.07			
1912							
Mar. 13	Fn.	EII	−0.002	+0.42	0	6.5	3½
16	Fn.	EII	−0.001	−0.01	0	6.0	1½
30	R.	WII	+0.016	+0.94	0	---	1
31	Hd.	WII	+0.019	+0.12	0	6.0	2

				s	″				
1915									
Nov.	1	Hd.	EI	+0.031	−0.24	0	6.5	3½	
	7	Hd.	EI	+0.017	−0.50	0	...	2	
	9	Wy.	WI	+0.016	+0.71	0	6.0	2	
	10	Hd.	WI	−0.006	−0.14	0	6.2	2	
1916									
Mar.	23	Hd.–Wy.	WI	-----	−0.23	0	...	2	R.
	24	Hd.–Wy.	WI	-----	+0.95	0	6.5	3	
	31	Hd.–Wy.	EI	-----	−0.62	0	...	2	R.
Apr.	10	Hd.–Wy.	EI	-----	+0.43	0	6.0	2	
Mean			1914.04	+0.011	+0.27				
			1914.48						
Corr				−0.081	−0.23				

Weisse$_2$ VIII 323

				h	m	s	°	′	″			
1913												
Mar.	6	Hd.	EII	8	18	13.151	+32	34	59.25	0	7.0	3
	7	Fn.	EII			13.135			58.75	0	7.7	1½
	20	R.	WII			13.136			59.22	0	7.5	2
	22	Hd.	WII			13.130			58.77	0	7.0	2
Dec.	20	R.	WI			13.149			59.13	0	7.5	1½
	26	Fn.	WI			13.123			59.02	0	7.5	2
1914												
Jan.	5	Hd.	EI			13.088			58.81	0	7.5	2
	15	Hd.	EI			13.113			58.87	0	7.5	2
Mean			1913.60	8	18	13.128	+32	34	58.98			
Corr						−0.081			−0.26			

Bradley 1187

				h	m	s	°	′	″			
1913												
Jan.	14	R.	WII	8	18	59.945	+10	55	19.96	D	6.0	1½
	21	R.	EII			59.989			21.77	D	6.0	2
	22	Fn.	EII			59.984			21.30	0	6.5	2
Feb.	6	R.	WII			59.985			21.47	0	7.0	2
Dec.	29	Hd.	WI			59.970			21.42	D	6.0	2
	30	Fn.	WI			59.958			20.81	0	6.5	2
1914												
Jan.	9	R.	EI			59.970			21.24	0	6.5	3
Feb.	7	Hd.	EI			60.006			21.49	D	6.0	2½
Mean			1913.55	8	18	59.976	+10	55	21.18			
Corr						−0.081			−0.21			

Lacaille 3298

				h	m	s	°	′	″			
1913												
Mar.	20	R.	WII	8	20	6.741	−28	40	47.04	0	7.5	3½
	22	Hd.	WII			6.688			46.13	0	7.0	3
	28	Fn.	EII			6.768			46.73	0	8.0	3
	29	Hd.	EII			6.760			45.49	0	7.0	3
Nov.	4	Fn.	EI			6.811			45.23	0	7.0	4
	5	R.	EI			6.806			45.95	0	6.0	2½
	17	Hd.	WI			6.718			46.57	0	...	4½
	20	Hd.	WI			6.704			46.85	0	7.0	3
Mean			1913.55	8	20	6.750	−28	40	46.25			
Corr						−0.081			+0.01			

Bradley 1192

				h	m	s	°	′	″			
1912												
Feb.	8	Fn.	EII	8	20	44.288	+17	20	35.34	0	6.4	2½
	9	Hd.	EII			44.358			35.25	0	6.0	3
Mar.	7	Fn.	WII			44.300			35.77	0	6.5	...
	25	Fn.	WII			44.274			35.85	0	6.3	1½
1915												
Nov.	17	Fn.	WI			44.251			34.25	0	6.5	3
	27	Wy.	EI			44.247			35.12	0	6.0	2
	29	Wy.	EI			44.241			34.98	0	6.0	3
Dec.	6	Hd.	WI			44.226			34.69	0	6.0	2
Mean			1914.03	8	20	44.273	+17	20	35.16			
Corr						−0.081			−0.22			

Piazzi VIII 67

				h	m	s	°	′	″			
1912												
Dec.	30	Fn.	WII	8	21	5.174	+7	51	30.31	0	5.3	3½
1913												
Jan.	3	Fn.	WII			5.191			30.86	0	5.5	3½
	18	R.	EII			5.188			31.20	0	5.5	2½
	19	R.	EII			5.190			30.65	I	4.9	2
Nov.	21	Fn.	WI			5.196			30.25	0	...	2
	22	R.	WI			5.184			30.45	I	4.9	2
Dec.	3	R.	EI			5.207			29.99	0	5.0	3
	5	R.	EI			5.218			29.59	I	4.9	2½
Mean			1913.47	8	21	5.194	+7	51	30.41			
Corr						−0.081			−0.20			

30 Monocerotis

				h	m	s	°	′	″				
				8	21	9.856	−3	36	44.20				
1912						s		″	″				
Jan.	16	R.	WII			−0.026			−1.42	I	3.9	2½	
	19	Fn.	WII			−0.010			−0.46	I	4.4	2	
Feb.	13	Hd.	EII			+0.001			----	I	3.4	...	
	14	R.	EII			+0.035			----	I	4.4	1	
	22	R.	WII			+0.022			----	I	...	2½	
Apr.	3	R.	WII			+0.012			+0.09	I	4.4	3	
	4	Fn.	EII			+0.036			−0.19	0	...	2	
	5	Hd.	EII			−0.009			−0.62	0	...	...	
	6	R.	EII			+0.004			----	0	...	...	
	8	Fn.	WII			−0.015			−0.13	0	...	2	
	9	Hd.	WII			+0.022			−0.91	I	2.9	3	
	11	Fn.	EII			−0.001			−1.85	I	3.7	3	
Nov.	4	R.	WII			+0.019			−0.62	I	...	2	
	16	R.	EII			-----			+0.27	I	4.4	2	
Dec.	19	R.	EII			−0.031			−1.32	0	...	5	
	22	R.	WII			+0.023			−1.15	I	4.4	2½	
	28	R.	WII			+0.030			+0.32	I	4.4	2	
1913													
Jan.	27	Fn.	EII			−0.038			−0.40	0	4.0	2	
	29	Fn.	WII			+0.042			−0.84	I	3.8	2	
Feb.	12	Fn.	WII			+0.005			−1.20	I	3.9	2	
	13	R.	WII			+0.046			−0.98	0	...	2	
	23	R.	EII			+0.008			−0.43	0	...	3	
	25	Hd.	EII			+0.017			−0.32	I	3.9	2	
	28	Fn.	EII			−0.042			−0.50	0	...	3½	
Mar.	3	Fn.	EII			−0.042			−0.58	0	...	3½	
	17	Fn.	WII			+0.012			----	I	4.3	2½	
	18	Hd.	WII			+0.014			−0.92	I	3.9	2½	
Nov.	10	Hd.	WI			+0.015			−0.31	I	...	3	
	24	Hd.	WI			+0.011			−0.36	I	3.9	3	
Dec.	8	Hd.	EI			−0.025			−0.23	I	3.9	3	
	11	Hd.	EI			+0.010			−0.34	I	4.4	3	
	12	Fn.	EI			+0.009			−0.63	I	4.4	3½	
	13	R.	EI			+0.015			----	I	4.9	4	
1914													
Mar.	10	Wy.	WI			+0.020			−1.43	0	...	3½	
	12	Fn.	WI			−0.024			−0.79	I	3.9	2	
	16	Fn.	WI			−0.020			−0.33	0	...	3	
	23	Fn.	EI			−0.008			−0.28	0	...	2½	
	24	Wy.	EI			−0.010			−0.57	I	3.9	2½	
Apr.	4	Hd.	WI			−0.011			−0.74	0	...	2	
	11	Hd.	EI			−0.007			----	0	...	3	
1915													
Feb.	10	Hd.–An.	EI			-----			−0.36	I	3.9	2	
	17	Fn.–Wy.	EI			-----			+0.30	I	3.9	2½	
	18	Hd.–An.	EI			-----			−1.50	I	...	3	R.
	19	Fn.–Wy.	EI			-----			−0.95	0	...	2½	R.
	20	An.–Hd.	WI			-----			−0.54	I	4.9	2½	
	21	An.–Hd.	WI			-----			−1.16	I	...	3	R.
Mar.	1	Wy.–Fn.	WI			-----			−1.45	I	...	3	R.
	8	Wy.–Fn.	WI			-----			−1.53	I	3.4	3	
	9	Wy.–Fn.	WI			-----			−1.06	I	3.4	3½	
	30	Wy.	EI			−0.040			----	0	...	2½	
Sept.	*22*	*Hd.*	*EI*			*+0.003*			*−0.32*	*0*	...	*3*	
	26	*Hd.*	*EI*			*−0.070*			*−0.04*	*0*	...	*3*	
	27	*Fn.*	*EI*			*−0.032*			*−0.54*	*0*	...	*3*	

			s	″			
1915							
Nov. 10	Hd.	WI	+0.018	----	I	4.4	2
15	Wy.	WI	+0.062	----	I	4.4	3
16	Hd.	WI	+0.067	----	I	3.9	3½
24	Wy.	EI	−0.003	----	I	3.9	3
Dec. 23	Hd.	WI	+0.032	−1.32	0	---	3½
1916							
Jan. 8	Fn.	EI	−0.002	−0.27	0	---	3½
14	Hd.	EI	−0.032	−0.26	I	3.4	3
Feb. 7	Wy.	EI	−0.017	+0.02	I	3.9	3
15	Fn.	WI	+0.022	−0.18	0	---	3
Mean------	1913.71		+0.004	−0.59			
	1913.73						
Corr------			−0.081	−0.16			

Piazzi VIII 72

			h m s	° ′ ″			
1913							
Feb. 8	Hd.	WII	8 21 10.562	−23 45 13.96	0	6.0	3
14	Fn.	WII	10.631	14.94	0	5.5	3½
18	Hd.	EII	10.530	13.72	0	5.8	3
19	Fn.	EII	10.521	14.23	0	5.5	3
1914							
Jan. 17	Wy.	WI	10.566	13.93	0	6.0	3½
Feb. 17	Wy.	WI	10.602	14.82	0	6.0	3½
26	Fn.	EI	10.583	13.81	0	6.5	3½
Mar. 3	Wy.	WI	10.604	14.58	0	6.0	3½
22	Wy.	EI	10.567	13.68	0	6.0	3
Mean------	1913.69		8 21 10.574	−23 45 14.19			
Corr------			−0.081	−0.04			

Weisse$_1$ VIII 503

			h m s	° ′ ″			
1912							
Jan. 24	R.	EII	8 21 44.832	−14 38 11.24	0	7.0	2½
27	R.	EII	44.730	10.32	0	7.0	3½
Feb. 2	Hd.	WII	44.788	10.63	0	6.5	2
Mar. 2	R.	WII	44.800	11.12	0	7.5	2½
1915							
Dec. 2	Hd.	EI	44.780	11.50	0	6.5	3
4	Fn.	EI	44.754	11.27	0	6.5	3
8	Wy.	WI	44.809	11.51	0	6.5	3
9	Fn.	WI	44.791	12.48	0	7.0	3
Mean------	1914.01		8 21 44.786	−14 38 11.26			
Corr------			−0.081	−0.11			

Bradley 1199

			h m s	° ′ ″			
1912							
Mar. 17	R.	EII	8 21 57.436	−3 41 28.02	0	6.5	2½
22	Hd.	EII	57.469	28.41	0	6.0	2
26	Hd.	WII	57.471	28.62	0	6.0	3
31	Hd.	WII	57.461	28.34	0	6.0	--
1915							
Dec. 10	Hd.	WI	57.468	28.54	0	6.0	2½
21	Hd.	WI	57.481	28.70	0	6.5	3
1916							
Jan. 3	Wy.	EI	57.417	27.98	0	6.5	3½
7	Wy.	EI	57.413	28.03	0	6.0	3
Mean------	1914.11		8 21 57.452	−3 41 28.33			
Corr------			−0.081	−0.16			

B. D.+18° 1947

			h m s	° ′ ″			
1917							
Mar. 19	Hd.–Fn.	EI	8 22 45.353	+18 21 57.80	0	---	1½
25	Hd.–Fn.	WI	45.365	57.88	0	---	2
Mean------	1917.22		8 22 45.359	+18 21 57.84			
Corr------			−0.081	−0.23			

o Ursæ Majoris

			h m s	° ′ ″				
			8 22 47.740	+61 1 10.92				
			s	″				
1912								
Mar. 7	Fn.	WII	−0.07	+0.41	0	3.0	2½	
13	Fn.	EII	−0.05	+0.20	I	3.4	3½	
30	R.	WII	−0.07	−0.01	0	---	1½	
1915								
Nov. 7	Hd.	EI	−0.06	+0.49	0	---	3	
9	Wy.	WI	−0.08	+1.78	I	3.4	2	
15	Wy.	WI	−0.05	−0.06	I	3.9	3	
24	Wy.	EI	−0.10	+0.33	I	3.4	2½	
1916								
Mar. 23	Hd.–Wy.	WI	----	+0.48	I	3.4	2	
24	Hd.–Wy.	WI	----	+0.49	0	---	3	R.
31	Hd.–Wy.	EI	----	+0.26	I	4.4	2	
Apr. 10	Hd.–Wy.	EI	----	+0.55	I	---	2	R.
Sept. 10	*Hd.*	*WI*	*+0.04*	*+0.29*	*+0.26*	*0*	*---*	*3½*
18	*Hd.*	*EI*	*−0.11*	*−0.02*	*−0.04*	*0*	*---*	*3*
19	*Wy.*	*EI*	*0.00*	*+0.03*	*−0.02*	*0*	*---*	*4*
21	*Hd.*	*EI*	*−0.10*	*−0.01*	*−0.06*	*0*	*---*	*3½*
24	*Wy.*	*EI*	*−0.09*	*+0.03*	*+0.03*	*0*	*---*	*3½*
Oct. 1	*Wy.*	*WI*	*−0.01*	*−0.07*	*−0.08*	*0*	*---*	*3*
1917								
Mar. 6	Fn.	WI	−0.02		+0.84	I	3.4	2
12	Hd.	EI	−0.07		+0.30	I	3.4	2
15	Wy.	EI	−0.06		−0.09	I	3.4	3
Apr. 3	Hd.	WI	−0.02		+0.45	I	3.4	2
10	Fn.	WI	−0.13		[+2.26]	I	3.4	2
16	*Fn.*	*WI*	*−0.02*	*+0.88*	*+0.96*	*I*	*---*	*2½*
Aug. 9	*Wy.*	*WII*	*−0.06*	*+0.61*	*+0.49*	*0*	*---*	*3½*
Sept. 6	*Hd.*	*EII*	*−0.03*	*+0.02*	*−0.06*	*0*	*---*	*3½*
17	*Wy.*	*EII*	*−0.09*	*+0.09*	*+0.09*	*0*	*---*	*3*
19	*Hd.*	*WII*	*−0.08*	*+0.44*	*+0.44*	*0*	*---*	*3*
30	*Hd.*	*WII*	*−0.03*	*+0.52*	*+0.50*	*0*	*---*	*3*
Oct. 1	*Fn.*	*WII*	*−0.08*	*+1.56*	*+1.54*	*0*	*---*	*3*
7	*Hd.*	*EII*	*----*	*+0.12*	*+0.08*	*0*	*---*	*2½*
1918								
Mar. 18	Wy.	WII	−0.01		+0.01	I	3.9	2
28	Fn.	WII	−0.09		+0.52	I	3.9	1½
Apr. 2	Fn.	EII	−0.10		−0.02	I	3.9	3
June 19	*Wy.*	*WII*	*+0.02*	*+1.14*	*+1.05*	*0*	*---*	*3½*
Mean------	1916.06		−0.065		+0.37			
	1916.01							
Corr------			−0.081		−0.32			

o Ursæ Majoris s. p.

			h m s	° ′ ″				
			8 22 -----	+61 1 11.04				
1911								
Aug. 22	R.	EII	-----	−2.0	0	---	4	
Sept. 6	R.	WII	-----	+0.6	0	---	5	
11	Fn.	WII	-----	+1.2	0	---	3	
12	Hd.	WII	-----	−1.1	0	---	5	
13	R.	WII	-----	+1.3	0	---	2½	
18	Fn.	WII	-----	+0.3	0	---	3½	
20	R.	WII	-----	−0.7	0	---	4	
25	Fn.	EII	-----	+3.6	0	---	4½	
26	Hd.	EII	-----	−0.7	0	---	5	
28	Fn.	EII	-----	[+7.0]	0	---	4	
29	Hd.	EII	-----	[+7.9]	0	---	5	
30	R.	EII	-----	−1.1	I	---	5	
Nov. 10	Fn.	EII	-----	−1.6	0	---	4	
1912								
Aug. 10	R.	EII	-----	+0.1	0	---	--	
Sept. 10	R.	EII	-----	+0.4	0	---	--	
12	R.	WII	-----	−0.5	0	---	--	
Oct. 2	R.	EII	-----	−1.8	0	---	--	
4	Hd.	EII	-----	−2.9	0	---	4	
5	Hd.	EII	-----	−0.4	0	---	4	
28	Hd.	EII	-----	−0.9	0	---	4	
29	Hd.	EII	-----	−0.9	0	---	5	
Nov. 3	Hd.	WII	-----	+1.0	0	---	4½	
5	Hd.	WII	-----	+1.0	0	---	5	

1913					″			
May 24	R.	WII	-----		−0. 5	0	---	--
28	R.	WII	-----		−0. 5	0	---	--
31	R.	WII	-----		−1. 6	0	---	--
June 4	R.	WII	-----		−1. 9	0	---	--
1914								
Sept. 21	Hd.	EI	-----		−2. 3	I	---	3½
26	An.	EI	-----		−2. 9	I	---	4
28	Hd.	WI	-----		0. 0	I	---	3½
29	Wy.	WI	-----		−1. 4	0	---	4
30	An.	WI	-----		−0. 9	0	---	4½
Oct. 1	Hd.	WI	-----		+0. 9	I	---	3½
1915								
June 22	Wy.	EI	-----		+0. 1	0	---	4½
24	Fn.	EI	-----		−1. 0	0	---	3½
28	Wy.	EI	-----		−1. 8	I	---	3½
Sept. 3	Hd.	WI	-----		−0. 7	0	---	3½
8	Hd.	WI	-----		+1. 0	0	---	4
9	Wy.	WI	-----		+1. 9	0	---	3½
10	Hd.	WI	-----		−2. 0	0	---	3½
15	Hd.	EI	-----		+1. 6	I	---	3½
16	Wy.	EI	-----		0. 0	0	---	4
22	Hd.	EI	-----		−1. 2	I	---	4
28	Fn.	EI	-----		−1. 1	0	---	4
Oct. 12	Wy.	WI	-----		+0. 1	0	---	4½
21	Hd.	WI	-----		−0. 4	0	---	3½
1916								
Aug. 21	Wy.	EI	-----		−1. 2	0	---	4½
Sept. 5	Wy.	WI	-----		−0. 8	0	---	5
11	Hd.	WI	-----		+0. 6	0	---	4
26	Hd.	EI	-----		−2. 2	0	---	4
Oct. 10	Fn.	WI	-----		+2. 5	0	---	3½
12	Hd.	WI	-----		−0. 6	0	---	4
17	Fn.	WI	-----		−2. 2	0	---	4
23	Wy.	WI	-----		+0. 6	0	---	4
26	Wy.	EI	-----		−0. 2	I	---	4
Nov. 2	Hd.	EI	-----		−1. 1	0	---	4
3	Fn.	EI	-----		−0. 6	0	---	3½
9	Wy.	EI	-----		−0. 4	0	---	4½
16	Wy.	WI	-----		+1. 5	0	---	4
1917								
July 30	Wy.	EII	-----		+0. 5	0	---	4½
Aug. 25	Wy.	EII	-----		−2. 3	0	---	5
Sept. 11	Fn.	EII	-----		−1. 9	0	---	3½
13	Hd.	EII	-----		−0. 2	0	---	4
17	Hd.	EII	-----		0. 0	I	---	3½
18	Wy.	EII	-----		−3. 0	0	---	4½
20	Hd.	WII	-----		−1. 4	0	---	4
Oct. 4	Hd.	WII	-----		−3. 7	0	---	4
15	Fn.	EII	-----		−2. 9	0	---	5
1918								
Aug. 8	Wy.	WII	-----		−0. 4	0	---	5
Mean------	1914. 90		-----		−0. 58			
Corr------			-----		+0. 93			

Weisse$_2$ VIII 481

			h	m	s	°	′	″			
1912											
Feb. 13	Hd.	EII	8	24	25. 413	+26	29	35. 46	0	7. 0	3
14	R.	EII			25. 383			35. 96	0	7. 5	1
Mar. 1	Hd.	WII			25. 397			34. 58	0	6. 5	2
2	R.	WII			25. 392			34. 85	0	7. 5	1
1915											
Nov. 1	Hd.	EI			25. 397			35. 32	0	7. 5	3½
5	Fn.	EI			25. 410			36. 06	0	7. 0	2½
10	Hd.	WI			25. 395			35. 26	0	7. 5	2
16	Hd.	WI			25. 391			35. 84	0	7. 0	2
Mean------	1914. 00		8	24	25. 397	+26	29	35. 42			
Corr------					−0. 081			−0. 24			

B. D.+22° 1941

			h	m	s	°	′	″			
1917											
Mar. 22	Hd.–Fn.	EI	8	24	40. 874	+22	19	48. 82	0	---	--
28	Hd.–Fn.	WI			40. 921			49. 14	0	---	3
29	Wy.	WI			40. 960			-----	0	---	3
Mean------	1917. 24		8	24	40. 918	+22	19	48. 98			
	1917. 23										
Corr------					−0. 081			−0. 23			

B. D.+18° 1958

			h	m	s	°	′	″			
1917											
Mar. 19	Hd.–Fn.	EI	8	26	0. 621	+18	14	24. 22	0	---	1½
25	Hd.–Fn.	WI			0. 646			24. 91	0	---	2
Mean------	1917. 22		8	26	0. 634	+18	14	24. 56			
Corr------					−0. 081			−0. 23			

B. D.+22° 1949

			h	m	s	°	′	″			
1917											
Mar. 22	Hd.–Fn.	EI	8	26	44. 856	+22	0	6. 80	0	---	--
28	Hd.–Fn.	WI			44. 880			8. 31	0	---	3
29	Wy.	WI			44. 913			----	0	---	3
Mean------	1917. 24		8	26	44. 883	+22	0	7. 56			
	1917. 23										
Corr------					−0. 081			−0. 23			

Groombridge 1450

			h	m	s	°	′	″			
			8	27	4. 123	+38	19	31. 94			
1912											
Nov. 16	R.	EII			+0. 023			+0. 43	0	---	1½
Dec. 3	R.	WII			−0. 015			−0. 11	0	6. 5	2½
12	R.	EII			−0. 030			+0. 44	0	6. 5	2
22	R.	WII			−0. 008			+0. 42	0	6. 5	2
1913											
Nov. 4	Fn.	EI			−0. 014			+0. 40	0	6. 0	2
5	R.	EI			−0. 012			−0. 58	I	---	1½
10	Hd.	WI			+0. 009			+0. 11	0	6. 0	2½
17	Hd.	WI			+0. 054			+0. 35	0	6. 0	3
1917											
Jan. 22	Wy.	EI			+0. 012			----	0	---	3
25	Wy.	EI			+0. 070			----	0	6. 0	2
Mar. 8	Wy.	WI			+0. 017			----	0	6. 0	3½
15	Wy.	EI			0. 000			----	0	6. 5	2½
Apr. 3	Hd.	WI			0. 000			----	0	6. 0	2
1918											
Mar. 18	Wy.	WII			+0. 052			----	0	6. 5	2
28	Fn.	WII			+0. 004			----	0	6. 0	2
Apr. 2	Fn.	EII			−0. 015			----	0	6. 0	3
Mean------	1915. 48				+0. 009			+0. 18			
	1913. 40										
Corr------					−0. 081			−0. 27			

η Cancri

			h	m	s	°	′	″			
			8	27	30. 377	+20	44	50. 59			
1912											
Jan. 24	R.	EII			−0. 014			+0. 54	0	5. 5	2½
Feb. 2	Hd.	WII			−0. 038			−0. 30	0	---	--
8	Fn.	EII			−0. 045			+0. 19	0	5. 5	2½
22	R.	WII			−0. 002			+0. 25	0	---	2
1915											
Nov. 17	Fn.	WI			+0. 005			+0. 39	0	6. 0	2
24	Wy.	EI			−0. 007			−0. 03	I	4. 9	2½
27	Wy.	EI			−0. 021			+0. 07	I	4. 9	2
Dec. 6	Hd.	WI			−0. 050			−0. 25	0	6. 0	2
Mean------	1914. 00				−0. 022			+0. 11			
Corr------					−0. 081			−0. 23			

Bradley 1204

			h	m	s	°	′	″			
1912											
Dec. 19	R.	EII	8	27	35. 462	+36	44	31. 34	0	6. 5	4
28	R.	WII			35. 488			31. 82	0	7. 0	1½
30	Fn.	WII			35. 529			32. 11	0	6. 5	3
1913											
Jan. 18	R.	EII			35. 450			32. 49	0	6. 5	1½
Nov. 20	Hd.	WI			35. 495			31. 50	0	6. 5	2
21	Fn.	WI			35. 498			31. 34	0	---	1½
Dec. 3	R.	EI			35. 497			31. 70	0	5. 5	1½
5	R.	EI			35. 442			31. 56	0	6. 0	2½
Mean------	1913. 46		8	27	35. 483	+36	44	31. 73			
Corr------					−0. 081			−0. 26			

B. D.+18° 1973

			h m s	° ′ ″			
1917							
Mar. 19	Hd.–Fn.	EI	8 28 34.508	+17 57 10.97	0	---	1½
25	Hd.–Fn.	WI	34.587	11.67	0	---	2
Mean	1917.22		8 28 34.548	+17 57 11.32			
Corr			−0.081	−0.23			

B. D.+21° 1866

			h m s	° ′ ″			
1917							
Mar. 22	Hd.–Fn.	EI	8 29 25.003	+21 48 7.08	0	---	--
28	Hd.–Fn.	WI	25.012	8.02	0	---	3
29	Wy.	WI	24.978	----	0	---	3
Mean	1917.24		8 29 24.998	+21 48 7.55			
	1917.23						
Corr			−0.081	−0.23			

Groombridge 1446

			h m s	° ′ ″			
			8 29 43.437	+73 56 42.25			
1912							
Apr. 3	R.	WII	+0.02	+1.06	0	6.0	3
5	Hd.	EII	+0.02	+0.48	0	---	--
6	R.	EII	−0.04	+0.28	0	---	--
8	Fn.	WII	+0.01	+0.64	0	6.5	2
1915							
Feb. 10	Hd.–An.	EI	----	+0.49	0	6.5	2
17	Fn.–Wy.	EI	----	+0.65	0	5.7	2
18	Hd.–An.	EI	----	+0.73	0	---	3 R.
19	Fn.–Wy.	EI	----	+0.82	0	---	2 R.
20	An.–Hd.	WI	----	+0.34	0	7.0	2
21	An.–Hd.	WI	----	+1.00	0	---	3 R.
Mar. 1	Wy.–Fn.	WI	----	+0.95	0	---	3½ R.
8	Wy.–Fn.	WI	----	+0.58	0	6.2	3
9	Wy.–Fn.	WI	----	+0.97	0	6.0	3
Nov. 1	Hd.	EI	−0.01	+1.82	0	6.0	4
5	Fn.	EI	+0.01	+1.76	0	6.5	2½
9	Wy.	WI	−0.05	+0.64	0	6.0	2
15	Wy.	WI	−0.03	+0.91	0	6.5	3
1916							
Mar. 23	Hd.–Wy.	WI	----	+1.83	0	---	2 R.
24	Hd.–Wy.	WI	----	+0.50	0	---	3
31	Hd.–Wy.	EI	----	+1.39	0	---	2 R.
Apr. 10	Hd.–Wy.	EI	----	+0.51	0	6.0	2
Mean	1914.06		−0.009	+0.78			
	1914.71						
Corr			−0.081	−0.35			

Groombridge 1446 S. P.

			h m s	° ′ ″			
			8 29 43.438	+73 56 42.37			
1912							
Oct. 5	Hd	EII	−0.03	−0.13	0	6.5	3½
9	Hd.	WII	−0.04	−0.05	0	6.5	4
10	Hd.	WII	−0.12	−0.04	0	7.0	4
26	Fn.	EII	+0.08	−0.67	0	6.9	3½
1914							
Aug. 8	Wy	EI	−0.15	−1.45	0	7.5	4
13	Hd.	WI	−0.08	+0.13	0	6.5	3
31	Fn.	WI	−0.19	−0.37	0	6.0	3
Sept. 14	Fn.	EI	−0.18	−0.13	0	6.5	3
Mean	1913.71		−0.089	−0.34			
Corr			−0.081	+0.54			

Groombridge 1431

			h m s	° ′ ″			
1912							
Feb. 9	Hd.	EII	8 30 12.09	+82 33 33.55	0	7.0	4
13	Hd.	EII	11.80	33.44	0	7.0	--
Mar. 2	R.	WII	11.72	32.21	0	---	1
7	Fn.	WII	11.78	33.14	0	---	2½
1915							
Nov. 7	Hd.	EI	12.03	33.07	0	7.5	2
16	Hd.	WI	11.99	33.28	0	7.5	3
27	Wy.	EI	11.73	33.18	0	7.0	2½
Dec. 9	Fn.	WI	11.99	33.00	0	7.0	2½
Mean	1914.02		8 30 11.891	+82 33 33.11			
Corr			−0.081	−0.38			

Groombridge 1431 S. P.

			h m s	° ′ ″			
1911							
July 14	Hd.	WII	8 30 11.43	+82 33 32.29	0	7.0	3
15	R.	WII	11.84	31.74	0	---	--
22	R.	EII	11.52	32.35	0	---	4
24	Fn.	EII	12.31	32.29	0	---	--
1915							
July 14	An.	WI	-----	32.06	0	7.0	3½
17	An.	WI	-----	31.68	0	7.0	3½
20	Hd.	EI	11.85	31.40	0	7.5	3
22	Fn.	EI	11.71	31.75	0	---	3
Mean	1912.88		8 30 11.777	+82 33 31.94			
	1913.55						
Corr			−0.081	+0.46			

Bradley 1202

			h m s	° ′ ″			
1912							
Feb. 14	R.	EII	8 31 12.85	+65 19 57.85	0	7.0	1½
17	R.	EII	12.92	59.03	0	6.5	2
23	Hd.	WII	12.86	58.18	0	6.0	3
Mar. 1	Hd.	WII	12.84	57.60	0	6.0	--
1915							
Nov. 30	Hd.	EI	12.93	58.73	0	6.0	3
Dec. 2	Hd.	EI	12.90	58.41	0	---	3
10	Hd.	WI	12.91	58.58	0	6.0	2½
21	Hd.	WI	12.95	58.44	0	6.0	2½
Mean	1914.04		8 31 12.895	+65 19 58.35			
Corr			−0.081	−0.33			

B. D.+17° 1882

			h m s	° ′ ″			
1917							
Mar. 19	Hd.–Fn.	EI	8 31 15.983	+17 36 5.63	0	---	1½
25	Hd.–Fn.	WI	16.046	6.36	0	---	2
Mean	1917.22		8 31 16.014	+17 36 6.00			
Corr			−0.081	−0.23			

B. D.+21° 1875

			h m s	° ′ ″			
1917							
Mar. 22	Hd.–Fn.	EI	8 31 22.903	+21 30 5.61	0	---	--
28	Hd.–Fn.	WI	22.894	6.17	0	---	3
29	Wy.	WI	22.930	----	0	---	3
Mean	1917.24		8 31 22.909	+21 30 5.89			
	1917.23						
Corr			−0.081	−0.23			

Bradley 1213

			h m s	° ′ ″			
1912							
Mar. 13	Fn.	EII	8 32 13.104	+9 58 7.73	0	6.4	3½
16	Fn.	EII	13.128	7.60	0	5.8	1½
25	Fn.	WII	13.117	7.63	0	6.2	2
26	Hd.	WII	13.093	7.48	0	6.0	--
1915							
Dec. 4	Fn.	EI	13.108	7.48	0	6.0	2½
6	Hd.	WI	13.123	6.87	0	6.0	2
8	Wy.	WI	13.146	7.21	0	6.0	2½
1916							
Jan. 3	Wy.	EI	13.090	7.53	0	6.0	3
Mean	1914.08		8 32 13.114	+9 58 7.44			
Corr			−0.081	−0.21			

27 B. Ursæ Majoris

				h	m	s	°	′	″			
1913												
Jan. 29	Fn.	WII		8	32	37.838	+53	1	39.99	0	6.5	1½
Feb. 7	Fn.	WII				37.852			39.67	0	6.6	2½
17	Fn.	EII				37.948			39.06	0	6.5	2
19	Fn.	EII				37.918			39.52	0	6.0	2
Nov. 4	Fn.	EI				37.870			40.14	0	---	2
5	R.	EI				37.826			39.02	I	4.9	2
10	Hd.	WI				37.865			39.68	0	6.0	3
17	Hd.	WI				37.882			39.56	0	6.0	3
Mean	1913.48			8	32	37.875	+53	1	39.58			
Corr						−0.081			−0.30			

Lalande 17001

				h	m	s	°	′	″			
1912												
Nov. 16	R.	EII		8	32	52.676	−18	21	58.98	0	7.5	2
Dec. 3	R.	WII				52.633			59.74	0	8.0	2
12	R.	EII				52.636			59.93	0	7.5	3
22	R.	WII				52.703			-----	0	7.5	2½
1913												
Dec. 30	Fn.	WI				52.719			59.93	0	---	3½
1914												
Jan. 5	Hd.	EI				52.667			60.17	0	7.0	3
9	R.	EI				52.705			60.33	0	8.0	3½
Mar. 9	Fn.	WI				52.665			60.71	0	---	3
Mean	1913.49			8	32	52.676	−18	21	59.97			
	1913.57											
Corr						−0.081			−0.09			

δ Hydræ

				h	m	s	°	′	″			
				8	32	53.553	+6	1	5.26			
1912												
Jan. 27	R.	EII				−0.001			−0.24	0	5.5	3½
Feb. 2	Hd.	WII				+0.015			+0.48	I	3.9	--
8	Fn.	EII				−0.012			−0.05	I	3.7	2½
22	R.	WII				−0.030			+0.53	0	---	4
1915												
Nov. 24	Wy.	EI				−0.004			−0.93	I	4.4	2½
29	Wy.	EI				+0.025			−0.15	I	3.9	3
Dec. 22	Fn.	WI				+0.034			−0.77	I	4.9	3
23	Hd.	WI				+0.005			−0.85	I	4.4	3½
Mean	1914.02					+0.004			−0.25			
Corr						−0.081			−0.19			

σ Hydræ

				h	m	s	°	′	″			
				8	34	3.272	+3	39	28.70			
1912												
Dec. 19	R.	EII				−0.040			−1.45	0	---	5
21	R.	EII				−0.002			−0.71	0	5.5	2
28	R.	WII				+0.003			−0.21	I	4.4	3½
30	Fn.	WII				+0.059			+1.13	0	5.0	3
1913												
Jan. 18	R.	EII				−0.008			[+1.79][1]	I	4.4	2
Nov. 20	Hd.	WI				+0.004			−0.33	I	4.4	2
21	Fn.	WI				−0.004			−0.43	0	---	1½
Dec. 3	R.	EI				+0.002			−0.73	I	4.4	2½
5	R.	EI				+0.023			−1.24	I	4.4	3½
1915												
Feb. 10	Hd.–An.	EI				-----			−1.05	I	---	2 R.
17	Fn.–Wy.	EI				-----			−1.17	0	---	2½ R.
18	Hd.–An.	EI				-----			−0.58	I	4.4	2
19	Fn.–Wy.	EI				-----			−0.45	0	5.0	2½
20	An.–Hd.	WI				-----			−1.80	I	---	2½ R.
21	An.–Hd.	WI				-----			−0.70	I	5.4	--
Mar. 1	Wy.–Fn.	WI				-----			−1.02	I	4.4	3
8	Wy.–Fn.	WI				-----			−1.09	0	---	-- R.
9	Wy.–Fn.	WI				-----			−1.50	I	---	3 R.
1916						s			″			
Mar. 23	Hd.–Wy.	WI				-----			−0.60	I	4.4	2
24	Hd.–Wy.	WI				-----			−1.17	0	---	3 R.
31	Hd.–Wy.	EI				-----			−0.27	I	4.9	2½
Apr. 10	Hd.–Wy.	EI				-----			−1.25	I	---	2 R.
Mean	1913.40					+0.004			−0.54			
	1914.33											
Corr						−0.081			−0.19			

Fedorenko 1359

				h	m	s	°	′	″			
1913												
Mar. 5	Fn.	EII		8	34	9.358	+51	44	50.62	0	7.0	2½
7	Fn.	EII				9.379			50.70	0	7.0	1½
17	Fn.	WII				9.291			51.88	0	7.0	2½
18	Hd.	WII				9.303			50.88	0	7.0	2
1914												
Mar. 10	Wy.	WI				9.349			50.96	0	---	3
12	Fn.	WI				9.382			51.23	0	7.0	1½
25	Hd.	EI				9.276			50.80	0	---	2
26	Fn.	EI				9.307			51.62	0	7.0	2
Apr. 13	Fn.	EI				9.278			50.22	0	7.0	1½
Mean	1913.77			8	34	9.325	+51	44	50.99			
Corr						−0.081			−0.29			

B. D.+17° 1902

				h	m	s	°	′	″			
1917												
Mar. 22	Hd.–Fn.	EI		8	34	25.400	+17	47	44.68	0	---	--
28	Hd.–Fn.	WI				25.413			45.00	D	---	3
29	Wy.	WI				25.424			-----	D	---	3
Mean	1917.24			8	34	25.412	+17	47	44.84			
	1917.23											
Corr						−0.081			−0.23			

Bradley 1220

				h	m	s	°	′	″			
1912												
Mar. 26	Hd.	WII		8	34	32.537	+20	5	45.44	0	7.0	2
30	R.	WII				32.568			45.74	D	---	1
Apr. 4	Fn.	EII				32.562			45.62	D	---	2
5	Hd.	EII				32.520			45.31	0	7.0	2
1916												
Jan. 14	Hd.	EI				32.565			45.86	D	7.0	2½
20	Wy.	EI				32.568			44.85	0	7.0	3
Feb. 11	Fn.	WI				32.529			46.08	0	---	3
15	Fn.	WI				32.540			45.62	0	---	3
Mean	1914.16			8	34	32.549	+20	5	45.56			
Corr						−0.081			−0.23			

Bradley 1214

				h	m	s	°	′	″			
1913												
Mar. 11	Hd.	EII		8	34	48.212	+46	9	1.64	0	---	2
20	R.	WII				48.199			0.96	0	5.0	3
21	Fn.	WII				48.155			1.75	0	6.2	3
24	Fn.	EII				48.132			1.59	0	---	3
1914												
Mar. 13	Wy.	WI				48.202			1.64	D	6.0	2
14	Hd.	WI				48.227			1.56	D	5.5	2½
18	Hd.	EI				48.235			1.33	0	5.5	3½
22	Wy.	EI				48.181			2.00	0	5.5	2½
Mean	1913.71			8	34	48.193	+46	9	1.56			
Corr						−0.081			−0.28			

B. D.+21° 1885

				h	m	s	°	′	″			
1917												
Mar. 19	Hd.–Fn.	EI		8	35	14.625	+21	26	32.03	0	---	1½
25	Hd.–Fn.	WI				14.691			32.67	D	---	2
Mean	1917.22			8	35	14.658	+21	26	32.35			
Corr						−0.081			−0.23			

[1] Micrometer readings doubtful.

6 Hydræ

			h m s	° ′ ″			
1913							
Feb. 14	Fn.	WII	8 35 45.652	−12 9 24.56	0	5.5	3½
15	R.	WII	45.646	25.19	0	5.5	3
23	R.	EII	45.630	23.84	0	...	2½
Mar. 3	Fn.	EII	45.628	25.16	0	...	3½
6	Hd.	EII	45.613	23.58	0	5.5	3½
1914							
Mar. 23	Fn.	EI	45.669	24.66	0	5.5	2½
24	Wy.	EI	45.599	24.85	0	5.5	2½
Apr. 4	Hd.	WI	45.653	24.51	0	...	2
5	Hd.	WI	45.679	24.36	I	4.4	3
Mean	1913.64		8 35 45.641	−12 9 24.52			
Corr			−0.081	−0.13			

β Pyxidis

			h m s	° ′ ″			
1912							
Apr. 8	Fn.	WII	8 36 34.730	−34 59 19.33	0	...	3½
9	Hd.	WII	34.739	18.42	0	...	5
11	Fn.	EII	34.806	20.67	0	...	4½
19	Hd.	EII	34.744	18.55	0	...	4
1915							
Nov. 30	Hd.	EI	34.859	17.41	0	...	4
Dec. 2	Hd.	EI	34.785	19.31	0	5.5	3
4	Fn.	EI	34.832	19.53	0	...	3½
6	Hd.	WI	34.876	19.77	0	5.5	3½
8	Wy.	WI	34.896	20.18	0	...	4
Mean	1914.30		8 36 34.807	−34 59 19.24			
Corr			−0.081	+0.13			

Lalande 17133

			h m s	° ′ ″			
1912							
Feb. 14	R.	EII	8 36 39.730	−8 43 54.59	0	7.5	1½
17	R.	EII	39.713	54.18	0	...	3
Mar. 7	Fn.	WII	39.779	54.83	0	6.8	2½
31	Hd.	WI	39.750	54.59	0	6.5	3
1915							
Nov. 7	Hd.	EI	39.740	55.10	0	6.5	3
9	Wy.	WI	39.730	54.69	0	6.5	2½
10	Hd.	WI	39.741	55.59	0	...	3
15	Wy.	WI	39.740	54.78	0	7.0	3
24	Wy.	EI	39.739	55.02	0	7.0	2½
Mean	1914.22		8 36 39.740	−8 43 54.82			
Corr			−0.081	−0.15			

B. D.+22° 1976

			h m s	° ′ ″			
1917							
Mar. 19	Hd.–Fn.	EI	8 37 26.203	+22 25 53.08	0	...	1½
25	Hd.–Fn.	WI	26.279	53.54	0	...	2
Mean	1917.22		8 37 26.241	+22 25 53.31			
Corr			−0.081	−0.23			

B. D.+18° 2022

			h m s	° ′ ″			
1917							
Mar. 22	Hd.–Fn.	EI	8 38 1.345	+18 28 25.54	0	...	..
28	Hd.–Fn.	WI	1.343	24.99	0	...	3
29	Wy.	WI	1.396	.....	0	...	3
Mean	1917.24		8 38 1.361	+18 28 25.26			
	1917.23						
Corr			−0.081	−0.23			

γ Cancri

			h m s	° ′ ″			
			8 38 4.791	+21 47 33.67			
1912							
Nov. 16	R.	EII	+0.068	+0.09	I	4.4	1½
Dec. 3	R.	WII	+0.002	+0.12	I	4.4	2
12	R.	EII	−0.043	−0.94	I	4.9	2½
22	R.	WII	+0.010	+0.35	0	5.5	2
1913			s	″			
Nov. 22	R.	WI	−0.010	+0.94	I	4.4	2
24	Hd.	WI	−0.016	+0.04	I	4.4	2
Dec. 3	R.	EI	+0.006	−0.13	I	4.4	2½
8	Hd.	EI	−0.004	−0.29	0	5.5	2
1915							
Feb. 10	Hd.–An.	EI	.....	−0.32	I	...	2 R.
17	Fn.–Wy.	EI	.....	−1.42	0	...	2 R.
18	Hd.–An.	EI	.....	−0.11	I	4.4	2
19	Fn.–Wy.	EI	.....	−0.32	0	5.0	2
20	An.–Hd.	WI	.....	−0.99	I	...	2 R.
21	An.–Hd.	WI	.....	+0.38	I	5.4	3
Mar. 1	Wy.–Fn.	WI	.....	−1.01	I	4.4	3
8	Wy.–Fn.	WI	.....	−0.32	0	...	.. R.
9	Wy.–Fn.	WI	.....	−0.13	0	...	3 R.
1916							
Mar. 23	Hd.–Wy.	WI	.....	−0.27	0	...	2 R.
24	Hd.–Wy.	WI	.....	+0.40	0	...	3
31	Hd.–Wy.	EI	.....	−0.61	0	...	2 R.
Apr. 10	Hd.–Wy.	EI	.....	+0.15	I	4.4	2
Mean	1913.42		+0.002	−0.02			
	1914.32						
Corr			−0.081	−0.23			

η Hydræ

			h m s	° ′ ″			
1912							
Jan. 27	R.	EII	8 38 31.298	+3 43 19.91	0	5.5	4
Feb. 2	Hd.	WII	31.328	20.85	I	4.4	2
8	Fn.	EII	31.326	19.83	0	5.0	2½
23	Hd.	WII	31.319	20.26	I	4.4	..
1915							
Dec. 21	Hd.	WI	31.311	19.82	I	4.9	3
22	Fn.	WI	31.297	20.02	0	5.0	3
1916							
Jan. 3	Wy.	EI	31.297	19.89	I	4.9	3½
7	Wy.	EI	31.310	20.20	I	4.9	3
Mean	1914.05		8 38 31.311	+3 43 20.10			
Corr			−0.081	−0.19			

δ Cancri

			h m s	° ′ ″			
			8 39 34.355	+18 29 7.41			
1912							
Dec. 21	R.	EII	+0.001	−0.27	I	...	2½
28	R.	WII	+0.035	−0.14	I	3.9	2½
30	Fn.	WII	−0.040	+0.35	I	4.2	2½
1913							
Jan. 18	R.	EII	−0.002	+0.56	I	3.9	2
Nov. 4	Fn.	EI	−0.014	+1.03	I	3.9	2½
5	R.	EI	−0.008	−0.15	II	2.6	1½
10	Hd.	WI	+0.020	+0.62	I	3.9	3
17	Hd.	WI	+0.001	+0.70	I	3.9	3
Mean	1913.43		−0.001	+0.34			
Corr			−0.081	−0.23			

B. D.+22° 1983

			h m s	° ′ ″			
1917							
Mar. 19	Hd.–Fn.	EI	8 39 41.295	+22 10 58.61	0	...	1½
25	Hd.–Fn.	WI	41.378	58.95	0	...	2
Mean	1917.22		8 39 41.336	+22 10 58.78			
Corr			−0.081	−0.23			

Bradley 1233

			h m s	° ′ ″			
1912							
Mar. 13	Fn.	EII	8 39 50.371	+31 1 27.42	0	6.5	2½
16	Fn.	EII	50.351	27.13	0	6.5	1½
25	Fn.	WII	50.380	27.47	0	6.2	1½
26	Hd.	WII	50.323	27.71	0	6.0	..
1915							
Dec. 9	Fn.	WI	50.310	26.67	0	6.0	2
10	Hd.	WI	50.339	27.67	0	6.0	2

			h m s	° ′ ″			
1916							
Jan. 8	Fn.	EI	50.384	26.90	0	6.5	2½
14	Hd.	EI	50.351	27.75	0	6.0	2
Mean	1914.10		8 39 50.351	+31 1 27.34			
Corr			−0.081	−0.25			

α Pyxidis

			h m s	° ′ ″			
			8 39 58.506	−32 51 41.47			
1913							
Mar. 7	Fn.	EII	+0.067	+0.85	0	---	2½
11	Hd.	EII	+0.037	+0.08	0	---	3
17	Fn.	WII	+0.016	+1.97	0	---	4½
18	Hd.	WII	+0.046	+0.30	I	4.4	3½
1914							
Feb. 17	Wy.	WI	+0.013	−1.11	0	5.0	3½
26	Fn.	EI	+0.021	−0.21	0	---	4
27	Wy.	EI	+0.073	−0.09	0	5.5	3½
Mar. 3	Wy.	WI	+0.023	+0.68	0	4.0	3½
4	Hd.	WI	+0.008	+0.62	0	---	3½
Mean	1913.73		+0.034	+0.34			
Corr			−0.081	+0.09			

B. D.+18° 2030

			h m s	° ′ ″			
1917							
Mar. 22	Hd.–Fn.	EI	8 40 2.314	+18 41 11.61	0	---	--
28	Hd.–Fn.	WI	2.379	12.25	0	---	3
29	Wy.	WI	2.367	-----	0	---	3
Mean	1917.24		8 40 2.353	+18 41 11.93			
	1917.23						
Corr			−0.081	−0.23			

Bradley 1240

			h m s	° ′ ″			
1912							
Mar. 17	R.	EII	8 40 15.382	+6 0 26.15	0	7.0	2
22	Hd.	EII	15.413	26.29	0	7.5	2
Apr. 3	R.	WII	15.362	26.21	0	6.5	2½
10	R.	WII	15.343	25.72	0	7.0	2½
1915							
Dec. 23	Hd.	WI	15.396	24.91	0	6.5	3½
1916							
Jan. 20	Wy.	EI	------	25.71	0	7.0	3
23	Fn.	EI	15.374	25.96	0	7.0	2
Feb. 3	Fn.	EI	15.364	24.92	0	7.0	2
9	Hd.	WI	15.301	25.35	0	7.0	3
Mean	1914.15		8 40 15.367	+6 0 25.69			
	1914.36						
Corr			−0.081	−0.19			

Lalande 17283

			h m s	° ′ ″			
1913							
Mar. 5	Fn.	EII	8 40 53.691	−20 50 27.72	0	7.0	3
6	Hd.	EII	53.654	27.27	0	6.0	3½
22	Hd.	WII	53.749	27.72	0	6.5	3
Apr. 5	Hd.	WII	53.735	28.50	0	6.0	3½
6	R.	WII	53.741	27.93	0	6.0	2½
Nov. 20	Hd.	WI	53.699	28.17	0	6.0	3½
21	Fn.	WI	53.750	28.83	0	---	2½
Dec. 5	R.	EI	53.760	27.81	0	6.0	4½
11	Hd.	EI	53.747	27.27	0	6.0	3
Mean	1913.53		8 40 53.725	−20 50 27.91			
Corr			−0.081	−0.07			

ι Cancri

			h m s	° ′ ″			
			8 41 15.265	+29 5 22.62			
1912							
Apr. 5	Hd.	EII	−0.013	−0.64	I	---	--
6	R.	EII	+0.023	−0.40	0	---	3

			s	″			
1912							
Apr. 8	Fn.	WII	+0.006	+0.47	I	3.8	1½
9	Hd.	WII	+0.005	−0.15	I	2.9	3
1915							
Nov. 15	Wy.	WI	−0.030	+0.51	I	3.9	2½
16	Hd.	WI	−0.049	−0.36	I	3.4	2
24	Wy.	EI	−0.019	+0.19	I	3.4	2½
30	Hd.	EI	+0.041	+0.10	I	4.4	2
1917							
Mar. 8	Wy.	WI	−0.036	----	I	4.4	4
12	Hd.	EI	−0.030	----	I	3.9	2
15	Wy.	EI	−0.029	----	I	4.4	3
Apr. 3	Hd.	WI	−0.045	----	I	3.9	2
1918							
Apr. 2	Fn.	EII	−0.041	----	0	---	3
Mean	1915.36		−0.017	−0.04			
	1914.08						
Corr			−0.081	−0.25			

Weisse$_1$ VIII 1016

			h m s	° ′ ″			
1913							
Feb. 19	Fn.	EII	8 41 47.855	−10 40 42.92	0	6.6	3
25	Hd.	EII	47.862	42.55	0	6.5	2
Mar. 20	R.	WII	47.857	42.75	0	6.0	3
21	Fn.	WII	47.875	42.87	0	6.4	3½
1914							
Mar. 9	Fn.	WI	47.915	43.48	0	---	3
10	Wy.	WI	47.828	43.43	0	---	3
22	Wy.	EI	47.923	42.10	0	6.5	3
23	Fn.	EI	47.883	42.01	0	6.5	2
Mean	1913.69		8 41 47.875	−10 40 42.76			
Corr			−0.081	−0.14			

ε Hydræ [1]

			h m s	° ′ ″			
			8 42 0.622	+6 44 58.27			
			s	″	″		
1911							
Oct. 18	*Hd.*	*WII*	-----	*−0.15*	*−0.14*	*0*	--- *3*
23	*Fn.*	*WII*	*+0.001*	*+1.00*	*+0.99*	*0*	--- --
24	*R.*	*WII*	*−0.008*	*−0.93*	*−0.92*	*0*	--- --
25	*R.*	*WII*	*−0.006*	*−1.17*	*−1.16*	*0*	--- --
26	*R.*	*WII*	-----	*−0.78*	*−0.78*	*0*	--- --
29	*R.*	*EII*	*+0.075*	*−0.45*	*−0.46*	*0*	--- --
1912							
Feb. 22	R.	WII	−0.022	-----		I	--- 3
Mar. 18	Fn.	EII	+0.011	−0.85		I	3.3 3
Apr. 11	Fn.	EII	−0.034	−1.59		I	3.2 3
19	Hd.	EII	+0.049	−0.46		I	2.9 3
20	Fn.	WII	+0.036	−0.42		0	--- 1½
22	Fn.	WII	+0.031	−0.85		0	--- 3
Sept. 19	*Hd.*	*WII*	*+0.083*	*−0.32*	*−0.26*	*0*	--- --
27	*R.*	*EII*	*+0.054*	*−0.33*	*−0.29*	*0*	--- --
29	*R.*	*EII*	*+0.123*	*−0.22*	*−0.18*	*0*	--- *3*
30	*Hd.*	*EII*	*+0.016*	*−0.12*	*−0.12*	*0*	--- *3*
Oct. 1	*Hd.*	*EII*	*+0.022*	*−0.46*	*−0.50*	*0*	--- *2*
3	*Hd.*	*EII*	*−0.013*	*−0.03*	*−0.03*	*0*	--- *3*
4	*Hd.*	*EII*	*+0.005*	*−0.92*	*−0.93*	*0*	--- *3*
6	*Hd.*	*WII*	*+0.045*	*−0.53*	*−0.56*	*0*	--- *3*
7	*Hd.*	*WII*	*−0.026*	*−0.30*	*−0.27*	*0*	--- *2*
9	*Hd.*	*WII*	*−0.021*	*−0.47*	*−0.47*	*0*	--- *2*
10	*Hd.*	*WII*	*−0.003*	*−0.39*	*−0.39*	*0*	--- *2*
Nov. 4	R.	WII	+0.022	−0.99		I	3.4 2
16	R.	EII	−0.030	----		I	3.9 2
Dec. 19	R.	EII	+0.042	−0.71		I	3.9 2½
1913							
Jan. 3	Fn.	WII	+0.010	+0.14		0	--- 4
19	R.	EII	+0.032	+0.21		I	3.9 2½
27	Fn.	EII	+0.035	−0.38		I	3.1 3
29	Fn.	WII	+0.003	+0.02		I	--- 2
Feb. 15	R.	WII	+0.019	−0.38		I	3.4 3
23	R.	EII	+0.026	−0.40		0	--- 2
Mar. 12	Fn.	EII	+0.010	−0.24		0	--- 2½
24	Fn.	EII	−0.006	−0.84		0	--- 3½
28	Fn.	EII	+0.039	−0.65		I	3.3 1½

[1] Triple; mean of close pair observed.

				s	"	"					
1913											
Dec.	3	R.	EI	+0.047		----	I	2.9	2		
	9	Fn.	EI	+0.029		−0.29	0	---	2		
1914											
Jan.	8	Hd.	EI	+0.039		----	I	3.9	2		
	9	R.	EI	+0.035		----	I	2.9	4		
	28	Fn.	WI	+0.067		−0.63	I	3.4	3		
Mar.	12	Fn.	WI	+0.019		−0.08	I	3.9	1½		
	13	Wy.	WI	+0.022		----	I	3.9	2		
	14	Hd.	WI	+0.008		----	I	3.4	2		
	16	Fn.	WI	+0.001		+0.41	0	---	3		
	18	Hd.	EI	+0.004		−0.44	I	3.4	3½		
	26	Fn.	EI	−0.024		----	I	3.9	2½		
Apr.	3	Wy.	WI	+0.009		+0.52	I	3.4	2		
	4	Hd.	WI	+0.024		−0.28	0	---	2		
Sept.	*9*	*An.*	*EI*	*+0.048*	*−2.07*	*−1.99*	*0*	---	--		
	14	*An.*	*EI*	*−0.053*	*−1.32*	*−1.25*	*0*	---	*3½*		
	17	*An.*	*EI*	*+0.026*	*−1.13*	*−1.14*	*0*	---	*3½*		
	20	*Hd.*	*EI*	*+0.015*	*−0.27*	*−0.23*	*0*	---	*2½*		
	21	*Wy.*	*EI*	*−0.007*	*+0.28*	*+0.30*	*0*	---	*3½*		
	25	*An.*	*EI*	*+0.001*	*−2.52*	*−2.50*	*0*	---	*3½*		
Oct.	*29*	*An.*	*EI*	*+0.010*	----	----	*I*	---	*3*		
Nov.	3	Fn.	WI	+0.016		----	0	---	4		
	4	Wy.	WI	+0.011		----	I	3.4	3½		
1915											
Feb.	10	Hd.–An.	EI	-----		−1.10	I	2.9	2		
	17	Fn.–Wy.	EI	-----		+0.01	I	3.4	2½		
	18	Hd.–An.	EI	-----		−0.78	I	---	2	R.	
	19	Fn.–Wy.	EI	-----		−1.32	I	---	2½	R.	
	20	An.–Hd.	WI	-----		−0.31	I	4.4	2½		
	21	An.–Hd.	WI	-----		−1.60	I	---	3	R.	
Mar.	1	Wy.–Fn.	WI	-----		−0.96	I	---	3	R.	
	8	Wy.–Fn.	WI	-----		−1.62	I	3.4	3		
	9	Wy.–Fn.	WI	-----		−0.88	I	3.4	3		
	30	Wy.	EI	−0.017		----	0	---	3		
	31	An.	EI	+0.022		+0.11	I	3.9	3		
Apr.	1	Fn.	EI	+0.011		−0.70	I	3.9	2½		
	12	Hd.	WI	+0.005		+0.43	I	---	3		
	13	Fn.	WI	+0.003		+0.74	I	3.9	2½		
	14	An.	WI	+0.003		----	I	4.4	2		
Sept.	*12*	*Hd.*	*EI*	*+0.089*	*−0.66*	*−0.63*	*0*	---	*3*		
	13	*Wy.*	*EI*	*+0.094*	*−0.82*	*−0.78*	*0*	---	*3½*		
	15	*Wy.*	*EI*	-----	*−0.95*	*−0.90*	*0*	---	*3½*		
	22	*Hd.*	*EI*	*+0.013*	*−0.81*	*−0.77*	*0*	---	*3*		
	26	*Hd.*	*EI*	*−0.024*	*−0.74*	*−0.65*	*0*	---	*3*		
	29	*Hd.*	*EI*	-----	*−0.90*	*−0.89*	*0*	---	*3*		
Oct.	*8*	*Fn.*	*WI*	*−0.006*	*−0.06*	*−0.02*	*0*	---	*3*		
	10	*Fn.*	*WI*	*+0.017*	*−0.37*	*−0.34*	*0*	---	*2½*		
	25	*Wy.*	*WI*	*+0.022*	----	----	*0*	---	*3*		
Nov.	10	Hd.	WI	+0.009		----	0	---	3		
1916											
Feb.	11	Fn.	WI	−0.010		−0.11	0	---	3		
	15	Fn.	WI	+0.060		−1.43	0	---	3		
Mar.	4	Wy.	WI	−0.019		−0.59	I	3.4	3½		
	5	Fn.	WI	+0.042		----	0	---	2½		
	10	Fn.	WI	+0.037		----	I	3.9	3		
	23	Hd.–Wy.	WI	-----		−0.54	I	2.9	2		
	24	Hd.–Wy.	WI	-----		−1.34	0	---	3	R.	
	31	Hd.–Wy.	EI	-----		−0.36	I	3.4	2		
Apr.	10	Hd.–Wy.	EI	-----		−2.09	I	3.9	2	R.	
	13	Hd.–Fn.	EI	-----		−1.98	0	---	3	R.	
	15	Hd.–Fn.	EI	-----		−0.91	I	2.9	3		
	18	Hd.–Fn.	EI	-----		−1.49	I	---	3	R.	
	19	Hd.–Fn.	WI	-----		−0.76	I	---	2½	R.	
	20	Hd.–Wy.	WI	-----		−1.11	I	4.4	2		
Sept.	*18*	*Hd.*	*EI*	*−0.053*	*−1.02*	*−0.99*	*0*	---	*3*		
	21	*Hd.*	*EI*	*−0.003*	*−0.70*	*−0.63*	*0*	---	*3½*		
	24	*Wy.*	*EI*	*−0.019*	*−0.49*	*−0.47*	*0*	---	*3½*		
Oct.	*1*	*Wy.*	*WI*	*+0.031*	*−0.86*	*−0.85*	*0*	---	*3*		
	23	*Hd.*	*WI*	*−0.010*	----	----	*I*	---	*3*		
	26	*Hd.*	*EI*	*−0.027*	*−0.33*	*−0.32*	*I*	---	*3*		
1917											
Mar.	6	Fn.	WI	+0.026		−0.59	I	3.4	2		
Apr.	10	Fn.	WI	+0.001		−0.15	I	3.9	2½		
	16	Fn.	WI	+0.044		−0.58	I	4.4	2½		
	23	*Wy.*	*EI*	*+0.012*	*−0.65*	*−0.60*	*I*	---	*2½*		
May	*10*	*Fn.*	*WI*	*+0.006*	*−0.14*	*−0.14*	*0*	---	*3*		
June	*25*	*Wy.*	*WII*	*+0.001*	*−1.03*	*−0.89*	*0*	---	*3½*		
Sept.	*17*	*Wy.*	*EII*	*+0.010*	*−1.04*	*−1.04*	*0*	---	*3*		

				s	"	"					
1917											
Sept.	*30*	*Hd.*	*WII*	*+0.047*	*−0.74*	*−0.71*	*0*	---	*3*		
Oct.	*1*	*Fn.*	*WII*	*+0.020*	*−0.74*	*−0.71*	*0*	---	*3*		
	7	*Hd.*	*EII*	-----	*−0.43*	*−0.37*	*0*	---	*2½*		
1918											
Mar.	15	Fn.	WII	+0.049		−1.59	I	3.9	2½		
	18	Wy.	WII	−0.017		−1.45	I	3.4	2½		
	25	Fn.	WII	+0.043		−1.15	I	3.9	2½		
	28	Fn.	WII	+0.051		−1.19	I	3.9	1½		
Apr.	5	Fn.	EII	+0.012		+0.72	I	3.9	2		
	15	Fn.	EII	+0.003		+0.12	I	3.9	2		
Mean			1914.69	+0.017		−0.49					
			1914.92								
Corr				−0.081		−0.20					

B. D.+22° 1991

				h	m	s	°	′	″			
1917												
Mar.	19	Hd.–Fn.	EI	8	42	1.958	+21	52	21.99	0	---	1½
	25	Hd.–Fn.	WI			2.040			22.58	0	---	2
Mean			1917.22	8	42	1.999	+21	52	22.28			
Corr						−0.081			−0.23			

B. D.+17° 1936

				h	m	s	°	′	″			
1917												
Mar.	22	Hd.–Fn.	EI	8	42	15.716	+17	36	35.73	0	---	--
	28	Hd.–Fn.	WI			15.780			36.63	0	---	3
Mean			1917.23	8	42	15.748	+17	36	36.18			
Corr						−0.081			−0.23			

Lacaille 3509

				h	m	s	°	′	″			
1912												
Feb.	14	R.	EII	8	42	18.659	−26	17	1.91	0	7.5	1
Mar.	10	Fn.	EII			18.737			0.73	0	7.6	4½
	31	Hd.	WII			18.610			1.52	0	7.5	4
Apr.	10	R.	WII			18.607			1.43	0	7.5	4
1915												
Dec.	4	Fn.	EI			18.692			1.28	0	7.5	3
	6	Hd.	WI			18.761			2.60	0	7.5	3
	8	Wy.	WI			18.698			2.62	0	7.5	3½
1916												
Jan.	3	Wy.	EI			18.675			1.23	0	8.0	4
	7	Wy.	EI			18.629			1.10	0	7.5	3½
Mean			1914.30	8	42	18.674	−26	17	1.60			
Corr						−0.081			−0.02			

Piazzi VIII 167

				h	m	s	°	′	″			
1913												
Feb.	28	Fn.	EII	8	42	41.316	−1	33	60.10	0	5.8	3½
Mar.	3	Fn.	EII			41.322			60.85	0	---	3½
	22	Hd.	WII			41.376			60.15	0	6.0	2
Apr.	5	Hd.	WII			41.356			60.37	0	6.0	3
	6	R.	WII			41.359			60.80	0	5.0	2
Nov.	22	R.	WI			41.331			59.89	I	4.9	2
	24	Hd.	WI			41.353			60.41	0	5.5	3
Dec.	12	Fn.	EI			41.369			61.07	0	6.0	3½
	13	R.	EI			41.355			60.83	0	---	5
Mean			1913.53	8	42	41.349	−1	34	0.50			
Corr						−0.081			−0.17			

Bradley 1247

				h	m	s	°	′	″			
1912												
Feb.	9	Hd.	EII	8	45	54.755	+44	3	44.54	0	5.5	3½
	13	Hd.	EII			54.755			44.75	0	5.8	--
	23	Hd.	WII			54.714			44.88	0	5.5	--
	28	R.	WII			54.748			44.32	0	5.5	2
1915												
Dec.	22	Fn.	WI			54.705			43.62	0	5.5	3
	23	Hd.	WI			54.650			44.61	0	6.0	3

1916			h m s	° ′ ″		
Jan. 7	Wy.	EI	54.697	44.76	0	6.0 2½
8	Fn.	EI	54.735	44.01	0	6.0 2½
Mean	1914.07		8 45 54.720	+44 3 44.44		
Corr			−0.081	−0.28		

Bradley 1241

1912			h m s	° ′ ″		
Dec. 28	R.	WII	8 45 58.22	+62 17 58.81	0	6.0 2
30	Fn.	WII	58.18	59.38	0	5.7 3½
1913						
Jan. 18	R.	EII	58.10	59.54	0	5.5 2
19	R.	EII	58.19	59.46	0	6.0 2½
Nov. 20	Hd.	WI	58.28	59.32	0	6.0 2
21	Fn.	WI	58.21	59.48	0	... 1½
Dec. 3	R.	EI	58.14	59.05	0	5.2 2
5	R.	EI	58.20	58.89	0	5.5 3½
Mean	1913.46		8 45 58.190	+62 17 59.24		
Corr			−0.081	−0.32		

Rümker 2653

1912			h m s	° ′ ″		
Mar. 17	R.	EII	8 46 0.062	+59 23 38.61	0	7.0 2
22	Hd.	EII	0.026	39.52	0	... ...
Apr. 3	R.	WII	0.134	38.73	0	6.5 3
8	Fn.	WII	0.077	37.95	0	6.5 1½
1915						
Dec. 10	Hd.	WI	0.076	38.58	0	6.5 2
21	Hd.	WI	0.065	38.64	0	6.5 2½
1916						
Jan. 14	Hd.	EI	0.088	38.45	0	6.0 2
20	Wy.	EI	0.097	38.00	0	7.0 3
Mean	1914.12		8 46 0.078	+59 23 38.56		
Corr			−0.081	−0.32		

Bradley 1250

1912			h m s	° ′ ″		
Mar. 13	Fn.	EII	8 46 0.843	+15 41 6.23	0	6.6 3½
16	Fn.	EII	0.775	5.93	0	6.6 1½
25	Fn.	WII	0.784	6.30	0	6.7 1½
26	Hd.	WII	0.824	5.64	0	6.5 ..
1915						
Nov. 30	Hd.	EI	0.829	6.51	0	6.5 3
Dec. 2	Hd.	EI	0.743	6.71	0	... 2
8	Wy.	WI	0.784	6.09	0	6.0 2½
9	Fn.	WI	0.733	5.71	0	6.5 2½
Mean	1914.07		8 46 0.789	+15 41 6.14		
Corr			−0.081	−0.22		

Piazzi VIII 188

1912			h m s	° ′ ″		
Dec. 3	R.	WII	8 46 15.835	−29 7 39.95	0	... 3
13	Fn.	EII	15.828	39.87	0	6.7 3½
19	R.	EII	15.944	39.73	0	7.5 3
22	R.	WII	15.838	39.14	0	6.5 2½
1914						
Jan. 5	Hd.	EI	15.871	38.58	0	6.5 3½
8	Hd.	EI	15.896	39.69	0	... 3½
27	R.	WI	15.916	40.79	0	... 5
31	Fn.	WI	15.868	38.01	0	6.5 3½
Feb. 17	Wy.	WI	15.869	41.26	0	7.0 3½
Mean	1913.57		8 46 15.874	−29 7 39.67		
Corr			−0.081	+0.01		

Fedorenko 1373

1913			h m s	° ′ ″		
Jan. 14	R.	WII	8 46 42.51	+78 29 18.27	0	7.5 1
21	R.	EII	42.19	18.31	0	7.0 2
22	Fn.	EII	42.43	19.25	0	... 3
29	Fn.	WII	42.44	18.95	0	7.5 2½

1914			h m s	° ′ ″		
Jan. 9	R.	EI	42.29	18.86	0	8.0 3½
15	Hd.	EI	42.25	19.26	0	7.5 3
17	Wy.	WI	42.35	19.49	0	7.5 3
28	Fn.	WI	42.29	18.85	0	7.5 3
Feb. 2	Hd.	WI	42.30	18.89	0	... 3
Mean	1913.61		8 46 42.339	+78 29 18.90		
Corr			−0.081	−0.36		

Fedorenko 1373 s. p.

1911			h m s	° ′ ″		
Sept. 13	R.	WII	8 46 42.32	+78 29 18.27	0	7.0 1
18	Fn.	WII	42.22	17.65	0	7.3 3
25	Fn.	EII	42.31	16.77	0	6.8 4½
26	Hd.	EII	42.41	18.92	0	7.5 5
1915						
July 6	Fn.	WI	42.07	18.31	0	8.0 3
8	Hd.	WI	42.25	18.14	0	7.5 3½
20	Hd.	EI	42.35	17.20	0	7.8 3
23	Hd.	EI	42.43	17.24	0	8.0 3
Mean	1913.63		8 46 42.295	+78 29 17.81		
Corr			−0.081	+0.50		

ρ^1 Cancri

1912			h m s	° ′ ″		
Feb. 17	R.	EII	8 47 14.263	+28 40 30.50	0	... 1
Mar. 1	Hd.	WII	14.307	30.01	0	6.0 2
2	R.	WII	14.283	29.97	0	6.0 1
9	R.	EII	14.309	30.49	0	6.0 1½
1915						
Nov. 15	Wy.	WI	14.128	28.81	0	6.0 2½
16	Hd.	WI	14.155	29.24	0	6.0 3
27	Wy.	EI	14.167	28.88	0	5.5 2
29	Wy.	EI	14.191	28.87	0	6.0 3
Mean	1914.03		8 47 14.225	+28 40 29.60		
Corr			−0.081	−0.25		

σ^2 Cancri *mean*

			h m s	° ′ ″		
			8 48 45.424	+30 55 14.91		
1913						
Jan. 25	R.	EII	−0.022	−0.86	0	... 2½
Feb. 4	R.	WII	−0.030	+0.32	0	... 2½
7	Fn.	WII	−0.058	−0.36	0	5.8 3
17	Fn.	EII	+0.029	−0.40	0	6.0 2
Nov. 22	R.	WI	−0.002	+0.27	0	... 2
24	Hd.	WI	−0.037	0.00	0	5.5 3
Dec. 8	Hd.	EI	+0.018	−0.42	0	... 3
11	Hd.	EI	+0.009	−0.73	0	... 2
Mean	1913.51		−0.012	−0.27		
Corr			−0.081	−0.25		

Lalande 17586

1912			h m s	° ′ ″		
Mar. 30	R.	WII	8 49 51.556	−8 25 8.63	0	... 1
31	Hd.	WII	51.605	8.78	0	6.8 3
Apr. 5	Hd.	EII	51.612	9.15	0	... 2
11	Fn.	EII	51.604	9.14	0	... 3½
1915						
Dec. 23	Hd.	WI	51.578	9.39	0	7.5 3
1916						
Jan. 3	Wy.	EI	51.598	9.20	0	7.5 3½
14	Hd.	EI	51.593	8.73	0	7.5 3½
Feb. 9	Hd.	WI	51.601	9.84	0	... 3½
Mean	1914.15		8 49 51.593	−8 25 9.11		
Corr			−0.081	−0.15		

ζ Hydræ

h m s ° ′ ″
8 50 38.254 +6 17 18.96

				s	″	″			
1912									
Jan.	27	R.	EII	−0.021		----	I	3.9	3
Feb.	22	R.	WII	−0.022		----	I	---	2½
Mar.	18	Fn.	EII	−0.036		+0.04	I	3.3	3
	22	Hd.	EII	+0.023		−0.30	I	2.9	2
Apr.	3	R.	WII	+0.011		----	I	2.9	2½
	4	Fn.	EII	−0.015		+0.15	I	2.9	2
	8	Fn.	WII	−0.003		----	I	---	1½
	9	Hd.	WII	+0.004		−0.18	I	2.9	3
	10	R.	WII	−0.022		+0.04	I	---	3½
	16	Hd.	EII	−0.003		−0.78	I	---	2
	19	Hd.	EII	−0.001		−0.19	I	2.9	3
Sept.	*15*	*Hd.*	*WII*	-----	*−0.98*	*−0.96*	*0*	---	*3*
	19	*Hd.*	*WII*	*+0.021*	*−0.32*	*−0.25*	*0*	---	--
	29	*R.*	*EII*	*+0.107*	*−0.04*	*−0.02*	*0*	---	*3*
	30	*Hd.*	*EII*	*−0.021*	*−0.02*	*−0.02*	*0*	---	--
Oct.	*1*	*Hd.*	*EII*	*−0.031*	*+0.28*	*+0.24*	*0*	---	--
	3	*Hd.*	*EII*	*−0.049*	*−0.68*	*−0.68*	*0*	---	--
	4	*Hd.*	*EII*	*+0.003*	*−0.81*	*−0.82*	*0*	---	--
	6	*Hd.*	*WII*	*−0.011*	*−0.16*	*−0.18*	*0*	---	*3*
	7	*Hd.*	*WII*	*−0.026*	*−1.08*	*−1.06*	*0*	---	*3*
	9	*Hd.*	*WII*	*−0.043*	*−0.51*	*−0.51*	*0*	---	*2*
	10	*Hd.*	*WII*	*−0.022*	*−0.41*	*−0.41*	*0*	---	--
Dec.	19	R.	EII	−0.012		----	I	3.4	2
	22	R.	WII	−0.042		----	I	3.4	2
1913									
Jan.	3	Fn.	WII	+0.001		+0.29	I	3.1	3½
	18	R.	EII	−0.002		----	II	3.1	2
	19	R.	EII	+0.005		+0.15	I	3.4	2½
	27	Fn.	EII	−0.036		−0.08	I	2.9	2½
Feb.	6	R.	WII	+0.004		−1.01	I	3.4	2
	12	Fn.	WII	−0.012		+0.40	I	2.9	2
	15	R.	WII	−0.030		----	I	---	3
	19	Fn.	EII	−0.010		----	I	3.2	2½
	23	R.	EII	−0.022		----	0	---	2
	28	Fn.	EII	−0.017		+0.09	I	2.9	3½
Mar.	7	Fn.	EII	−0.026		−0.04	I	2.9	2
	11	Hd.	EII	−0.023		−0.01	I	3.4	2
	20	R.	WII	−0.045		−0.40	I	2.9	3
	21	Fn.	WII	−0.007		−0.62	I	2.9	3½
	22	Hd.	WII	+0.023		+0.15	I	2.9	2
	24	Fn.	EII	+0.004		−0.69	I	---	3½
	28	Fn.	EII	−0.016		+0.08	I	2.9	2½
	29	Hd.	EII	0.000		−0.07	I	2.9	2
Apr.	5	Hd.	WII	+0.021		+0.33	I	3.1	3
Dec.	3	R.	EI	+0.032		----	II	3.1	2½
	5	R.	EI	−0.012		----	I	2.9	2½
	9	Fn.	EI	−0.041		−0.43	0	---	2½
	18	Hd.	WI	+0.004		−0.34	I	3.7	2
	19	Fn.	WI	−0.007		−0.21	I	2.9	2
	20	R.	WI	+0.023		−0.16	I	---	3
	26	Fn.	WI	−0.033		+0.19	I	---	2½
1914									
Jan.	27	R.	WI	−0.005		----	I	3.4	3½
	31	Fn.	WI	−0.015		+0.87	I	3.4	2½
Feb.	26	Fn.	EI	+0.008		+0.12	I	3.9	2½
Mar.	10	Wy.	WI	+0.019		−0.13	I	2.9	2
	12	Fn.	WI	−0.002		−0.62	I	3.4	1½
	13	Wy	WI	−0.003		−0.47	I	2.9	2½
	14	Hd.	WI	−0.009		−0.35	I	3.4	3
	18	Hd.	EI	+0.001		+0.53	I	2.9	3½
	23	Fn.	EI	−0.023		+0.13	I	3.4	2½
	26	Fn.	EI	−0.008		+0.02	I	2.9	3½
Apr.	3	Wy.	WI	0.000		−0.77	I	2.9	2
	4	Hd.	WI	+0.013		----	0	---	2
	11	Hd.	EI	−0.030		-----	0	---	3
Sept.	*8*	*Fn.*	*EI*	*−0.006*	*+0.02*	*+0.10*	*0*	---	*3½*
	9	*An.*	*EI*	-----	*−0.88*	*−0.78*	*0*	---	--
	14	*An.*	*EI*	-----	*−0.62*	*−0.53*	*0*	---	*3½*
	17	*An.*	*EI*	*+0.009*	*−0.55*	*−0.54*	*0*	---	*3½*
	20	*Hd.*	*EI*	*−0.020*	*−0.37*	*−0.33*	*0*	---	*3*
	21	*Wy.*	*EI*	*−0.075*	*+0.38*	*+0.40*	*0*	---	*3½*
	23	*Hd.*	*EI*	-----	*−0.01*	*+0.03*	*0*	---	*3*
	25	*An.*	*EI*	*−0.029*	*−1.10*	*−1.08*	*0*	---	--
1915									
Mar.	29	Fn.	EI	−0.010		+0.04	I	3.4	2
	30	Wy.	EI	−0.042		----	I	---	3
	31	An.	EI	−0.026		−0.27	I	3.9	3
Apr.	1	Fn.	EI	−0.024		+0.05	I	3.4	2½
	12	Hd.	WI	−0.015		+0.91	I	---	3
	13	Fn.	WI	+0.009		+0.30	I	3.4	2½
	14	An.	WI	−0.024		----	I	---	2
	17	An.	WI	−0.025		−0.20	I	3.9	2½
Sept.	*9*	*Hd.*	*WI*	*−0.014*	*−1.26*	*−1.22*	*0*	---	*3*
	12	*Hd.*	*EI*	*+0.021*	*−1.11*	*−1.06*	*0*	---	*3*
	15	*Wy.*	*EI*	-----	*−0.39*	*−0.33*	*0*	---	*3*
	16	*Hd.*	*EI*	-----	*−0.13*	*−0.06*	*0*	---	*3*
	19	*Hd.*	*EI*	*+0.072*	*−0.02*	*+0.05*	*0*	---	*3*
	21	*Hd.*	*EI*	*+0.006*	*−0.30*	*−0.26*	*0*	---	*3*
	22	*Hd.*	*EI*	*−0.007*	*−0.69*	*−0.65*	*0*	---	*3*
	23	*Wy.*	*EI*	-----	*−0.22*	*−0.22*	*0*	---	*4*
	26	*Hd.*	*EI*	*−0.023*	*−0.69*	*−0.59*	*0*	---	*3*
	27	*Fn.*	*EI*	*−0.065*	*−0.33*	*−0.28*	*0*	---	*3*
	29	*Hd.*	*EI*	-----	*−0.11*	*−0.10*	*0*	---	*3*
Oct.	*3*	*Wy.*	*WI*	*+0.041*	----	----	*0*	---	*3*
	8	*Fn.*	*WI*	*−0.062*	*−0.24*	*−0.23*	*0*	---	*3½*
	10	*Fn.*	*WI*	*+0.002*	*+0.05*	*+0.08*	*0*	---	*3*
	25	*Fn.*	*WI*	-----	*+0.09*	*+0.12*	*0*	---	*3*
Nov.	15	Wy.	WI	−0.025		----	I	3.4	2½
	24	Wy.	EI	+0.012		----	I	2.9	2½
Dec.	10	Hd.	WI	−0.011		----	I	3.4	2
1916									
Mar.	5	Fn.	WI	+0.002		+0.24	0	---	2½
	10	Fn.	WI	+0.006		----	I	3.4	3
Sept.	*19*	*Wy.*	*EI*	*+0.022*	----	----	*0*	---	*3½*
	21	*Hd.*	*EI*	*+0.016*	*−1.15*	*−1.07*	*0*	---	*3*
	24	*Wy.*	*EI*	*−0.015*	*−0.84*	*−0.82*	*0*	---	*3½*
	25	*Hd.*	*EI*	*−0.022*	*−0.37*	*−0.37*	*0*	---	*2½*
Oct.	*1*	*Wy.*	*WI*	*+0.048*	*−0.46*	*−0.45*	*0*	---	*3*
	8	*Hd.*	*WI*	*−0.015*	*−0.53*	*−0.44*	*0*	---	*3*
	12	*Fn.*	*WI*	*+0.043*	----	----	*0*	---	*3½*
1917									
Mar.	6	Fn.	WI	+0.004		−0.38	I	3.4	2
	12	Hd.	EI	−0.020		−0.01	I	2.9	2
	15	Wy.	EI	−0.027		+0.09	I	4.4	3
	25	Hd.	WI	−0.006		----	I	3.4	2
	28	Hd.	WI	+0.009		----	I	3.4	3
	29	Wy.	WI	−0.006		−0.34	I	---	3
	30	Fn.	WI	−0.028		−1.04	I	3.9	2½
Apr.	3	Hd.	WI	−0.023		+0.05	I	3.4	2
	9	Hd.	WI	+0.011		+0.46	I	3.9	3
	10	Fn.	WI	−0.026		−0.73	I	3.4	2½
	16	Fn.	WI	−0.005		−0.07	I	3.9	2½
	23	*Wy.*	*EI*	*−0.060*	*−0.46*	*−0.41*	*I*	---	*2½*
	30	*Hd.*	*EI*	*−0.008*	*−1.02*	*−1.03*	*0*	---	*3½*
May	*1*	*Fn.*	*EI*	*−0.033*	*−1.18*	*−1.14*	*0*	---	*3½*
	10	*Fn.*	*WI*	*−0.027*	*−0.44*	*−0.46*	*0*	---	*3*
June	*25*	*Wy.*	*WII*	*−0.031*	*−0.66*	*−0.53*	*0*	---	*3½*
Sept.	*17*	*Wy.*	*EII*	*−0.006*	*+0.18*	*+0.18*	*0*	---	*3½*
	30	*Hd.*	*WII*	*+0.038*	*−0.22*	*−0.19*	*0*	---	*3*
Oct.	*1*	*Fn.*	*WII*	*−0.001*	*−0.64*	*−0.62*	*0*	---	*3*
	7	*Hd.*	*EII*	-----	*+0.04*	*+0.10*	*0*	---	*3*
1918									
Mar.	15	Fn.	WII	+0.023		−0.28	I	3.4	2
	25	Fn.	WII	−0.034		0.00	I	3.4	2½
	28	Fn.	WII	−0.028		−0.64	I	3.4	1½
Apr.	2	Fn.	EII	−0.038		−0.38	I	3.9	3
	5	Fn.	EII	−0.041		+0.40	I	3.9	2
June	*19*	*Wy.*	*WII*	-----	*+0.05*	*+0.18*	*0*	---	*3½*

Mean	1914.52	−0.010	−0.10
	1914.64		
Corr		−0.081	−0.19

60 Cancri

h m s ° ′ ″
8 51 0.809 +11 58 13.51

1912									
Feb.	13	Hd.	EII	0.809		13.51	0	6.0	2
	14	R.	EII	0.806		13.54	0	---	1
	23	Hd.	WII	0.786		14.20	0	5.7	--
	28	R.	WII	0.810		14.32	0	5.5	3

1915			h m s	° ′ ″		
Dec. 2	Hd.	EI	0.785	13.88	0	... 2
4	Fn.	EI	0.818	13.97	0	5.5 2
8	Wy.	WI	0.809	12.91	0	6.0 2½
9	Fn.	WI	0.785	13.62	0	6.0 2
Mean	1914.03		8 51 0.801	+11 58 13.74		
Corr			−0.081	−0.21		

Lalande 17636

1913			h m s	° ′ ″		
Mar. 5	Fn.	EII	8 51 4.279	−17 53 52.46	0	6.2 3
6	Hd.	EII	4.260	52.89	0	5.5 3½
17	Fn.	WII	4.318	51.52	0	6.0 4
18	Hd.	WII	4.301	52.17	0	5.8 3
1914						
Jan. 29	Wy.	WI	4.419	51.70	0	6.0 5
Feb. 3	Fn.	EI	4.327	.....	0	... 2½
17	Wy.	WI	4.375	52.12	0	6.0 3
27	Wy.	EI	4.361	51.81	0	6.5 3½
Mar. 3	Wy.	WI	4.332	51.84	0	6.0 3½
22	Wy.	EI	4.360	52.21	0	... 3
Mean	1913.76		8 51 4.333	−17 53 52.08		
	1913.73					
Corr			−0.081	−0.09		

Weisse$_2$ VIII 1205

1912			h m s	° ′ ″		
Feb. 8	Fn.	EII	8 51 53.384	+22 12 21.75	0	7.0 3
9	Hd.	EII	53.329	22.73	0	6.5 3
Mar. 7	Fn.	WII	53.379	22.77	0	7.0 2
25	Fn.	WII	53.357	22.50	0	6.8 1½
1915						
Nov. 17	Fn.	WI	53.352	22.86	0	7.0 2½
24	Wy.	EI	53.364	22.26	0	7.0 2
30	Hd.	EI	53.351	22.22	0	6.5 3
Dec. 6	Hd.	WI	53.342	22.28	0	6.5 2
Mean	1914.03		8 51 53.357	+22 12 22.42		
Corr			−0.081	−0.23		

ι Ursæ Majoris

			h m s	° ′ ″		
			8 53 2.919	+48 23 43.24		
1912						
Feb. 17	R.	EII	+0.038	+1.11	0	... ..
Mar. 2	R.	WII	−0.022	+0.02	I	3.4 1
9	R.	EII	−0.006	+1.01	0	... 3
26	Hd.	WII	+0.012	+0.67	I	2.9 ..
1915						
Nov. 15	Wy.	WI	−0.045	+1.08	I	3.4 2
16	Hd.	WI	−0.024	+0.52	I	3.1 2
27	Wy.	EI	+0.079	+0.49	I	2.9 2
29	Wy.	EI	+0.003	+0.08	I	3.4 3
Mean	1914.04		+0.004	+0.62		
Corr			−0.081	−0.29		

α Cancri

			h m s	° ′ ″		
			8 53 34.008	+12 12 23.56		
1912						
Dec. 3	R.	WII	−0.006	+0.04	I	4.4 1½
13	Fn.	EII	−0.005	−0.01	I	4.5 2
19	R.	EII	+0.009	+0.58	I	4.9 2
22	R.	WII	+0.012	+0.84	I	4.4 2
1913						
Nov. 20	Hd.	WI	+0.021	+0.18	I	4.4 2
21	Fn.	WI	+0.032	+0.61	0	... 1½
Dec. 3	R.	EI	+0.003	+0.50	I	3.9 2
5	R.	EI	+0.001	−0.44	I	4.4 2½
Mean	1913.43		+0.008	+0.29		
Corr			−0.081	−0.21		

ρ Ursæ Majoris

1913			h m s	° ′ ″		
Jan. 14	R.	WII	8 54 26.65	+67 58 51.90	I	4.4 1
19	R.	EII	26.66	53.19	I	4.4 2½
21	R.	EII	26.60	52.71	I	4.4 1
29	Fn.	WII	26.64	52.79	0	5.1 1½
1914						
Jan. 9	R.	EI	26.60	52.25	0	5.5 3
15	Hd.	EI	26.64	52.50	I	4.9 3
27	R.	WI	26.63	52.86	0	... 3½
28	Fn.	WI	26.66	51.68	0	5.5 3
Mean	1913.56		8 54 26.635	+67 58 52.48		
Corr			−0.081	−0.34		

ρ Ursæ Majoris s. p.

1911			h m s	° ′ ″		
Aug. 18	Fn.	EII	8 54 26.71	+67 58 52.25	0	... 4
21	Fn.	EII	26.74	52.81	0	5.0 2½
Sept. 2	R.	WII	26.74	49.96	0	... 4½
6	R.	WII	26.56	50.85	0	5.5 3
1915						
June 28	Wy.	EI	26.55	51.20	I	4.9 3½
July 9	Fn.	WI	26.63	50.63	0	6.0 3
13	Fn.	WI	26.67	51.37	0	... 3½
20	Hd.	EI	26.71	51.75	0	6.0 3½
Mean	1913.59		8 54 26.664	+67 58 51.35		
Corr			−0.081	+0.66		

Groombridge 1496

1912			h m s	° ′ ″		
Mar. 10	Fn.	EII	8 54 47.761	+37 57 18.03	0	6.7 2½
13	Fn.	EII	47.690	18.24	0	6.5 2½
30	R.	WII	47.733	18.59	0	... 1
31	Hd.	WII	47.746	18.29	0	6.0 2
1915						
Dec. 10	Hd.	WI	47.693	18.08	0	6.5 2
21	Hd.	WI	47.689	18.13	0	6.5 2
1916						
Jan. 8	Fn.	EI	47.746	17.54	0	6.5 2½
14	Hd.	EI	47.766	18.00	0	6.0 2
Mean	1914.11		8 54 47.728	+37 57 18.11		
Corr			−0.081	−0.27		

10 Ursæ Majoris

1912			h m s	° ′ ″		
Mar. 16	Fn.	EII	8 54 48.052	+42 8 23.17	0	... 2½
17	R.	EII	48.037	22.55	I	4.4 2½
Apr. 3	R.	WII	48.036	22.58	I	4.4 1
8	Fn.	WII	48.017	22.04	0	... 1½
1915						
Dec. 22	Fn.	WI	47.977	22.09	I	4.4 2½
23	Hd.	WI	47.843	21.73	I	3.9 3
1916						
Jan. 3	Wy.	EI	47.883	21.00	I	3.9 2½
7	Wy.	EI	47.922	20.78	I	4.4 2½
Mean	1914.12		8 54 47.971	+42 8 21.99		
Corr			−0.081	−0.27		

Radcliffe 1845, 2218

1912			h m s	° ′ ″		
Dec. 21	R.	EII	8 56 44.55	+84 32 39.87	0	... 1½
28	R.	WII	44.25	40.87	0	6.5 3
30	Fn.	WII	44.52	39.40	0	6.0 3½
1913						
Jan. 18	R.	EII	44.56	40.08	0	7.0 2½
Nov. 22	R.	WI	44.37	.....	0	6.0 2
24	Hd.	WI	44.72	40.20	0	6.0 3
Dec. 8	Hd.	EI	44.37	39.79	0	6.5 3
11	Hd.	EI	44.05	40.27	0	6.0 2
18	Hd.	WI	44.95	40.25	0	6.5 2
Mean	1913.52		8 56 44.482	+84 32 40.09		
	1913.47					
Corr			−0.081	−0.39		

Radcliffe 1845, 2218 s. p.

				h m s	° ′ ″			
1912								
July 30	R.	WII	8	56 44.48	+84 32 38.71	0	---	4
Aug. 1	R.	WII		44.62	38.20	0	---	1
3	R.	EII		44.34	38.53	0	7.5	1½
5	Fn.	EII		44.50	38.91	0	---	2
1914								
July 20	Fn.	EI		44.08	39.23	0	6.5	3½
22	Fn.	EI		44.10	39.28	0	7.5	3
Aug. 15	Fn.	WI		44.87	39.13	0	6.5	3
20	Fn.	WI		44.00	39.25	0	6.5	3
Mean	1913.59		8	56 44.374	+84 32 38.90			
Corr				−0.081	+0.44			

Pulkowa 1855, 1436

				h m s	° ′ ″			
1913								
Jan. 22	Fn.	EII	8	57 22.122	−0 7 49.92	0	6.0	2
25	R.	EII		22.141	49.64	0	---	3½
Feb. 4	R.	WII		22.175	49.94	0	6.0	3½
6	R.	WII		22.140	49.55	0	6.0	2
Dec. 19	Fn.	WI		22.139	49.58	0	5.5	2
20	R.	WI		22.146	49.56	0	6.0	2
26	Fn.	WI		22.140	50.09	0	6.5	2
1914								
Jan. 5	Hd.	EI		22.178	49.65	0	6.0	2
8	Hd.	EI		22.175	50.01	0	6.5	3
Mean	1913.59		8	57 22.151	−0 7 49.77			
Corr				−0.081	−0.18			

44 B. Ursæ Majoris

				h m s	° ′ ″			
1912								
Feb. 8	Fn.	EII	8	57 25.246	+54 38 21.47	0	6.2	3½
9	Hd.	EII		25.280	21.90	0	5.7	3½
23	Hd.	WII		25.159	21.79	0	6.0	--
28	R.	WII		25.246	21.75	0	6.0	3
1915								
Nov. 17	Fn.	WI		25.207	21.76	0	6.0	3
24	Wy.	EI		25.177	21.24	0	5.5	2½
27	Wy.	EI		25.246	20.81	I	5.4	2
Dec. 6	Hd.	WI		25.168	21.24	0	6.0	2
Mean	1914.02		8	57 25.216	+54 38 21.50			
Corr				−0.081	−0.30			

κ Ursæ Majoris

			h m s	° ′ ″			
			8 57 29.203	+47 30 46.64			
1912			s	″	″			
Apr. 10	R.	WII	−0.038		+0.29	I	2.9	2½
11	Fn.	EII	−0.057		−0.81	I	3.4	3
19	Hd.	EII	+0.007		+0.28	I	3.4	3
20	Fn.	WII	+0.018		+0.07	I	3.3	1½
1915								
Dec. 2	Hd.	EI	−0.018		+0.60	I	---	2
4	Fn.	EI	−0.002		+0.71	I	3.9	2
8	Wy.	WI	+0.015		+0.30	I	3.9	2
9	Fn.	WI	−0.027		+0.57	I	3.9	2
1916								
Sept. 18	*Hd.*	*EI*	*−0.081*	*+0.45*	*+0.44*	*0*	---	*3½*
21	*Hd.*	*EI*	*−0.060*	*+0.43*	*+0.41*	*0*	---	*3½*
24	*Wy.*	*EI*	*−0.037*	*+0.43*	*+0.42*	*0*	---	*3*
25	*Hd.*	*EI*	*−0.050*	----	----	*0*	---	*3*
Oct. 1	*Wy.*	*WI*	*+0.041*	*+0.38*	*+0.38*	*0*	---	*3*
8	*Hd.*	*WI*	*+0.011*	*+0.59*	*+0.57*	*0*	---	*2½*
23	*Hd.*	*WI*	*−0.098*	*+0.75*	*+0.75*	*0*	---	*3*
1917								
Mar. 6	Fn.	WI	+0.007		[+3.18]	I	3.4	2
30	Fn.	WI	−0.010		----	I	3.9	2½
Apr. 9	Hd.	WI	−0.006		+1.83	I	3.9	3
10	Fn.	WI	−0.048		+0.90	I	3.9	2½
16	Fn.	WI	−0.010		+1.34	I	3.9	2
23	*Wy.*	*EI*	*−0.053*	*+0.49*	*+0.48*	*I*	---	*2*
30	*Hd.*	*EI*	*−0.052*	*+0.33*	*+0.33*	*0*	---	*3*
1917								
May 1	*Fn.*	*EI*	*−0.028*	*+0.75*	*+0.74*	*0*	---	*3*
3	*Hd.*	*EI*	*−0.059*	*+0.84*	*+0.85*	*0*	---	*2*
10	*Fn.*	*WI*	*−0.005*	*+0.94*	*+0.95*	*0*	---	*3*
Sept. 16	*Hd.*	*EII*	*−0.027*	*+0.45*	*+0.44*	*0*	---	*3*
17	*Wy.*	*EII*	*−0.003*	*+0.03*	*+0.03*	*0*	---	*3*
19	*Hd.*	*WII*	*−0.011*	*+0.60*	*+0.60*	*0*	---	*3*
30	*Hd.*	*WII*	*−0.011*	*+0.46*	*+0.45*	*0*	---	*3*
Oct. 1	*Fn.*	*WII*	*−0.043*	*+0.88*	*+0.88*	*0*	---	*3*
7	*Hd.*	*EII*	-----	*+0.31*	*+0.30*	*0*	---	*2½*
1918								
Mar. 25	Fn.	WII	−0.056		+1.60	I	3.9	2½
Apr. 15	Fn.	EII	−0.039		+0.65	I	---	2
June 19	*Wy.*	*WII*	*−0.046*	*0.00*	*−0.03*	*0*	---	*3½*
Mean	1915.71		−0.018		+0.64			
	1915.48							
Corr			−0.081		−0.28			

B. D.+39° 2193

				h m s	° ′ ″			
1917								
Mar. 9	Fn.	WI	8	58 -----	+39 5 55.18	0	7.0	2
12	Hd.	EI		-----	54.10	0	6.5	2
15	Wy.	EI		-----	54.35	0	7.0	3
29	Wy.	WI		-----	54.39	0	7.0	3
Mean	1917.21		8	58 -----	+39 5 54.50			
Corr				-----	−0.27			

Weisse$_1$ VIII 1442

				h m s	° ′ ″			
1912								
Feb. 13	Hd.	EII	8	59 14.322	−4 48 53.61	0	7.0	--
14	R.	EII		14.367	53.54	0	7.5	1½
Mar. 2	R.	WII		14.347	53.40	0	7.5	2
7	Fn.	WII		14.392	53.83	0	---	--
1915								
Nov. 15	Wy.	WI		14.395	53.08	0	7.0	2½
16	Hd.	WI		14.355	54.19	0	7.0	2
29	Wy.	EI		14.363	53.87	0	7.0	3½
30	Hd.	EI		14.399	53.40	0	6.5	3
Mean	1914.02		8	59 14.368	−4 48 53.62			
Corr				−0.081	−0.16			

145 B. Lyncis

				h m s	° ′ ″			
1915								
Mar. 29	Fn.	EI	9	0 48.496	+38 48 -----	0	5.0	3
Apr. 1	Fn.	EI		48.514	-----	0	5.5	2
15	Hd.	WI		48.517	-----	I	4.4	2
1917								
Mar. 15	Wy.	EI		------	43.94	0	5.5	3
19	Fn.	EI		48.511	44.42	0	5.0	1½
25	Hd.	WI		48.524	-----	I	3.9	2
29	Wy.	WI		------	45.74	I	4.4	3½
30	Fn.	WI		------	44.92	0	5.5	2½
1918								
Mar. 18	Wy.	WII		48.525	-----	0	---	2½
28	Fn.	WII		48.487	-----	0	5.0	1½
Apr. 2	Fn.	EII		48.462	-----	0	5.0	3
5	Fn.	EII		48.572	-----	0	5.0	2
Mean	1917.02		9	0 48.512	+38 48 44.76			
	1917.22							
Corr				−0.081	−0.27			

ω Hydræ

				h m s	° ′ ″			
1912								
Dec. 13	Fn.	EII	9	1 14.167	+5 27 8.86	0	5.4	2
19	R.	EII		14.182	8.40	0	5.5	2
1913								
Jan. 3	Fn.	WII		14.160	8.54	0	5.8	3½
14	R.	WII		14.162	8.63	I	4.4	1½
Nov. 20	Hd.	WI		14.180	8.37	I	4.9	3
21	Fn.	WI		14.199	8.36	0	---	1½
Dec. 3	R.	EI		14.187	8.54	I	4.4	2
5	R.	EI		14.167	8.15	0	5.0	3
Mean	1913.45		9	1 14.176	+5 27 8.48			
Corr				−0.081	−0.19			

σ^2 Ursæ Majoris [1]

				h	m	s	°	′	″			
				9	2	29.372	+67	30	2.09			
1912												
Feb. 17	R.	EII		−0.09			+0.21	0	...	1		
Mar. 10	Fn.	EII		−0.17			−0.01	0	5.0	2½		
25	Fn.	WII		−0.08			+0.02	0	5.0	1½		
26	Hd.	WII		−0.19			−0.22	I	4.9	..		
1915												
Feb. 10	Hd.–An.	EI		....			−0.63	I	4.4	2		
17	Fn.–Wy.	EI		....			+0.16	0	5.0	2		
18	Hd.–An.	EI		....			+0.33	0	...	3		R.
19	Fn.–Wy.	EI		....			−0.16	0	...	2½		R.
20	An.–Hd.	WI		....			−0.44	I	4.9	2		
21	An.–Hd.	WI		....			+0.53	0	...	3		R.
Mar. 1	Wy.–Fn.	WI		....			+0.65	0	...	3		R.
8	Wy.–Fn.	WI		....			−0.51	I	3.9	3		
9	Wy.–Fn.	WI		....			−0.85	I	4.9	3		
Dec. 2	Hd.	EI		−0.23			−0.16	0	...	2		
4	Fn.	EI		−0.20			+0.01	0	5.0	2		
8	Wy.	WI		−0.11			−0.16	I	4.9	3		
9	Fn.	WI		−0.11			+1.26	0	5.0	1½		
1916												
Mar. 23	Hd.–Wy.	WI		....			−0.20	I	4.4	2		
24	Hd.–Wy.	WI		....			−0.03	0	...	3		R.
31	Hd.–Wy.	EI		....			−0.04	I	4.9	2		
Apr. 10	Hd.–Wy.	EI		....			−0.01	0	...	2		R.
13	Hd.–Fn.	EI		....			−0.88	0	...	3		R.
15	Hd.–Fn.	EI		....			−0.50	I	4.4	2½		
18	Hd.–Fn.	EI		....			−0.57	0	...	3		R.
19	Hd.–Fn.	WI		....			+0.51	0	...	3		R.
20	Hd.–Wy.	WI		....			+0.20	0	...	3		
Mean		1914.06		−0.148			−0.11					
		1914.90										
Corr				−0.081			−0.33					

σ^2 Ursæ Majoris S. P.

				h	m	s	°	′	″			
				9	2	29.372	+67	30	2.16			
1911												
Aug. 18	Fn.	EII		−0.21			−1.01	0	...	4		
21	Fn.	EII		−0.14			−1.15	0	...	..		
Sept. 2	R.	WII		−0.29			....	0	...	5		
6	R.	WII		−0.20			−2.01	0	6.0	3		
1915												
Aug. 12	Fn.	EI		−0.18			−0.99	0	6.0	3½		
13	An.	EI		....			−0.71	0	6.5	3½		
21	Wy.	WI		+0.01			−2.33	0	6.5	4		
25	Wy.	WI		−0.07			+0.21	0	6.5	3½		
Mean		1913.36		−0.154			−1.14					
		1913.92										
Corr				−0.081			+0.67					

τ Cancri

				h	m	s	°	′	″			
1912												
Mar. 13	Fn.	EII		9	2	36.056	+30	0	59.27	0	...	..
16	Fn.	EII				36.055			59.66	0	6.3	2
30	R.	WII				36.042			60.15	0	...	1
31	Hd.	WII				36.055			59.91	0	6.0	2
1915												
Nov. 17	Fn.	WI				35.998			59.95	0	5.5	2½
24	Wy.	EI				36.041			59.62	0	5.5	2½
27	Wy.	EI				36.060			59.65	I	4.9	2
Dec. 6	Hd.	WI				36.028			59.44	0	6.0	3
Mean		1914.06		9	2	36.042	+30	0	59.71			
Corr						−0.081			−0.25			

κ Cancri

				h	m	s	°	′	″			
				9	2	52.450	+11	1	51.07			
1913												
Jan. 19	R.	EII		+0.007			−0.10	0	5.5	2		
21	R.	EII		+0.025			+0.32	0	5.5	2		
1913					s			″				
Jan. 29	Fn.	WII		−0.030			−0.13	0	5.6	2		
Feb. 4	R.	WII		+0.006			+0.07	0	...	3		
Nov. 22	R.	WI		−0.029			+0.32	0	5.5	2		
24	Hd.	WI		+0.015			+0.45	0	5.5	2		
Dec. 8	Hd.	EI		+0.007			+0.08	0	6.0	3		
11	Hd.	EI		+0.018			+0.10	0	5.5	2		
Mean		1913.50		+0.002			+0.14					
Corr				−0.081			−0.21					

Bradley 1286

				h	m	s	°	′	″			
1912												
Feb. 8	Fn.	EII		9	3	29.862	+27	0	6.57	0	5.9	3
9	Hd.	EII				29.825			6.27	0	6.0	..
23	Hd.	WII				29.788			6.69	0	6.0	..
28	R.	WII				29.846			6.81	0	6.5	3
1915												
Mar. 29	Fn.	EI				29.805			5.29	0	6.5	3
31	An.	EI				29.772			6.22	0	6.0	3
Apr. 12	Hd.	WI				29.761			6.46	0	...	3
13	Fn.	WI				29.808			5.82	0	6.0	2
Mean		1913.70		9	3	29.808	+27	0	6.27			
Corr						−0.081			−0.24			

τ Ursæ Majoris

				h	m	s	°	′	″			
1913												
Feb. 15	R.	WII		9	3	30.63	+63	52	49.04	I	4.9	2
17	Fn.	EII				30.72			49.20	0	5.3	2
28	Fn.	EII				30.68			48.73	0	5.0	3
Mar. 20	R.	WII				30.71			49.02	I	4.9	2½
Dec. 29	Hd.	WI				30.74			49.01	I	4.9	2
30	Fn.	WI				30.65			49.55	0	...	2½
1914												
Jan. 8	Hd.	EI				30.68			49.07	0	6.0	2
9	R.	EI				30.64			49.25	0	5.5	2
Mean		1913.58		9	3	30.681	+63	52	49.11			
Corr						−0.081			−0.33			

κ Pyxidis

				h	m	s	°	′	″			
1913												
Mar. 5	Fn.	EII		9	4	5.800	−25	29	42.54	0	5.5	3½
6	Hd.	EII				5.799			42.43	0	...	4
17	Fn.	WII				5.853			41.63	0	5.0	3½
18	Hd.	WII				5.853			41.71	I	4.9	3½
1914												
Jan. 28	Fn.	WI				5.886			41.59	0	5.5	4
29	Wy.	WI				5.805			42.18	0	5.5	4½
Feb. 26	Fn.	EI				5.842			41.30	0	5.5	3½
27	Wy.	EI				5.893			42.75	0	5.0	3
Mean		1913.66		9	4	5.841	−25	29	42.02			
Corr						−0.081			−0.03			

ξ Cancri

				h	m	s	°	′	″			
1912												
Feb. 13	Hd.	EII		9	4	11.255	+22	24	36.05	0	5.5	2
14	R.	EII				11.242			35.83	0	5.5	1
Mar. 2	R.	WII				11.200			36.52	0	5.5	1½
7	Fn.	WII				11.258			35.95	0	5.1	2
1915												
Nov. 15	Wy.	WI				11.254			36.08	I	4.9	2½
16	Hd.	WI				11.246			36.13	I	4.9	2
29	Wy.	EI				11.251			35.74	I	4.9	3
30	Hd.	EI				11.252			35.78	0	5.8	3
Mean		1914.02		9	4	11.245	+22	24	36.01			
Corr						−0.081			−0.23			

[1] Double; mean observed.

λ Argûs

				h	m	s	°	′	″			
				9	4	-----	−43	4	8.50			
1912												
Apr.	20	Fn.	WII			-----			+0.6	0	---	4
Nov.	3	Hd.	WII			-----			+0.6	0	---	5
	4	R.	WII			-----			−1.0	0	---	--
	8	Hd.	WII			-----			−1.9	0	---	5
	18	Hd.	EII			-----			+0.8	0	---	4½
1913												
Nov.	5	R.	EI			-----			−0.3	I	---	--
	6	Hd.	EI			-----			+1.0	I	---	3½
	18	Fn.	WI			-----			−1.3	0	---	4
1914												
Jan.	5	Hd.	EI			-----			−1.5	0	---	5
	31	Fn.	WI			-----			+0.2	0	---	5
Mar.	14	Hd.	WI			-----			−1.8	0	---	5
Apr.	3	Wy.	WI			-----			−0.5	0	---	4
	9	Fn.	WI			-----			+1.3	0	---	4
	13	Fn.	EI			-----			+1.2	0	---	4
	21	Hd.	EI			-----			+3.1	I	---	3½
Nov.	12	Wy.	WI			-----			−0.8	0	---	4½
1915												
Apr.	7	An.	EI			-----			+0.3	0	---	4½
	8	Hd.	EI			-----			0.0	I	---	3½
	14	An.	WI			-----			+0.6	I	---	4
	15	Hd.	WI			-----			−1.4	I	---	3½
1917												
Mar.	6	Fn.	WI			-----			−3.8	0	---	3½
Apr.	9	Hd.	WI			-----			−1.9	0	---	4
	10	Fn.	WI			-----			−0.5	0	---	4½
	16	Fn.	WI			-----			−0.5	0	---	4
	23	Wy.	EI			-----			+0.9	0	---	4½
1918												
Mar.	25	Fn.	WII			-----			−2.4	0	---	4½
	28	Fn.	WII			-----			−2.3	0	---	3½
Apr.	2	Fn.	EII			-----			−1.1	0	---	4
	5	Fn.	EII			-----			−0.1	0	---	3½
	15	Fn.	EII			-----			+0.7	0	---	3½
Mean		1915.28				-----			−0.39			
Corr						-----			+0.55			

Lacaille 3692

				h	m	s	°	′	″			
1913												
Jan.	27	Fn.	EII	9	4	48.562	−26	24	10.88	0	---	4
Feb.	7	Fn.	WII			48.582			11.63	0	---	4½
	14	Fn.	WII			48.558			12.92	0	6.5	3½
	18	Hd.	EII			48.519			11.48	0	6.2	3
	25	Hd.	EII			48.507			11.42	0	6.5	2½
1914												
Feb.	2	Hd.	WI			48.596			11.60	0	---	4
Mar.	3	Wy.	WI			48.476			11.77	0	7.0	3½
	18	Hd.	EI			48.544			11.62	0	7.0	3½
	20	Wy.	EI			48.556			12.22	0	6.0	3½
Mean		1913.59		9	4	48.544	−26	24	11.73			
Corr						−0.081			−0.02			

Paris 11266

				h	m	s	°	′	″			
1912												
Mar.	17	R.	EII	9	4	52.603	−11	59	33.80	0	6.0	4
	22	Hd.	EII			52.629			33.64	0	---	--
Apr.	3	R.	WII			52.573			32.74	0	6.0	2½
	8	Fn.	WII			52.607			33.44	0	6.0	3
1915												
Dec.	10	Hd.	WI			52.639			33.67	0	6.0	3
	21	Hd.	WI			52.610			33.77	0	6.0	3
1916												
Jan.	3	Wy.	EI			52.593			33.72	0	6.5	3
	7	Wy.	EI			52.618			33.85	0	6.0	3
Mean		1914.11		9	4	52.609	−11	59	33.58			
Corr						−0.081			−0.13			

Lalande 18097

				h	m	s	°	′	″			
1913												
Mar.	21	Fn.	WII	9	5	4.374	−20	33	44.00	0	8.5	4
	22	Hd.	WII			4.364			43.82	0	7.5	3
	28	Fn.	EII			4.381			43.50	0	8.5	3
	29	Hd.	EII			4.400			43.79	0	7.5	3
Apr.	5	Hd.	WII			4.391			43.64	0	7.5	2½
	6	R.	WII			4.390			43.60	0	8.0	3
1914												
Mar.	4	Hd.	WI			4.378			44.48	0	8.0	3½
	12	Fn.	WI			4.405			44.07	0	7.5	2½
	23	Fn.	EI			4.359			44.32	0	7.5	3
	26	Fn.	EI			4.450			44.33	0	8.0	3
Mean		1913.62		9	5	4.389	−20	33	43.96			
Corr						−0.081			−0.07			

ϵ Pyxidis

				h	m	s	°	′	″			
1912												
Apr.	5	Hd.	EII	9	6	7.599	−29	59	51.63	0	---	--
	6	R.	EII			7.577			51.93	0	---	5
	9	Hd.	WII			7.553			51.70	0	---	5
	10	R.	WII			7.479			51.66	0	6.0	4
1915												
Dec.	22	Fn.	WI			7.638			52.44	0	7.0	3½
	23	Hd.	WI			7.577			51.10	0	---	4
1916												
Jan.	8	Fn.	EI			7.576			51.88	0	6.0	3½
	14	Hd.	EI			7.523			51.15	0	6.0	3
Mean		1914.14		9	6	7.565	−29	59	51.69			
Corr						−0.081			+0.03			

Bradley 1296

				h	m	s	°	′	″			
1912												
Dec.	12	R.	EII	9	6	53.705	+18	24	46.44	0	7.5	2½
	13	Fn.	EII			53.687			-----	0	6.5	2
	28	R.	WII			53.698			47.98	0	7.5	2
	30	Fn.	WII			53.762			48.16	0	6.7	2
1913												
Jan.	18	R.	EII			53.753			47.65	0	7.5	2
Nov.	20	Hd.	WI			53.723			47.73	0	6.5	2
	21	Fn.	WI			53.730			47.96	0	---	1½
Dec.	3	R.	EI			53.731			47.38	0	6.5	2
	5	R.	EI			53.721			46.87	0	6.0	3
Mean		1913.40		9	6	53.723	+18	24	47.52			
		1913.45										
Corr						−0.081			−0.23			

36 Lyncis

				h	m	s	°	′	″			
1913												
Mar.	7	Fn.	EII	9	7	55.380	+43	35	21.12	0	5.0	2
	11	Hd.	EII			55.315			21.16	0	6.0	2
	21	Fn.	WII			55.308			21.50	0	5.5	3
	22	Hd.	WII			55.336			21.83	0	5.7	2½
Dec.	12	Fn.	EI			55.287			20.16	0	5.0	3
	13	R.	EI			55.303			21.18	0	6.0	3½
	18	Hd.	WI			55.354			21.34	I	4.9	2
	19	Fn.	WI			55.314			21.84	0	5.5	2
Mean		1913.58		9	7	55.325	+43	35	21.27			
Corr						−0.081			−0.28			

B. D. +39° 2223

				h	m	s	°	′	″			
1917												
Mar.	9	Fn.	WI	9	9	-----	+38	58	48.20	0	7.0	2
	12	Hd.	EI			-----			48.88	0	7.0	2
	15	Wy.	EI			-----			48.16	0	7.0	2½
	29	Wy.	WI			-----			48.67	0	---	3½
Mean		1917.21		9	9	-----	+38	58	48.48			
Corr						-----			−0.27			

θ Hydræ

h m s 9 9 41.029 ° ′ ″ +2 41 38.84

				s	″			
1912				s	″			
Feb. 14	R.	EII		+0.013	----	I	4.4	1
Mar. 9	R.	EII		+0.018	----	I	4.4	2
10	Fn.	EII		+0.005	----	I	4.4	3
13	Fn.	EII		+0.026	−0.03	0	5.0	3½
16	Fn.	EII		+0.007	−0.30	I	3.7	2½
17	R.	EII		−0.010	----	I	4.4	2½
18	Fn.	EII		+0.008	+0.18	0	5.3	3
22	Hd.	EII		+0.012	----	I	3.9	2
25	Fn.	WII		−0.006	----	0	---	1½
26	Hd.	WII		+0.008	−0.11	I	3.4	--
30	R.	WII		+0.020	----	0	---	1
31	Hd.	WII		+0.016	----	I	3.9	--
Apr. 3	R.	WII		+0.011	----	I	4.4	2
4	Fn.	EII		+0.002	----	I	3.8	2½
5	Hd.	EII		+0.023	−0.41	I	3.9	--
8	Fn.	WII		+0.013	+0.10	I	3.6	3
9	Hd.	WII		+0.020	+0.19	I	3.4	3
10	R.	WII		+0.002	+0.53	I	3.9	3
11	Fn.	EII		+0.018	+0.29	I	3.8	3½
16	Hd.	EII		−0.006	−0.61	I	---	--
19	Hd.	EII		−0.015	+0.87	I	3.4	3
20	Fn.	WII		+0.011	+0.23	I	3.7	2½
22	Fn.	WII		+0.026	−0.60	0	---	3
Oct. 16	*R.*	*WII*		-----	*−0.35*	*−0.32*	*0*	---	--
17	*Fn.*	*WII*		*+0.033*	*+0.18*	*+0.18*	*0*	---	*1½*
20	*Fn.*	*EII*		-----	*−0.47*	*−0.47*	*0*	---	*2½*
Nov. 16	R.	EII		+0.013	+0.03		0	---	--
1913									
Jan. 3	Fn.	WII		−0.001	+0.39		0	---	--
21	R.	EII		+0.036	−0.11		I	3.9	2½
25	R.	EII		+0.059	+0.33		0	---	5
27	Fn.	EII		+0.026	----		0	---	2½
29	Fn.	WII		+0.030	−0.88		I	3.9	2
Feb. 4	R.	WII		+0.024	−0.27		0	---	--
13	R.	WII		+0.021	+0.03		0	---	2
14	Fn.	WII		+0.010	−0.78		I	3.9	3
15	R.	WII		+0.015	−0.72		I	4.4	3
17	Fn.	EII		−0.006	−0.65		0	---	3
18	Hd.	EII		−0.014	+0.04		I	3.4	2
19	Fn.	EII		+0.026	−0.74		I	3.9	2
25	Hd.	EII		−0.017	−0.08		I	3.9	2
Mar. 3	Fn.	EII		+0.013	−0.31		0	---	3½
6	Hd.	EII		−0.018	−0.53		I	3.4	3
20	R.	WII		+0.022	----		I	3.9	2
24	Fn.	EII		+0.018	----		0	---	3½
27	R.	EII		−0.002	----		I	2.9	2
28	Fn.	EII		−0.001	----		I	3.6	2
29	Hd.	EII		0.000	----		I	3.4	2
Apr. 5	Hd.	WII		−0.007	----		I	3.4	2
6	R.	WII		+0.006	----		I	3.4	2
7	Fn.	WII		+0.058	+0.01		I	3.6	2
8	Hd.	WII		+0.041	+0.22		I	---	2½
16	Hd.	WII		−0.010	−0.19		I	---	2
Nov. 24	Hd.	WI		−0.027	----		I	3.4	2
1914									
Jan. 5	Hd.	EI		+0.029	−0.36		I	---	3
8	Hd.	EI		+0.010	−0.14		0	---	3
28	Fn.	WI		+0.018	----		I	4.4	3
29	Wy.	WI		−0.086	----		I	3.9	4
31	Fn.	WI		+0.027	+0.49		0	---	3
Feb. 2	Hd.	WI		+0.005	−0.54		0	---	3
17	Wy.	WI		−0.007	−0.42		0	4.0	2
26	Fn.	EI		+0.024	----		I	4.4	2½
27	Wy.	EI		+0.006	−0.44		0	---	3
Mar. 3	Wy.	WI		+0.008	−0.52		0	4.5	3
9	Fn.	WI		+0.031	−0.88		0	---	1½
12	Fn.	WI		+0.050	+0.12		I	4.4	2
13	Wy.	WI		+0.026	−0.12		I	3.9	2
14	Hd.	WI		+0.011	----		I	3.9	3
18	Hd.	EI		−0.013	+0.67		I	3.9	3½
23	Fn.	EI		+0.015	−0.04		I	4.4	2½
25	Hd.	EI		+0.022	−0.06		0	---	2
Apr. 5	Hd.	WI		+0.032	+0.59		I	3.4	2
9	Fn.	WI		+0.021	−0.54		I	3.4	2
13	Fn.	EI		+0.002	+0.41		I	3.9	1½

			s	″	″			
1914								
Sept. 27	*Hd.*	*WI*	*0.000*	*−0.40*	*−0.37*	*0*	---	*3*
30	*Hd.*	*WI*	*+0.033*	*−1.79*	*−1.78*	*0*	---	*2½*
Oct. 19	*Wy.*	*EI*	-----	*−0.45*	*−0.42*	*0*	---	*2½*
Nov. 9	An.	WI	−0.006		+0.02	I	4.4	3½
13	Hd.	WI	−0.007		−0.32	I	3.4	3
17	Hd.	EI	+0.022		−0.03	I	3.4	2
20	Wy.	EI	+0.025		----	I	3.4	2½
23	Wy.	EI	−0.013		----	I	3.4	2½
1915								
Feb. 10	Hd.–An.	EI	-----		−1.09	I	---	2 R.
17	Fn.–Wy.	EI	-----		−1.07	I	---	2½ R.
18	Hd.–An.	EI	-----		−0.83	I	3.4	3
19	Fn.–Wy.	EI	-----		−0.50	I	3.9	3
20	An.–Hd.	WI	-----		−1.28	I	---	2 R.
21	An.–Hd.	WI	-----		−0.28	I	5.4	3½
Mar. 8	Wy.–Fn.	WI	-----		−1.24	0	---	-- R.
9	Wy.–Fn.	WI	-----		−1.41	I	---	3 R.
29	Fn.	EI	−0.020		+0.73	I	3.9	3
30	Wy.	EI	+0.022		----	I	---	3
31	An.	EI	−0.025		+0.32	I	3.9	3
Apr. 1	Fn.	EI	+0.004		+0.09	I	4.4	3
7	An.	EI	−0.017		−0.28	I	4.4	3
8	Hd.	EI	+0.005		−0.21	I	3.4	2
12	Hd.	WI	+0.009		+0.48	I	---	3
13	Fn.	WI	+0.017		+0.04	I	3.9	2
14	An.	WI	+0.025		−0.54	I	4.4	2
15	Hd.	WI	−0.004		−0.17	I	3.9	2½
17	An.	WI	+0.028		−0.31	I	4.4	2½
Sept. 22	*Hd.*	*EI*	*−0.023*	*−0.35*	*−0.27*	*0*	---	*3*
26	*Hd.*	*EI*	*−0.020*	*−0.49*	*−0.40*	*0*	---	*3*
27	*Fn.*	*EI*	*−0.014*	*−0.16*	*−0.11*	*0*	---	*3*
Oct. 25	*Fn.*	*WI*	-----	*−0.75*	*−0.74*	*0*	---	*3*
Nov. 17	Fn.	WI	+0.018		----	I	4.4	3
29	Wy.	EI	−0.001		----	I	3.4	3½
30	Hd.	EI	+0.037		----	I	4.4	2
Dec. 2	Hd.	EI	+0.008		----	0	---	2
4	Fn.	EI	+0.021		−0.25	I	4.4	2½
6	Hd.	WI	+0.030		----	I	3.4	2
8	Wy.	WI	+0.025		----	I	3.9	2½
9	Fn.	WI	−0.033		----	I	3.9	2½
10	Hd.	WI	+0.023		−0.97	I	3.4	3
21	Hd.	WI	+0.006		−0.84	I	3.9	2
23	Hd.	WI	+0.046		−0.61	I	3.9	3½
1916								
Jan. 3	Wy.	EI	−0.012		----	I	3.9	3
7	Wy.	EI	+0.005		----	I	4.4	3
14	Hd.	EI	+0.018		−0.67	I	3.4	3
Feb. 9	Hd.	WI	+0.040		−0.42	I	4.4	3
11	Fn.	WI	−0.006		+0.38	0	---	2½
Mar. 5	Fn.	WI	+0.001		+0.88	0	---	2½
9	Fn.	WI	+0.015		−0.36	I	4.4	3
23	Hd.–Wy.	WI	-----		−0.99	0	---	3 R.
24	Hd.–Wy.	WI	-----		−0.18	0	---	3
31	Hd.–Wy.	EI	-----		−1.15	0	---	3 R.
Apr. 10	Hd.–Wy.	EI	-----		−0.26	I	3.4	2
13	Hd.–Fn.	EI	-----		−0.58	0	---	3
15	Hd.–Fn.	EI	-----		−0.36	I	---	2½ R.
18	Hd.–Fn.	EI	-----		−0.42	I	3.9	2½
19	Hd.–Fn.	WI	-----		−0.77	I	4.4	2½
20	Hd.–Wy.	WI	-----		−0.82	0	---	3 R.
Mean	1913.95		+0.010		−0.17			
	1914.17							
Corr			−0.081		−0.19			

Bradley 1297

				h m s	° ′ ″			
1912								
Feb. 9	Hd.	EII		9 9 43.283	+54 23 39.13	0	5.5	--
13	Hd.	EII		43.177	39.18	0	5.8	--
23	Hd.	WII		43.147	39.37	0	5.5	3½
28	R.	WII		43.215	39.02	I	4.4	1½
1915								
Nov. 15	Wy.	WI		43.261	39.54	I	4.9	2½
16	Hd.	WI		43.244	39.85	I	4.9	2
24	Wy.	EI		43.263	38.77	I	4.4	2½
27	Wy.	EI		43.233	38.97	I	4.9	2
Mean	1914.01			9 9 43.228	+54 23 39.23			
Corr				−0.081	−0.30			

Groombridge 1522

			h	m	s	°	′	″			
1913											
Feb. 28	Fn.	EII	9	10	40.12	+74	23	43.74	0	6.8	3½
Mar. 5	Fn.	EII			40.05			43.67	0	---	--
18	Hd.	WII			40.07			42.86	0	6.0	3
20	R.	WII			40.04			43.25	0	6.5	2½
Nov. 22	R.	WI			40.05			43.88	0	6.0	1½
24	Hd.	WI			40.15			43.61	0	6.5	2
Dec. 8	Hd.	EI			39.96			43.90	0	7.0	3½
11	Hd.	EI			39.93			43.39	0	6.5	3
Mean	1913.56		9	10	40.046	+74	23	43.54			
Corr					−0.081			−0.35			

Groombridge 1522 s. p.

			h	m	s	°	′	″			
1912											
July 27	Fn.	WII	9	10	39.97	+74	23	42.03	0	---	3½
Aug. 5	Fn.	EII			40.04			42.34	0	7.3	3
6	R.	EII			40.12			42.58	0	8.0	4
29	R.	WII			40.18			42.97	0	---	3½
1914											
Aug. 7	Hd.	EI			40.16			42.29	0	---	3
15	Fn.	WI			40.21			43.15	0	7.0	3
31	Fn.	WI			40.02			42.67	0	7.0	3
Sept. 16	Wy.	EI			39.92			43.05	0	---	4
Mean	1913.63		9	10	40.078	+74	23	42.64			
Corr					−0.081			+0.54			

Piazzi IX 19

			h	m	s	°	′	″			
1912											
Feb. 14	R.	EII	9	11	29.218	+47	11	34.72	0	---	1
Mar. 2	R.	WII			29.154			35.00	0	6.5	1
9	R.	EII			29.184			35.32	0	7.0	2
25	Fn.	WII			29.252			35.27	0	6.0	1½
1915											
Nov. 17	Fn.	WI			29.166			35.24	0	6.0	2½
29	Wy.	EI			29.228			34.35	0	6.0	3
30	Hd.	EI			29.259			34.82	0	6.5	2
Dec. 6	Hd.	WI			29.220			34.83	0	6.0	2
Mean	1914.04		9	11	29.210	+47	11	34.94			
Corr					−0.081			−0.28			

Weisse$_1$ IX 175

			h	m	s	°	′	″			
1913											
Mar. 28	Fn.	EII	9	12	2.648	+1	6	18.82	0	7.2	2
29	Hd.	EII			2.656			18.70	0	7.0	2
Apr. 5	Hd.	WII			2.641			19.36	0	6.5	2
6	R.	WII			2.663			18.02	0	6.5	2
Nov. 20	Hd.	WI			2.637			19.33	0	7.0	3
21	Fn.	WI			2.685			18.83	0	---	2
Dec. 3	R.	EI			2.685			18.89	0	6.5	2½
5	R.	EI			2.651			17.82	0	6.0	3½
Mean	1913.58		9	12	2.658	+1	6	18.72			
Corr					−0.081			−0.18			

Bradley 1307

			h	m	s	°	′	″			
1912											
Mar. 10	Fn.	EII	9	12	13.619	−5	58	38.19	0	---	--
17	R.	EII			13.621			38.08	0	6.0	3½
26	Hd.	WII			13.628			38.65	0	5.5	3½
31	Hd.	WII			13.641			38.13	0	5.5	2
1915											
Dec. 8	Wy.	WI			13.644			38.34	0	5.5	3
9	Fn.	WI			13.622			40.00	0	5.5	2½
1916											
Jan. 3	Wy.	EI			13.604			38.43	0	6.0	3
7	Wy.	EI			13.636			38.10	0	6.0	3
Mean	1914.10		9	12	13.627	−5	58	38.49			
Corr					−0.081			−0.16			

Weisse$_2$ IX 185

			h	m	s	°	′	″			
1912											
Dec. 13	Fn.	EII	9	12	35.188	+23	27	20.94	0	6.9	1½
19	R.	EII			35.249			21.12	0	7.5	2
28	R.	WII			35.251			21.87	0	6.5	2½
30	Fn.	WII			35.287			22.27	0	7.0	2½
1914											
Jan. 28	Fn.	WI			35.187			21.86	0	7.0	3
29	Wy.	WI			35.201			22.28	0	6.0	3½
Feb. 3	Fn.	EI			35.206			21.57	0	---	2½
26	Fn.	EI			35.246			22.74	0	6.5	2½
Mean	1913.54		9	12	35.227	+23	27	21.83			
Corr					−0.081			−0.24			

83 Cancri

			h	m	s	°	′	″				
			9	13	57.624	+18	5	13.77				
1912												
Mar. 22	Hd.	EII			−0.023			−0.15	0	7.0	--	
Apr. 3	R.	WII			−0.039			+0.67	0	7.5	1	
4	Fn.	EII			−0.016			+0.44	0	6.8	2	
8	Fn.	WII			−0.044			+0.73	0	6.6	1½	
1915												
Feb. 10	Hd.–An.	EI			-----			−0.18	0	6.5	2	
17	Fn.–Wy.	EI			-----			−0.09	0	6.5	2½	
18	Hd.–An.	EI			-----			−0.55	0	---	3	R.
19	Fn.–Wy.	EI			-----			−0.85	0	---	3	R.
20	An.–Hd.	WI			-----			+0.30	0	6.0	2	
21	An.–Hd.	WI			-----			−0.84	0	---	3	R.
Mar. 1	Wy.–Fn.	WI			-----			+0.10	0	---	3	R.
8	Wy.–Fn.	WI			-----			−0.17	0	6.0	2½	
9	Wy.–Fn.	WI			-----			−0.46	0	6.5	3	
Nov. 15	Wy.	WI			−0.032			−0.22	0	7.0	2½	
16	Hd.	WI			−0.029			+0.25	0	6.5	2	
Dec. 2	Hd.	EI			−0.030			+0.11	0	---	2	
1916												
Jan. 8	Fn.	EI			−0.045			+0.19	0	7.0	2½	
Mar. 23	Hd.–Wy.	WI			-----			+0.43	0	7.0	2	
24	Hd.–Wy.	WI			-----			−1.47	0	---	3	R.
31	Hd.–Wy.	EI			-----			+0.01	0	6.5	2	
Apr. 10	Hd.–Wy.	EI			-----			−0.58	0	---	2	R.
13	Hd.–Fn.	EI			-----			−0.49	0	---	3	R.
15	Hd.–Fn.	EI			-----			−0.29	0	6.5	2½	
18	Hd.–Fn.	EI			-----			−0.59	0	---	3	R.
19	Hd.–Fn.	WI			-----			+0.19	0	---	2	R.
20	Hd.–Wy.	WI			-----			+0.08	0	---	3½	
Mean	1914.09				−0.032			+0.10				
	1914.91											
Corr					−0.081			−0.23				

Lalande 18396

			h	m	s	°	′	″			
1913											
Feb. 6	R.	WII	9	14	44.853	−16	25	17.57	0	8.0	4
14	Fn.	WII			44.908			17.85	0	7.5	3½
15	R.	WII			44.838			16.30	0	7.5	3
18	Hd.	EII			44.839			16.03	0	7.2	2
25	Hd.	EII			44.865			15.90	0	7.0	3
1914											
Feb. 9	Hd.	EI			44.898			16.96	0	7.5	4
27	Wy.	EI			44.838			16.24	0	7.0	3
Mar. 3	Wy.	WI			44.882			16.70	0	---	3½
4	Hd.	WI			44.851			16.40	0	7.5	3
12	Fn.	WI			44.876			16.25	0	7.0	2½
Mean	1913.64		9	14	44.865	−16	25	16.62			
Corr					−0.081			−0.11			

B. D.+57° 1214

			h	m	s	°	′	″			
1913											
Mar. 7	Fn.	EII	9	15	7.373	+57	4	52.61	0	5.5	1½
11	Hd.	EII			7.406			51.96	0	6.0	2
18	Hd.	WII			7.335			52.09	0	6.0	3
21	Fn.	WII			7.306			51.95	0	6.0	3

1914				h	m	s	°	′	″			
Mar.	9	Fn.	WI			7.348			52.37	0	---	2
	10	Wy.	WI			7.426			52.33	0	---	3
	13	Wy.	WI			7.332			52.47	0	6.0	2
	18	Hd.	EI			7.399			52.57	0	6.0	3
	20	Wy.	EI			7.333			51.68	0	6.0	3
Mean		1913.76		9	15	7.362	+57	4	52.23			
Corr						−0.081			−0.31			

40 Lyncis

				h	m	s	°	′	″			
				9	15	34.472	+34	46	25.19			
1911						s	″		″			
Oct.	*12*	*Fn.*	*WII*			*−0.012*	*+0.86*		*+0.86*	*0*	---	*3*
	23	*Fn.*	*WII*			*−0.049*	*+1.36*		*+1.36*	*0*	---	--
	24	*R.*	*WII*			*+0.027*	*−0.09*		*−0.09*	*0*	---	--
	25	*R.*	*WII*			*−0.041*	*−0.73*		*−0.72*	*0*	---	--
	29	*R.*	*EII*			*+0.071*	*+0.42*		*+0.42*	*0*	---	--
1912												
Mar.	13	Fn.	EII			+0.018			−0.12	I	2.9	3
	16	Fn.	EII			+0.033			−0.07	I	2.5	2
	18	Fn.	EII			+0.007			0.00	I	2.9	2
	30	R.	WII			+0.048			----	0	---	1
Apr.	5	Hd.	EII			+0.007			−0.12	0	---	2
	6	R.	EII			−0.014			----	I	---	3
	9	Hd.	WII			+0.039			----	I	2.7	3
	10	R.	WII			+0.030			----	I	2.9	2
	20	Fn.	WII			+0.019			−0.06	I	2.7	2
	22	Fn.	WII			+0.065			−0.54	I	3.0	2½
	23	Hd.	WII			+0.055			−0.53	I	2.9	2
Sept.	*9*	*R.*	*EII*			*+0.007*	*−0.75*		*−0.74*	*0*	---	*5*
	10	*Hd.*	*EII*			-----	*−0.03*		*−0.02*	*0*	---	*3*
	12	*Hd.*	*WII*			-----	*−0.63*		*−0.63*	*0*	---	--
	15	*Hd.*	*WII*			-----	*−1.05*		*−1.04*	*0*	---	--
	19	*Hd.*	*WII*			*+0.066*	*−1.04*		*−1.03*	*0*	---	*3*
	27	*R.*	*EII*			*+0.037*	*+0.08*		*+0.08*	*0*	---	--
	29	*R.*	*EII*			*+0.054*	*−0.02*		*−0.02*	*0*	---	*2*
	30	*Hd.*	*EII*			*+0.009*	*−0.02*		*−0.02*	*0*	---	--
Oct.	*1*	*Hd.*	*EII*			*+0.026*	*−0.39*		*−0.39*	*0*	---	--
	2	*Hd.*	*EII*			*−0.040*	*−0.49*		*−0.49*	*0*	---	*3*
	3	*Hd.*	*EII*			*−0.051*	*−0.18*		*−0.17*	*0*	---	*3*
	4	*Hd.*	*EII*			*+0.014*	*−0.37*		*−0.37*	*0*	---	*2*
	6	*Hd.*	*WII*			*+0.032*	*−0.38*		*−0.38*	*0*	---	*2*
	7	*Hd.*	*WII*			*+0.036*	*−0.57*		*−0.57*	*0*	---	*3*
	9	*Hd.*	*WII*			*+0.010*	*−0.17*		*−0.17*	*0*	---	--
	10	*Hd.*	*WII*			*+0.017*	*−0.33*		*−0.33*	*0*	---	--
	16	*R.*	*WII*			-----	*−0.07*		*−0.07*	*0*	---	--
	17	*Fn.*	*WII*			*+0.059*	*+0.21*		*+0.21*	*0*	---	--
Nov.	16	R.	EII			+0.026			−0.04	0	---	2
1913												
Jan.	18	R.	EII			+0.070			+0.09	II	2.6	1½
	19	R.	EII			+0.008			+0.34	I	2.9	1½
	21	R.	EII			+0.018			+0.11	I	2.9	1½
	25	R.	EII			+0.014			+0.27	I	---	4
Feb.	4	R.	WII			+0.016			-----	0	---	--
	13	R.	WII			−0.014			----	0	---	2
	28	Fn.	EII			+0.074			----	I	2.9	3
Mar.	3	Fn.	EII			+0.053			+0.48	0	---	2½
	5	Fn.	EII			+0.071			----	0	---	2
	6	Hd.	EII			+0.027			−0.31	I	2.9	3
	22	Hd.	WII			+0.021			+0.12	I	2.9	2
Apr.	7	Fn.	WII			+0.003			−0.39	I	2.9	2
	8	Hd.	WII			+0.011			−0.53	I	---	2
	16	Hd.	WII			+0.012			−0.59	I	2.9	2
Nov.	22	R.	WI			+0.073			----	II	2.6	1½
Dec.	8	Hd.	EI			+0.046			----	I	2.9	2
	12	Fn.	EI			−0.023			----	I	3.4	3
	13	R.	EI			−0.020			----	II	3.1	2
	18	Hd.	WI			+0.050			----	I	2.9	2
	19	Fn.	WI			+0.040			----	I	3.4	1½
	20	R.	WI			+0.027			+0.10	II	3.1	2
	26	Fn.	WI			+0.025			−0.09	I	3.4	2
	29	Hd.	WI			+0.007			+0.54	I	2.9	3
1914												
Jan.	5	Hd.	EI			+0.012			----	1	3.4	2
	8	Hd.	EI			−0.004			−0.48	I	3.9	2
	15	Hd.	EI			+0.028			−0.37	I	2.9	3

1914				s	″	″			
Jan.	17	Wy.	WI	+0.041		+1.40	I	2.9	2½
	27	R.	WI	+0.017		----	I	2.9	3½
	31	Fn.	WI	−0.002		+0.78	I	3.4	2½
Feb.	2	Hd.	WI	+0.016		----	I	2.9	2
	17	Wy.	WI	+0.008		+0.15	0	3.5	2½
Mar.	14	Hd.	WI	+0.021		----	I	3.9	3
	16	Fn.	WI	−0.013		+0.40	0	---	3
	22	Wy.	EI	+0.035		----	I	2.9	2½
	23	Fn.	EI	+0.007		----	I	2.9	2
	25	Hd.	EI	+0.020		−0.04	0	---	3
	26	Fn.	EI	+0.052		----	I	2.9	2
Apr.	3	Wy.	WI	+0.048		----	I	2.9	2
	4	Hd.	WI	+0.027		+0.08	0	---	2
	5	Hd.	WI	+0.041		+0.91	I	2.9	2
	6	Fn.	WI	+0.044		−0.63	I	2.9	2
	8	Hd.	WI	+0.052		+0.48	I	2.9	3½
	9	Fn.	WI	+0.018		----	I	2.9	1½
	13	Fn.	EI	+0.024		−0.28	I	3.4	1½
Aug.	*21*	*An.*	*WI*	*+0.012*	*+0.37*	*+0.38*	*0*	---	*3*
Sept.	*3*	*Fn.*	*WI*	*+0.029*	*−0.27*	*−0.26*	*0*	---	*3½*
	8	*Fn.*	*EI*	*−0.017*	*−0.47*	*−0.46*	*0*	---	*3*
	9	*An.*	*EI*	-----	*−0.47*	*−0.46*	*0*	---	--
	14	*An.*	*EI*	*+0.027*	*−0.73*	*−0.72*	*0*	---	*3½*
	17	*An.*	*EI*	*+0.061*	*+1.77*	*+1.77*	*0*	---	*3½*
	20	*Hd.*	*EI*	*+0.018*	*−0.60*	*−0.59*	*0*	---	*3*
	21	*Wy.*	*EI*	*−0.053*	*−0.67*	*−0.67*	*0*	---	*3½*
	22	*An.*	*EI*	*+0.038*	*−0.18*	*−0.17*	*0*	---	*4*
	25	*An.*	*EI*	*−0.027*	*−1.87*	*−1.87*	*0*	---	*3½*
	27	*Hd.*	*WI*	*+0.026*	*−0.02*	*−0.02*	*0*	---	*2½*
	28	*Wy.*	*WI*	*+0.055*	*+0.41*	*+0.42*	*0*	---	*3½*
	29	*An.*	*WI*	*+0.012*	*+0.70*	*+0.70*	*0*	---	*4*
	30	*Hd.*	*WI*	*+0.024*	*−0.44*	*−0.44*	*0*	---	*3*
Oct.	*1*	*Wy.*	*WI*	*−0.027*	*+0.61*	*+0.62*	*0*	---	*3*
	19	*Wy.*	*EI*	-----	*+0.09*	*+0.09*	*0*	---	*2½*
Nov.	*3*	*Fn.*	*WI*	*−0.028*	----	----	*0*	---	*3½*
	9	An.	WI	+0.004		+0.40	I	2.9	3
	12	Wy.	WI	+0.019		----	I	2.9	3
	13	Hd.	WI	+0.032		----	I	2.9	2
	16	Fn.	EI	+0.022		----	I	3.4	2½
	20	Wy.	EI	+0.023		----	I	2.9	2
	23	Wy.	EI	−0.016		----	II	2.6	2
1915									
Mar.	30	Wy.	EI	+0.045		----	I	---	2½
Apr.	1	Fn.	EI	+0.053		+0.23	I	---	2½
	6	Wy.	EI	+0.011		----	II	3.1	2½
	7	An.	EI	+0.074		----	II	3.1	2
	8	Hd.	EI	+0.036		----	I	2.9	2
	10	An.	EI	+0.022		−0.38	0	---	2
	12	Hd.	WI	+0.037		----	I	---	3
	15	Hd.	WI	+0.029		+0.40	I	2.9	2½
	17	An.	WI	+0.006		+0.17	II	3.1	2
	19	Fn.	WI	+0.029		+0.69	I	---	2
	21	An.	WI	−0.015		----	I	3.9	2½
May	*3*	*Fn.*	*EI*	*+0.014*	----	----	*0*	---	*3*
Sept.	*8*	*Wy.*	*WI*	*−0.002*	*+0.15*	*+0.17*	*0*	---	*3*
	9	*Hd.*	*WI*	*−0.036*	*−0.28*	*−0.27*	*0*	---	*3*
	10	*Wy.*	*EI*	-----	*−0.23*	*−0.22*	*0*	---	*3*
	12	*Hd.*	*EI*	*−0.015*	*−0.90*	*−0.89*	*0*	---	*3*
	13	*Wy.*	*EI*	*+0.007*	*−0.45*	*−0.44*	*0*	---	*3½*
	14	*Hd.*	*EI*	*+0.058*	*−0.29*	*−0.28*	*0*	---	*3½*
	16	*Hd.*	*EI*	-----	*−0.44*	*−0.43*	*0*	---	*3½*
	21	*Hd.*	*EI*	*+0.041*	*−0.43*	*−0.42*	*0*	---	*3*
	22	*Hd.*	*EI*	*−0.005*	*+0.02*	*+0.03*	*0*	---	*3*
	23	*Wy.*	*EI*	*+0.060*	*−0.03*	*−0.03*	*0*	---	*3*
	24	*Wy.*	*EI*	*+0.041*	*−0.24*	*−0.24*	*0*	---	*3*
	26	*Hd.*	*EI*	*+0.007*	*−0.35*	*−0.34*	*0*	---	*3*
	27	*Fn.*	*EI*	*−0.016*	*−0.42*	*−0.41*	*0*	---	*3*
	29	*Hd.*	*EI*	-----	*−0.07*	*−0.07*	*0*	---	*3*
Oct.	*10*	*Fn.*	*WI*	*−0.036*	*+0.67*	*+0.67*	*0*	---	*3*
	11	*Wy.*	*WI*	*0.000*	----	----	*0*	---	*3½*
	22	*Fn.*	*WI*	*+0.042*	*−1.41*	*−1.41*	*0*	---	*3*
Dec.	10	Hd.	WI	+0.022		----	I	2.9	2
	21	Hd.	WI	+0.029		----	I	2.9	2
	22	Fn.	WI	+0.038		−0.14	I	3.4	2½
	23	Hd.	WI	−0.028		+0.65	I	3.4	3
1916									
Jan.	3	Wy.	EI	+0.038		----	I	3.4	2
	14	Hd.	EI	+0.075		−0.18	I	2.9	2

				s	″	″				
1916										
Jan.	20	Wy.	EI	+0.036		−0.25	I	3	4	3
	23	Fn.	EI	+0.061		+0.54	I	3	4	2
Feb.	3	Fn.	EI	+0.041		−0.08	I	3	4	2
	9	Hd.	WI	+0.028		+0.12	I	2	9	3
	11	Fn.	WI	+0.015		+0.08	0			2½
Mar.	5	Fn.	WI	−0.023		+0.15	0			2½
	9	Fn.	WI	−0.028		+0.04	I	3	9	3
Sept.	*10*	*Hd.*	*WI*	*+0.066*	*−0.47*	*−0.45*	*0*			*3½*
	17	*Wy.*	*EI*	*−0.028*	*−0.03*	*−0.02*	*0*			*3½*
	18	*Hd.*	*EI*	*−0.038*	*−0.28*	*−0.28*	*0*			*3*
	21	*Hd.*	*EI*	*+0.031*	*−0.15*	*−0.14*	*0*			*3½*
	24	*Wy.*	*EI*	-----	*−0.19*	*−0.19*	*0*			*3½*
Oct.	*1*	*Wy.*	*WI*	*+0.030*	*−0.17*	*−0.17*	*0*			*3*
	8	*Hd.*	*WI*	*+0.042*	*+0.02*	*+0.03*	*0*			*2½*
	23	*Hd.*	*WI*	*−0.008*	*+0.69*	*+0.69*	*0*			*3*
	26	*Hd.*	*EI*	*+0.001*	*−0.26*	*−0.26*	*I*			*3*
Nov.	*1*	*Hd.*	*EI*	*+0.023*	*−0.36*	*−0.36*	*I*			*3*
1917										
Mar.	6	Fn.	WI	+0.056		+0.11	I	3	4	1½
	12	Hd.	EI	+0.049		+0.26	I	2	9	2
	15	Wy.	EI	+0.020		−0.54	I	3	4	3
	19	Fn.	EI	+0.013		−0.31	I	3	9	1½
	25	Hd.	WI	+0.014		----	I			2
	29	Wy.	WI	+0.011		+0.88	I	3	9	3½
	30	Fn.	WI	+0.005		−0.12	I	3	9	2½
Apr.	9	Hd.	WI	+0.031		+0.03	I	3	4	2
	10	Fn.	WI	+0.032		−0.34	I	3	4	2½
	16	Fn.	WI	+0.005		−0.34	I	3	4	2½
	23	Wy.	EI	+0.022		+0.02	I	2	9	2
	30	*Hd.*	*EI*	*−0.010*	*−0.49*	*−0.49*	*I*			*2½*
May	*1*	*Fn.*	*EI*	*+0.001*	*−1.02*	*−1.02*	*0*			*3*
	3	*Hd.*	*EI*	*−0.012*	*+0.08*	*+0.08*	*I*			*2*
	10	*Fn.*	*WI*	*+0.015*	*+0.51*	*+0.51*	*0*			*2*
June	*25*	*Wy.*	*WII*	*−0.002*	*−0.22*	*−0.21*	*0*			*4*
July	*2*	*Hd.*	*EII*	-----	*−0.40*	*−0.39*	*0*			*3*
Sept.	*12*	*Hd.*	*EII*	*+0.012*	*−0.75*	*−0.74*	*0*			*3½*
	16	*Hd.*	*EII*	*+0.043*	*−0.31*	*−0.30*	*0*			*3½*
	17	*Wy.*	*EII*	*+0.026*	*−0.58*	*−0.58*	*0*			*3½*
	19	*Hd.*	*WII*	*+0.062*	*−0.14*	*−0.14*	*0*			*3*
	30	*Hd.*	*WII*	*+0.081*	*−0.52*	*−0.51*	*0*			*3*
Oct.	*1*	*Fn.*	*WII*	*+0.065*	*−0.44*	*−0.44*	*0*			*3*
	4	*Fn.*	*WII*	*−0.031*	*−0.66*	*−0.65*	*0*			*3½*
	7	*Hd.*	*EII*	-----	*+0.04*	*+0.04*	*0*			*3*
1918										
Mar.	18	Wy.	WII	+0.063		−0.04	I	3	4	2
	25	Fn.	WII	+0.011		−0.77	I	2	9	2
	28	Fn.	WII	+0.003		−0.42	I	3	4	1½
Apr.	2	Fn.	EII	−0.023		−0.71	I	3	4	2½
	5	Fn.	EII	+0.056		−0.09	I	3	4	1½
	15	Fn.	EII	−0.014		−0.28	I	3	4	1½
Mean			1914.76	+0.024		+0.01				
			1915.02							
Corr				−0.081		−0.26				

Weisse, IX 269

				h	m	s	°	′	″				
1912													
Feb.	9	Hd.	EII	9	16	23.821	+13	29	43.42	0	7	0	3
	13	Hd.	EII			23.754			44.02	0	7	0	2
	23	Hd.	WII			23.769			44.39	0	7	0	--
	28	R.	WII			23.769			43.96	0	7	0	2
1915													
Mar.	29	Fn.	EI			23.788			44.72	0	6	5	3
	31	An.	EI			23.754			44.75	0	7	0	2½
Apr.	13	Fn.	WI			23.761			44.23	0	7	0	2½
	14	An.	WI			23.778			44.64	0	7	0	2
Mean			1913.70	9	16	23.774	+13	29	44.27				
Corr						−0.081			−0.22				

θ Pyxidis

				h	m	s	°	′	″				
				9	17	30.307	−25	34	56.75				
1913													
Feb.	19	Fn.	EII			+0.178			+0.39	0	5	5	3
Mar.	5	Fn.	EII			+0.176			+1.12	0	5	5	3½
Mar.	17	Fn.	WII			+0.184			+2.31	0	5	3	3½
	20	R.	WII			+0.216			+1.03	0	5	0	3½
Dec.	8	Hd.	EI			+0.253			+1.30	0			4½
	13	R.	EI			+0.252			+1.59	0			5
	18	Hd.	WI			+0.233			−0.05	I	4	9	3½
	19	Fn.	WI			+0.198			+0.90	0	5	0	3
1914													
Jan.	5	Hd.	EI			+0.232			+1.37	0	6	0	3½
Mean			1913.62			+0.214			+1.11				
Corr						−0.081			−0.02				

Lalande 18466

				h	m	s	°	′	″				
1912													
Mar.	9	R.	EII	9	18	49.150	+36	58	26.79	0	7	5	1
	10	Fn.	EII			49.106			26.26	0	6	8	2½
	25	Fn.	WII			49.118			25.40	0	6	8	1½
	26	Hd.	WII			49.084			25.47	0	6	8	--
1915													
Dec.	2	Hd.	EI			49.093			26.01	0			2
	4	Fn.	EI			49.078			25.55	0	7	0	2
	8	Wy.	WI			49.072			25.47	0	7	0	2
	9	Fn.	WI			49.032			25.63	0	7	0	2
Mean			1914.07	9	18	49.092	+36	58	25.82				
Corr						−0.081			−0.26				

λ Pyxidis

				h	m	s	°	′	″				
1913													
Jan.	27	Fn.	EII	9	19	18.503	−28	26	55.07	0	5	6	4
Feb.	6	R.	WII			18.451			55.10	0			5
	7	Fn.	WII			18.467			55.49	0			4½
	14	Fn.	WII			18.499			56.46	0	5	5	3½
	17	Fn.	EII			18.434			56.04	0	6	3	3½
1914													
Feb.	26	Fn.	EI			18.432			55.26	0	5	5	3½
	27	Wy.	EI			18.421			55.63	0	6	0	3
Mar.	3	Wy.	WI			18.446			55.96	0	5	7	3½
	4	Hd.	WI			18.479			55.13	0	6	0	3½
	22	Wy.	EI			18.443			55.46	0	6	5	3½
Mean			1913.64	9	19	18.458	−28	26	55.56				
Corr						−0.081			0.00				

κ Leonis

				h	m	s	°	′	″				
1912													
Mar.	22	Hd.	EII	9	19	24.981	+26	34	12.46	I			2
	30	R.	WII			25.014			12.41	0			1
	31	Hd.	WII			24.976			12.67	I	3	9	2
Apr.	5	Hd.	EII			24.964			12.58	0			--
1915													
Nov.	29	Wy.	EI			24.954			12.44	I	4	4	3
	30	Hd.	EI			24.966			12.56	I	4	4	2
Dec.	10	Hd.	WI			24.942			12.66	I	4	4	2
	21	Hd.	WI			24.929			12.34	I	4	4	2
Mean			1914.09	9	19	24.966	+26	34	12.52				
Corr						−0.081			−0.24				

Piazzi IX 74

				h	m	s	°	′	″				
1912													
Dec.	30	Fn.	WII	9	20	33.505	+16	58	28.19	0	5	7	2
1913													
Jan.	18	R.	EII			33.472			28.35	0	6	0	2
	19	R.	EII			33.496			27.58	0	6	5	2
	29	Fn.	WII			33.465			27.45	0	6	5	2½
1914													
Jan.	28	Fn.	WI			33.521			27.21	0	6	5	3
	29	Wy.	WI			33.414			27.62	0	6	5	4
	31	Fn.	WI			33.476			28.04	0	6	5	2½
Feb.	7	Wy.	EI			33.523			27.38	0	6	5	3
	9	Hd.	EI			33.503			27.03	0	6	0	3
Mean			1913.63	9	20	33.486	+16	58	27.65				
Corr						−0.081			−0.22				

Radcliffe 1890, 2419

				h	m	s	°	′	″				
1912													
Feb.	9	Hd.	EII	9	21	36.218	−24	56	52.91	0	7.0	4½	
	13	Hd.	EII			36.245			53.54	0	7.8	4	
	23	Hd.	WII			36.187			53.53	0	7.0	--	
	28	R.	WII			36.203			53.88	0	7.0	2	
1915													
Mar.	29	Fn.	EI			36.238			51.98	0	7.5	3½	
Apr.	1	Fn.	EI			36.219			52.03	0	8.0	3	
	12	Hd.	WI			36.260			52.35	0	7.0	3½	
	13	Fn.	WI			36.219			53.70	0	7.0	3	
Mean		1913.70		9	21	36.224	−24	56	52.99				
Corr						−0.081			−0.03				

α Hydræ

				h	m	s	°	′	″				
				9	23	9.905	−8	16	4.70				
1911						s	″		″				
Sept.	*25*	*Hd.*	*EII*			*+0.060*	*−0.82*		*−0.82*	*0*	---	*3½*	
Oct.	*23*	*Fn.*	*WII*			*−0.001*	*+1.01*		*+1.01*	*0*	---	--	
	24	*R.*	*WII*			*−0.001*	*−0.94*		*−0.92*	*0*	---	--	
	25	*R.*	*WII*			*+0.022*	*−0.56*		*−0.45*	*0*	---	--	
	29	*R.*	*EII*			*+0.102*	*+0.94*		*+0.98*	*0*	---	--	
1912													
Feb.	14	R.	EII			+0.044			----	II	2.1	1	
Mar.	13	Fn.	EII			+0.025			+0.22	I	2.2	3½	
	16	Fn.	EII			+0.033			+0.27	II	2.0	2½	
	17	R.	EII			+0.046			−0.20	II	2.6	3	
	18	Fn.	EII			+0.001			+0.06	I	2.5	2½	
Apr.	2	Hd.	WII			+0.036			−0.32	I	---	3	
	3	R.	WII			+0.020			+0.47	II	2.6	2	
	4	Fn.	EII			+0.017			----	I	---	3	
	8	Fn.	WII			+0.026			−0.12	II	2.3	2½	
	11	Fn.	EII			+0.064			----	I	2.3	3½	
	16	Hd.	EII			+0.017			----	0	---	4	
	19	Hd.	EII			0.000			----	II	2.1	3	
	20	Fn.	WII			+0.050			----	II	2.0	2½	
	22	Fn.	WII			0.000			----	I	---	3½	
	23	Hd.	WII			+0.001			−0.59	II	2.6	2	
Sept.	*19*	*Hd.*	*WII*			*+0.025*	*−0.40*		*−0.21*	*0*	---	*3½*	
	27	*R.*	*EII*			*+0.079*	*+0.10*		*+0.17*	*0*	---	*5*	
	29	*R.*	*EII*			*+0.065*	*−0.08*		*−0.06*	*0*	---	*3*	
	30	*Hd.*	*EII*			*−0.021*	*−0.15*		*−0.13*	*0*	---	--	
Oct.	*1*	*Hd.*	*EII*			*+0.031*	*+0.27*		*+0.29*	*0*	---	*3*	
	3	*Hd.*	*EII*			*−0.010*	*−0.20*		*−0.09*	*0*	---	*3½*	
	4	*Hd.*	*EII*			*+0.046*	*−0.06*		*−0.06*	*0*	---	*3*	
	6	*Hd.*	*WII*			*+0.009*	*−0.03*		*−0.05*	*0*	---	*3*	
	7	*Hd.*	*WII*			*+0.047*	*−0.54*		*−0.48*	*0*	---	*3*	
	9	*Hd.*	*WII*			*−0.004*	*−0.03*		*−0.03*	*0*	---	*3*	
	10	*Hd.*	*WII*			*+0.014*	*−0.82*		*−0.80*	*0*	---	*3*	
	11	*Hd.*	*WII*			*+0.036*	*−1.02*		*−0.98*	*0*	---	*4*	
	16	*R.*	*WII*			-----	*−0.04*		*0.00*	*0*	---	--	
	17	*Fn.*	*WII*			*+0.047*	*−0.01*		*+0.06*	*0*	---	--	
	20	*Fn.*	*EII*			-----	*−0.09*		*−0.09*	*0*	---	*3*	
Nov.	16	R.	EII			+0.022			----	0	---	3	
Dec.	13	Fn.	EII			+0.013			----	I	1.9	2½	
1913													
Jan.	21	R.	EII			+0.050			+0.65	II	2.1	1½	
	25	R.	EII			+0.054			−0.16	I	---	4½	
Feb.	4	R.	WII			+0.065			----	I	---	3	
	13	R.	WII			+0.061			−0.18	I	---	2	
	15	R.	WII			+0.066			----	I	---	--	
	28	Fn.	EII			−0.015			----	I	---	3½	
Mar.	3	Fn.	EII			+0.021			−0.26	I	---	3	
	5	Fn.	EII			+0.011			----	I	---	3½	
	6	Hd.	EII			-----			−0.42	II	2.6	3	
	7	Fn.	EII			+0.001			−0.38	II	2.4	2½	
	12	Fn.	EII			+0.040			----	I	---	2½	
	18	Hd.	WII			+0.026			----	II	2.1	2½	
	20	R.	WII			+0.021			----	II	2.1	2	
	21	Fn.	WII			+0.027			−0.61	I	---	3½	
	24	Fn.	EII			+0.027			----	I	---	3½	
	27	R.	EII			+0.048			----	II	1.6	2½	
	28	Fn.	EII			+0.004			----	II	2.1	2	
	29	Hd.	EII			+0.032			----	II	2.1	2	
Apr.	5	Hd.	WII			+0.027			−0.44	II	1.6	3	

				s	″	″				
1913										
Apr.	6	R.	WII	+0.060		----	II	2.1	2	
	7	Fn.	WII	+0.048		----	I	1.9	2½	
	8	Hd.	WII	+0.034		----	I	---	2	
	16	Hd.	WII	+0.047		----	II	1.6	2½	
Dec.	5	R.	EI	+0.026		----	II	2.1	3	
	11	Hd.	EI	+0.035		----	II	2.6	2	
	12	Fn.	EI	+0.039		−1.70	I	1.9	4	
	13	R.	EI	+0.033		−1.69	II	2.6	4½	
	18	Hd.	WI	+0.030		−1.40	II	2.6	2	
	19	Fn.	WI	+0.036		−0.43	I	1.9	2½	
	26	Fn.	WI	+0.069		----	I	2.4	3	
	29	Hd.	WI	+0.082		----	II	2.1	3	
1914										
Jan.	5	Hd.	EI	+0.049		----	II	2.6	2	
	9	R.	EI	+0.056		−0.21	II	2.6	2½	
	17	Wy.	WI	+0.082		−0.08	I	2.4	2½	
	27	R.	WI	+0.040		----	I	---	--	
Feb.	2	Hd.	WI	+0.008		----	0	---	3½	
Mar.	12	Fn.	WI	+0.043		----	0	---	--	
	13	Wy.	WI	+0.072		----	II	2.1	2	
	14	Hd.	WI	+0.058		−0.22	I	2.4	3	
	18	Hd.	EI	+0.018		----	I	2.4	3½	
	23	Fn.	EI	+0.016		----	I	2.4	2½	
Apr.	3	Wy.	WI	+0.023		−1.11	I	2.9	2	
	4	Hd.	WI	+0.042		−0.36	0	---	3	
	5	Hd.	WI	+0.018		+0.17	II	2.6	2½	
	6	Fn.	WI	+0.020		−1.05	I	2.4	2½	
	8	Hd.	WI	+0.036		−0.06	I	---	3½	
	13	Fn.	EI	+0.053		−0.26	I	2.4	2½	
Sept.	*1*	*Wy.*	*WI*	*−0.004*		*−1.49*	*−1.41*	*0*	---	*3½*
	3	*Fn.*	*WI*	*+0.062*		*−1.48*	*−1.26*	*0*	---	*4*
	4	*Wy.*	*WI*	*+0.141*		*−0.56*	*−0.27*	*0*	---	*3½*
	8	*Fn.*	*EI*	*+0.083*		*−1.11*	*−0.92*	*0*	---	*4*
	9	*An.*	*EI*	*+0.070*		----	----	*0*	---	--
	13	*Fn.*	*EI*	*+0.020*		----	----	*0*	---	*4*
	14	*An.*	*EI*	*+0.040*		*+0.40*	*+0.58*	*0*	---	*3½*
	17	*An.*	*EI*	*+0.124*		*+0.07*	*+0.13*	*0*	---	*3½*
	20	*Hd.*	*EI*	*−0.010*		*+0.42*	*+0.61*	*0*	---	*3*
	21	*Wy.*	*EI*	*+0.055*		*+0.39*	*+0.42*	*0*	---	*4*
	22	*An.*	*EI*	*−0.061*		*−0.93*	*−0.81*	*0*	---	*4*
	25	*An.*	*EI*	*+0.058*		*−1.91*	*−1.88*	*0*	---	*4*
	27	*Hd.*	*WI*	*+0.007*		*−0.93*	*−0.89*	*0*	---	*3½*
	28	*Wy.*	*WI*	*+0.057*		*−0.53*	*−0.42*	*0*	---	*3½*
	29	*An.*	*WI*	*+0.035*		*+0.68*	*+0.66*	*0*	---	*4½*
	30	*Hd.*	*WI*	*+0.003*		*−0.34*	*−0.31*	*0*	---	*3½*
Oct.	*1*	*Wy.*	*WI*	*+0.057*		*−0.19*	*−0.06*	*0*	---	*3½*
	19	*Wy.*	*EI*	-----		*−0.48*	*−0.42*	*0*	---	*3*
1915										
Feb.	10	Hd.–An.	EI	-----			−0.93	II	1.6	2
	17	Fn.–Wy.	EI	-----			+0.62	I	2.4	3
	18	Hd.–An.	EI	-----			−0.20	I	---	3 R.
	19	Fn.–Wy.	EI	-----			−1.40	I	---	3 R.
	20	An.–Hd.	WI	-----			−0.61	II	2.6	--
	21	An.–Hd.	WI	-----			−1.90	I	---	3 R.
Mar.	1	Wy.–Fn.	WI	-----			−2.14	I	---	3 R.
	8	Wy.–Fn.	WI	-----			−1.61	II	2.6	3
	9	Wy.–Fn.	WI	-----			−1.33	II	2.1	3½
Apr.	7	An.	EI	−0.008		----	II	3.1	2½	
	8	Hd.	EI	+0.012		−0.72	II	2.1	2	
	10	An.	EI	+0.018		−1.24	I	---	3	
	14	An.	WI	+0.083		−0.58	II	3.1	2	
	15	Hd.	WI	+0.041		−0.69	II	2.6	3	
	17	An.	WI	+0.030		−0.43	II	3.6	2½	
	21	An.	WI	+0.015		−0.53	II	3.6	2½	
Aug.	*23*	*Hd.*	*WI*	-----		*−0.46*	*−0.25*	*0*	---	*3½*
Sept.	*8*	*Wy.*	*WI*	-----		*−1.06*	*−0.76*	*0*	---	*4*
	9	*Hd.*	*WI*	*+0.088*		*−1.23*	*−1.10*	*0*	---	*3½*
	10	*Wy.*	*EI*	-----		*−1.05*	*−0.92*	*0*	---	*3½*
	13	*Wy.*	*EI*	*+0.012*		*+0.06*	*+0.20*	*0*	---	*4*
	14	*Hd.*	*EI*	*+0.071*		*−0.59*	*−0.49*	*0*	---	*3½*
	16	*Hd.*	*EI*	-----		*+0.20*	*+0.37*	*0*	---	*3*
	21	*Hd.*	*EI*	*+0.098*		*−1.25*	*−1.13*	*0*	---	*3½*
	22	*Hd.*	*EI*	*+0.024*		*−0.42*	*−0.28*	*0*	---	*3½*
	23	*Wy.*	*EI*	*+0.008*		*+0.46*	*+0.51*	*0*	---	*3½*
	24	*Wy.*	*EI*	*+0.060*		*+0.37*	*+0.43*	*0*	---	*3½*
	26	*Hd.*	*EI*	*+0.040*		*−0.49*	*−0.35*	*0*	---	*3½*
	27	*Fn.*	*EI*	*+0.045*		*−0.70*	*−0.61*	*0*	---	*3½*
Oct.	*8*	*Fn.*	*WI*	*−0.002*		*−1.19*	*−1.13*	*0*	---	*3½*

				s	″	″					
1915											
Oct.	*10*	*Fn.*	*WI*	*−0.031*	*−0.09*	*−0.05*	*0*	---	*3*		
	11	*Wy.*	*WI*	*+0.050*	----	----	*0*	---	*3½*		
	25	*Fn.*	*WI*	-----	*−2.10*	*−2.02*	*0*	---	*3*		
Dec.	22	Fn.	WI	+0.062		----	I	2.4	3		
1916											
Jan.	8	Fn.	EI	+0.019		----	I	2.4	3		
	14	Hd.	EI	0.000		----	II	2.1	2		
	20	Wy.	EI	+0.073		−1.00	I	2.9	3		
	23	Fn.	EI	+0.021		−0.82	I	---	--		
Feb.	3	Fn.	EI	+0.048		−1.12	I	2.4	2½		
	11	Fn.	WI	+0.056		−0.31	0	---	3		
Mar.	4	Wy.	WI	+0.051		−0.99	I	2.9	3½		
	5	Fn.	WI	+0.039		−0.09	0	---	3		
	9	Fn.	WI	+0.068		−0.52	I	2.9	3½		
	10	Fn.	WI	−0.001		----	I	2.4	3		
	23	Hd.–Wy.	WI	-----		−2.01	I	---	--		R.
	24	Hd.–Wy.	WI	-----		−0.50	I	---	3		
	31	Hd.–Wy.	EI	-----		−2.00	I	---	2		R.
Apr.	10	Hd.–Wy.	EI	-----		+0.01	II	1.6	2½		
	13	Hd.–Fn.	EI	-----		−0.97	I	2.9	3		
	15	Hd.–Fn.	EI	-----		−1.76	I	---	3		R.
	18	Hd.–Fn.	EI	-----		+0.32	I	2.9	3		
	19	Hd.–Fn.	WI	-----		−0.58	I	2.9	2½		
	20	Hd.–Wy.	WI	-----		−1.84	I	---	3½		R.
June	*26*	*Hd.*	*WI*	*−0.067*	*−1.01*	*−0.78*	*0*	---	*3½*		
Sept.	*17*	*Wy.*	*EI*	*−0.004*	*−0.22*	*0.00*	*0*	---	*3½*		
	18	*Hd.*	*EI*	*−0.023*	*−1.26*	*−1.19*	*0*	---	*3½*		
	21	*Hd.*	*EI*	*+0.046*	*−0.03*	*+0.15*	*0*	---	*3½*		
	24	*Wy.*	*EI*	*0.000*	*+0.21*	*+0.26*	*0*	---	*3½*		
1917											
Mar.	15	Wy.	EI	+0.072		−0.07	I	3.4	3		
	19	Fn.	EI	+0.029		−0.36	I	2.4	2		
	29	Wy.	WI	+0.066		----	I	---	3½		
	30	Fn.	WI	+0.026		−1.33	I	2.4	2½		
Apr.	9	Hd.	WI	+0.039		−0.52	II	2.6	2		
	10	Fn.	WI	+0.003		−0.45	I	2.9	3		
	16	Fn.	WI	+0.031		−0.55	I	2.9	2½		
	23	Wy.	EI	+0.049		−0.15	II	2.6	3		
	30	*Hd.*	*EI*	*+0.047*	*−0.40*	*−0.42*	*I*	---	*3*		
May	*1*	*Fn.*	*EI*	*+0.065*	----	----	*0*	---	*3*		
	3	*Hd.*	*EI*	*+0.057*	*−0.28*	*−0.32*	*I*	---	*2½*		
	10	*Fn.*	*WI*	*+0.077*	*−0.36*	*−0.39*	*0*	---	*2½*		
June	*25*	*Wy.*	*WII*	*−0.064*	*−1.01*	*−0.87*	*0*	---	*4*		
July	*2*	*Hd.*	*EII*	-----	*−0.41*	*−0.24*	*0*	---	*3½*		
Sept.	*12*	*Hd.*	*EII*	*+0.052*	*−0.13*	*+0.11*	*0*	---	*3½*		
	16	*Hd.*	*EII*	*+0.057*	*−0.69*	*−0.51*	*0*	---	*3½*		
	19	*Hd.*	*WII*	*+0.064*	----	----	*0*	---	*3*		
	30	*Hd.*	*WII*	*+0.053*	*+0.16*	*+0.25*	*0*	---	*3*		
Oct.	*1*	*Fn.*	*WII*	*+0.060*	*−0.74*	*−0.70*	*0*	---	*3½*		
	4	*Fn.*	*WII*	*+0.011*	*−0.66*	*−0.45*	*0*	---	*3½*		
1918											
Mar.	25	Fn.	WII	+0.050		−1.20	I	2.4	3		
	28	Fn.	WII	+0.034		−0.60	I	2.4	2½		
Apr.	2	Fn.	EII	+0.133		+0.16	I	2.9	3		
	5	Fn.	EII	+0.030		−0.74	I	1.9	2½		
	15	Fn.	EII	+0.056		−0.62	I	2.9	2½		
June	*19*	*Wy.*	*WII*	*−0.026*	*−1.53*	*−1.35*	*0*	---	*3½*		
Mean		1914.38		+0.036		−0.49					
		1915.01									
Corr				−0.081		−0.15					

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				s	″	″					
1911											
Nov.	12	Hd.	EII	+0.17		+0.53	I	3.9	4		
	15	Hd.	EII	+0.06		+0.69	I	3.7	3		
	16	Hd.	EII	----		−0.01	I	---	2		R.
	16	Hd.	EII	+0.58		+0.81	I	3.9	2		
	19	R.	EII	−0.09		+0.69	0	---	--		
	21	R.	EII	+0.02		+0.59	0	---	--		
	22	Fn.	EII	----		+0.17	0	---	2		R.
	22	Fn.	EII	−0.11		+0.33	0	---	2		
	26	Hd.	WII	----		+0.68	I	---	3		R.
	26	Hd.	WII	−0.18		+0.45	I	3.4	3		
	30	Hd.	WII	----		+0.76	0	---	4		R.
1911											
Nov.	30	Hd.	WII	+0.20		+0.56	0	5.0	4		
Dec.	4	R.	WII	----		+0.38	I	---	--		R.
	4	R.	WII	−0.02		+0.06	I	4.4	--		
	5	R.	WII	----		+0.50	0	---	--		R.
	5	R.	WII	+0.17		+1.25	0	---	--		
	6	R.	WII	----		+0.62	0	---	--		R.
	6	R.	WII	+0.04		+0.90	0	---	--		
1912											
Nov.	11	Fn.	EII	----		+0.99	0	---	3½		R.
	11	Fn.	EII	−0.01		+1.85	0	---	3½		
	12	Fn.	EII	----		−0.21	0	---	3		R.
	12	Fn.	EII	+0.15		+0.89	0	---	3		
	18	Hd.	EII	----		+0.66	I	---	2		R.
	18	Hd.	EII	−0.20		+1.16	I	4.4	2		
	20	Hd.	EII	----		+0.45	I	---	3		R.
	20	Hd.	EII	+0.54		+1.35	I	3.9	3		
Dec.	3	Hd.	WII	----		+0.49	0	---	3		R.
	3	Hd.	WII	−0.02		+0.63	0	---	2		
	9	Hd.	WII	----		+0.73	0	---	3		R.
	9	Hd.	WII	−0.01		+0.15	I	3.9	3		
1913											
Nov.	*4*	*Fn.*	*EI*	----	*−0.40*	*−0.38*	*0*	---	*3½*		*R.*
	4	*Fn.*	*EI*	*+0.04*	*+0.90*	*+0.92*	*0*	---	*3½*		
	5	*R.*	*EI*	----	*+0.28*	*+0.24*	*0*	---	*2*		*R.*
	5	*R.*	*EI*	*+0.20*	*+0.05*	*+0.01*	*I*	---	*2*		
	6	*Hd.*	*EI*	----	*+0.34*	*+0.34*	*0*	---	*2*		*R.*
	6	*Hd.*	*EI*	*−0.10*	*+0.40*	*+0.40*	*I*	---	*2*		
	10	Hd.	WI	----		+0.69	0	---	3½		R.
	10	Hd.	WI	+0.20		−0.08	0	---	3		
	14	Fn.	WI	+0.09		+0.02	0	---	2½		
	17	Hd.	WI	----		+0.66	I	---	2		R.
	17	Hd.	WI	+0.08		+0.36	I	3.9	2½		
	18	Fn.	WI	----		+0.71	0	---	2		R.
	18	Fn.	WI	+0.27		−0.33	0	---	2		
	19	R.	WI	----		+0.54	I	---	2		R.
	19	R.	WI	−0.13		+0.20	I	3.4	2½		
	20	Hd.	WI	----		+0.43	I	---	2		R.
	20	Hd.	WI	+0.13		+0.02	I	---	2		
	21	Fn.	WI	----		+0.51	0	---	2½		R.
	21	Fn.	WI	−0.03		+0.54	0	---	2½		
	22	R.	WI	----		+0.06	I	---	2		R.
	22	R.	WI	−0.07		+0.54	I	4.4	1½		
	24	Hd.	WI	----		+0.95	I	---	2		R.
	24	Hd.	WI	+0.19		+0.10	I	3.9	2		
Dec.	3	R.	EI	----		+0.33	0	---	2		R.
	3	R.	EI	+0.08		+0.25	I	3.4	2		
	5	R.	EI	----		+0.26	0	---	--		R.
	5	R.	EI	0.00		+0.39	0	---	--		
1914											
Oct.	*29*	*An.*	*EI*	*+0.30*	*+0.54*	*+0.54*	*0*	---	*3½*		
	30	*Fn.*	*EI*	----	*+0.54*	*+0.53*	*0*	---	*3*		*R.*
	30	*Fn.*	*EI*	*+0.07*	*+0.74*	*+0.79*	*0*	---	*3*		
Nov.	*1*	*Wy.*	*WI*	----	*+0.86*	*+0.88*	*0*	---	*3*		*R.*
	1	*Wy.*	*WI*	*−0.14*	*+0.76*	*+0.78*	*0*	---	*3*		
	2	*Hd.*	*WI*	*+0.02*	*+0.13*	*+0.12*	*0*	---	*3*		
	3	*Fn.*	*WI*	----	*+0.22*	*+0.16*	*0*	---	*4*		*R.*
	3	*Fn.*	*WI*	*−0.50*	*+0.73*	*+0.66*	*0*	---	*4*		
	4	*Wy.*	*WI*	----	*+0.57*	*+0.74*	*0*	---	*3½*		
	9	An.	WI	+0.42		+0.21	I	3.4	3½		
	12	Wy.	WI	+0.05		+0.66	I	4.4	4		
	13	Hd.	WI	----		+0.91	0	---	3		R.
	13	Hd.	WI	+0.08		+0.17	I	4.4	2½		
	16	Fn.	EI	+0.15		+0.63	0	4.5	3		
	17	Hd.	EI	----		+1.09	0	---	2½		R.
	17	Hd.	EI	0.00		0.00	I	3.9	3		
	20	Wy.	EI	+0.17		+0.43	0	---	3		
	22	Hd.	EI	----		+0.24	0	---	3		R.
	22	Hd.	EI	+0.24		+0.84	I	3.9	3		
	23	Wy.	EI	+0.27		+0.46	I	4.4	2½		
1915											
Nov.	*1*	*Hd.*	*EI*	*+0.17*	*+0.57*	*+0.55*	*0*	---	*3½*		
	5	*Fn.*	*EI*	*−0.16*	*+0.23*	*+0.09*	*0*	---	*3*		
	7	Hd.	EI	----		+0.65	I	---	2		R.
	7	Hd.	EI	−0.07		+0.86	I	4.4	2		
	9	Wy.	WI	----		+1.39	I	---	2½		R.
	9	Wy.	WI	+0.08		−0.11	I	3.9	2½		
	10	Hd.	WI	+0.22		+0.69	0	---	3		
	15	Wy.	WI	----		+0.60	0	---	--		R.

				s	″	″					
1915											
Nov.	15	Wy.	WI	−0.03		+1.66	I	4.4	2½		
	16	Hd.	WI	+0.02		+0.75	I	3.9	2		
	17	Fn.	WI	+0.08		+0.99	0	4.5	3		
	24	Wy.	EI	----		+0.36	0	---	3		R.
	24	Wy.	EI	−0.02		+0.83	I	4.4	2½		
Dec.	4	Fn.	EI	−0.12		+1.14	0	4.5	2½		
1916											
Oct.	*1*	*Wy.*	*WI*	*+0.14*	*−0.48*	*−0.52*	*0*	---	*3½*		
	22	*Wy.*	*WI*	*−0.10*	*+0.42*	*+0.38*	*0*	---	*3½*		
	23	*Hd.*	*WI*	*−0.12*	*+1.37*	*+1.42*	*0*	---	*3*		
	25	*Wy.*	*EI*	*+0.05*	*+0.93*	*+0.89*	*0*	---	*3½*		
	26	*Hd.*	*EI*	*−0.30*	*+0.77*	*+0.73*	*0*	---	*3*		
Nov.	*1*	*Hd.*	*EI*	*−0.13*	*+0.86*	*+0.80*	*0*	---	*3*		
	2	*Fn.*	*EI*	*+0.02*	*+1.17*	*+1.20*	*0*	---	*3*		
1917											
Sept.	*17*	*Wy.*	*EII*	*−0.14*	*−0.35*	*−0.40*	*0*	---	*3*		
	19	*Hd.*	*WII*	*−0.19*	*+0.36*	*+0.32*	*0*	---	*3*		
Nov.	*1*	*Fn.*	*EII*	*−0.02*	*+0.74*	*+0.66*	*0*	---	*3*		
Mean		1913.80		+0.083		+0.57					
Corr				−0.081		−0.38					

1 H. Draconis s. p.

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				s	″	″					
1911											
Nov.	13	Hd.	EII	−0.01		−0.92	I	3.9	2		
	16	Hd.	EII	----		−0.68	I	---	--		R.
	16	Hd.	EII	−0.06		+0.24	I	3.9	--		
	18	Hd.	EII	−0.29		+0.41	I	4.4	3½		
	21	R.	EII	----		−0.80	I	---	2		R.
	21	R.	EII	+0.39		−0.50	I	4.4	2		
	22	R.	EII	−0.30		−0.03	I	4.4	1		
Dec.	*1*	*Hd.*	*WII*	*−0.21*	*−0.07*	*+0.08*	*I*	---	*3*		
	2	*Hd.*	*WII*	*−0.06*	*+0.70*	*+0.70*	*0*	---	*3*		
	4	*R.*	*WII*	*−0.23*	*−0.71*	*−0.60*	*0*	---	*5*		
	5	*R.*	*WII*	----	*−0.44*	*−0.37*	*0*	---	*3½*		*R.*
	5	*R.*	*WII*	*−0.34*	*+0.35*	*+0.42*	*0*	---	*3½*		
	7	*R.*	*WII*	----	*−0.57*	*−0.43*	*0*	---	--		*R.*
	7	*R.*	*WII*	*−0.22*	*−1.20*	*−1.06*	*0*	---	--		
1912											
Nov.	11	Fn.	EII	----		−0.26	0	---	3½		R.
	11	Fn.	EII	+0.11		−1.13	0	---	3½		
	12	Fn.	EII	----		−0.31	0	---	3½		R.
	12	Fn.	EII	+0.53		−1.01	0	---	3½		
	15	Fn.	EII	----		−1.53	0	---	3½		R.
	15	Fn.	EII	−0.15		−0.37	0	---	3½		
	17	R.	EII	+0.07		−1.25	0	---	--		
	18	Hd.	EII	----		−0.17	0	---	3		R.
	18	Hd.	EII	−0.06		−0.81	I	4.4	3		
	19	Hd.	EII	----		−0.51	0	---	3½		R.
	19	Hd.	EII	0.00		+0.03	0	---	3½		
	20	Hd.	EII	----		−0.34	I	---	3		R.
	20	Hd.	EII	−0.03		−0.38	I	3.9	3		
Dec.	*3*	*Hd.*	*WII*	*−0.18*	*+0.31*	*+0.45*	*0*	---	*2*		
	9	*Hd.*	*WII*	*+0.02*	*+0.50*	*+0.65*	*0*	---	*3*		
1913											
Aug.	7	R.–Fn.	WII	-----		−0.28	0	---	--		R.
	7	R.–Fn.	WII	-----		−0.47	I	4.4	1½		
	11	R.–Fn.	WII	-----		+0.62	0	---	--		R.
	11	R.–Fn.	WII	-----		−1.19	0	---	2		
	14	R.–Fn.	WII	-----		+0.15	0	---	2		R.
	14	R.–Fn.	WII	-----		−0.78	I	4.9	1½		
	15	Fn.–R.	WII	-----		−0.24	0	---	2½		R.
	15	Fn.–R.	WII	-----		−0.22	I	3.9	2½		
	16	Fn.–R.	WII	-----		+0.16	0	---	3		R.
	16	Fn.–R.	WII	-----		+0.64	0	5.0	3		
	17	R.–Fn.	WII	-----		−0.07	0	---	3½		R.
	17	R.–Fn.	WII	-----		−0.98	I	4.9	3		
	20	R.–Fn.	EII	-----		−0.66	I	---	2		R.
	20	R.–Fn.	EII	-----		+0.10	I	3.4	2		
	25	R.–Fn.	EII	-----		−0.92	0	---	3		R.
	25	R.–Fn.	EII	-----		+0.66	I	4.4	2½		
	31	Fn.–R.	EII	-----		−0.24	0	4.5	2½		
Sept.	4	Fn.–R.	EII	-----		+0.31	0	---	3		R.
	4	Fn.–R.	EII	-----		−0.25	I	4.4	3		

[1] Micrometer readings doubtful.

				s	″	″					
1913											
Nov.	3	Fn.	EI	----		+0.06	0	---	3½		R.
	3	Fn.	EI	+0.16		−0.95	0	---	3½		
	4	R.	EI	----		−0.36	0	---	4		R.
	4	R.	EI	+0.07		−0.39	I	---	4		
	5	Hd.	EI	----		−1.15	0	---	2		R.
	5	Hd.	EI	+0.15		+0.13	I	4.9	2		
	6	Fn.	EI	----		−0.42	0	---	3		R.
	6	Fn.	EI	+0.02		−0.62	0	5.0	3		
	7	R.	EI	----		−0.45	0	---	3½		R.
	7	R.	EI	+0.32		[−2.51][1]	I	---	3½		
	10	Fn.	WI	+0.08		+0.18	0	---	4		
	11	R.	WI	----		+0.57	0	---	2½		R.
	11	R.	WI	+0.21		−0.07	I	4.4	2½		
	12	Hd.	WI	----		−0.72	0	---	3		R.
	12	Hd.	WI	+0.08		+0.67	I	3.9	3		
	13	Fn.	WI	----		−0.14	0	---	4		R.
	13	Fn.	WI	−0.03		−0.84	0	---	3½		
	17	Fn.	WI	----		−0.65	0	---	2		R.
	17	Fn.	WI	0.00		−0.80	0	5.0	2		
	19	Hd.	WI	−0.05		+0.28	0	---	3		
	21	R.	WI	----		−0.93	I	---	2		R.
	21	R.	WI	+0.06		−0.60	I	3.9	2		
	22	Hd.	WI	----		−1.30	I	---	3		R.
	22	Hd.	WI	−0.35		−0.96	I	4.4	3		
	24	Fn.	WI	−0.08		[−1.86][2]	0	---	4		
	25	R.	EI	----		−0.22	I	---	2		R.
	25	R.	EI	+0.02		[+2.23][1]	I	---	2		
Dec.	*5*	*Fn.*	*EI*	*+0.03*	*−0.16*	*−0.23*	*0*	---	*3*		
1914											
Oct.	30	An.	EI	----		−0.35	0	---	3½		
	31	Fn.	EI	----		−0.26	0	---	3		R.
	31	Fn.	EI	−0.18		−0.25	0	---	3		
Nov.	2	Wy.	WI	+0.07		+0.89	I	4.4	3½		
	3	Hd.	WI	----		−0.63	0	---	4		R.
	3	Hd.	WI	−0.14		−0.32	I	4.9	3½		
	4	Fn.	WI	----		−1.03	0	---	3		R.
	4	Fn.	WI	−0.28		−0.36	0	5.0	3½		
	5	Wy.	WI	+0.16		+0.51	0	5.5	4		
	9	Fn.	WI	+0.07		+0.32	0	5.0	2½		
	10	An.	WI	----		−0.90	I	3.9	3½		
	11	Hd.	WI	+0.18		+0.14	I	4.4	3½		
	13	Wy.	WI	−0.12		−0.69	0	---	4		
	16	Wy.	EI	+0.04		[+2.14]	0	5.0	4		
	17	Fn.	EI	----		−0.03	0	---	2½		R.
	17	Fn.	EI	−0.04		−0.56	0	5.0	2½		
	18	Hd.	EI	----		−0.22	0	---	3		R.
	18	Hd.	EI	+0.09		−0.43	I	4.4	2		
	19	Wy.	EI	+0.14		−0.96	I	4.4	2½		
	20	Fn.	EI	+0.11		−1.26	0	---	3½		
	23	Hd.	EI	----		−0.43	0	---	3		R.
	23	Hd.	EI	+0.25		−0.60	I	3.9	2½		
	24	Wy.	EI	+0.36		−0.91	0	---	3		
1915											
Nov.	1	Fn.	EI	----		−0.65	0	---	3½		R.
	1	Fn.	EI	−0.16		+0.15	0	5.0	3½		
	2	Wy.	EI	----		−1.65	0	---	3½		R.
	2	Wy.	EI	+0.13		−0.38	0	5.5	3½		
	3	Hd.	EI	----		−0.70	0	---	3		R.
	3	Hd.	EI	0.00		+0.38	I	3.9	3		
	5	Wy.	EI	−0.13		0.00	I	4.4	2½		
	6	Hd.	EI	----		−0.92	0	---	3½		R.
	6	Hd.	EI	+0.18		−0.43	0	---	3		
	8	Wy.	EI	----		−1.37	I	---	2		R.
	8	Wy.	EI	−0.06		−0.84	I	4.4	2		
	9	Hd.	WI	−0.09		−0.78	0	5.5	3½		
	10	Fn.	WI	----		−1.53	0	---	2½		R.
	10	Fn.	WI	−0.19		−1.76	0	5.5	2½		
	13	Fn.	WI	−0.22		−0.68	0	---	3½		
	15	Hd.	WI	0.00		−0.25	0	5.5	3½		
	16	Fn.	WI	----		−0.40	0	---	3		R.
	16	Fn.	WI	+0.20		−0.11	0	5.0	3		
	17	Wy.	WI	----		−1.14	0	---	3		R.
	17	Wy.	WI	−0.09		−0.86	0	5.0	3		
	20	Wy.	EI	----		−1.41	0	---	3½		R.
	20	Wy.	EI	−0.11		−1.34	0	5.0	3½		
	22	Fn.	EI	----		[+1.42]	0	---	4		R.
	22	Fn.	EI	+0.13		−1.13	0	5.0	2½		

[2] Only one bisection.

			s	″			
1916							
Oct. 6	Wy.	WI	−0.02	−0.49	0	5.0	4
23	Wy.	WI	−0.37	−0.24	0	5.0	3
24	Hd.	WI	−0.10	−0.22	I	3.9	3
26	Wy.	EI	−0.21	−0.42	I	4.4	3½
27	Hd.	EI	−0.11	−0.34	I	4.9	3
31	Fn.	EI	−0.40	----	0	---	3
Nov. 2	Hd.	EI	−0.04	+1.04	0	---	3½
3	Fn.	EI	−0.11	−0.46	0	5.0	2½
10	Fn.	EI	−0.21	−0.48	0	5.0	2½
1917							
Sept. 18	Wy.	EII	−0.01	−0.28	0	5.0	3
20	Hd.	WII	−0.16	−0.82	0	5.0	3
Oct. 22	Hd.	EII	−0.04	−0.30	I	4.9	3
Nov. 2	Fn.	EII	−0.06	−0.44	0	5.0	3
Mean	1914.86		−0.010	−0.39			
	1914.87						
Corr			−0.081	+0.46			

h Ursæ Majoris

	h	m	s	°	′	″
	9	24	26.895	+63	27	21.60

1912							
Feb. 14	R.	EII	−0.12	+0.39	0	---	1
Mar. 2	R.	WII	−0.14	+0.31	I	4.4	1
9	R.	EII	−0.15	+0.24	0	---	2
25	Fn.	WII	−0.12	+0.24	I	2.9	1½
1915							
Dec. 23	Hd.	WI	−0.17	+0.59	I	3.4	3
1916							
Jan. 3	Wy.	EI	−0.09	+0.21	I	3.9	2½
7	Wy.	EI	−0.05	−0.19	I	3.9	2½
Feb. 9	Hd.	WI	−0.05	+0.78	I	2.9	2½
Mean	1914.10		−0.112	+0.32			
Corr			−0.081	−0.33			

Bradley 1334

			h	m	s	°	′	″			
1913											
Feb. 15	R.	WII	9	24	34.914	−2	22	30.70	0	---	--
17	Fn.	EII			34.952			30.93	0	5.4	3
18	Hd.	EII			34.908			30.78	I	4.4	2
Mar. 18	Hd.	WII			34.922			30.55	I	4.4	3
Dec. 8	Hd.	EI			34.972			30.88	I	4.9	3
11	Hd.	EI			34.908			31.26	I	4.9	3
29	Hd.	WI			34.959			31.05	I	4.9	3
1914											
Jan. 27	R.	WI			34.902			31.36	0	---	5
Mean	1913.57		9	24	34.930	−2	22	30.94			
Corr					−0.081			−0.17			

Bradley 1331

			h	m	s	°	′	″			
1912											
Mar. 10	Fn.	EII	9	25	17.078	+34	3	6.21	0	6.5	3
22	Hd.	EII			17.090			6.41	0	6.5	2
26	Hd.	WII			17.095			6.31	0	5.8	--
31	Hd.	WII			17.131			6.39	0	6.2	2
1915											
Nov. 27	Wy.	EI			17.102			6.23	I	5.4	2
29	Wy.	EI			17.098			6.17	0	6.0	3
Dec. 6	Hd.	WI			17.087			5.93	0	6.5	2
9	Fn.	WI			17.057			5.28	0	6.0	2½
Mean	1914.07		9	25	17.092	+34	3	6.12			
Corr					−0.081			−0.26			

ε Antliæ

			h	m	s	°	′	″			
1913											
Mar. 11	Hd.	EII	9	25	31.806	−35	33	26.80	0	6.5	3
28	Fn.	EII			31.825			25.74	0	5.7	3½
Apr. 6	R.	WII			31.856			27.49	0	6.0	2
16	Hd.	WII			31.843			26.14	0	6.0	3½

			h	m	s	°	′	″			
1914											
Mar. 12	Fn.	WI			31.851			27.40	0	5.5	3
13	Wy.	WI			31.841			27.66	0	6.0	3
22	Wy.	EI			31.779			26.71	0	6.5	3½
23	Fn.	EI			31.850			26.87	0	5.5	3½
Mean	1913.73		9	25	31.831	−35	33	26.85			
Corr					−0.081			+0.15			

Weisse$_2$ IX 477

	h	m	s	°	′	″
	9	26	2.459	+27	47	1.27

1912							
Apr. 6	R.	EII	2.459	1.27	0	---	2½
8	Fn.	WII	2.498	1.10	0	6.5	1
9	Hd.	WII	2.500	1.00	0	6.5	3
11	Fn.	EII	2.483	0.40	0	6.7	2½
1915							
Dec. 21	Hd.	WI	2.439	0.79	0	6.5	2
22	Fn.	WI	2.471	0.77	0	7.0	3
1916							
Jan. 8	Fn.	EI	2.469	0.14	0	7.0	2½
14	Hd.	EI	2.505	0.86	0	6.5	2
Mean	1914.14		2.478	0.79			
Corr			−0.081	−0.25			

d Ursæ Majoris

	h	m	s	°	′	″
	9	26	32.598	+70	13	36.03

1912								
Dec. 13	Fn.	EII	−0.23	+0.53	0	5.2	2	
30	Fn.	WII	−0.09	+0.74	0	5.0	2	
1913								
Jan. 3	Fn.	WII	−0.20	+1.50	0	---	3½	
18	R.	EII	−0.04	+0.44	I	4.4	1½	
1914								
Jan. 31	Fn.	WI	−0.11	+0.19	0	5.0	2½	
Feb. 2	Hd.	WI	−0.03	+0.50	0	---	3	
3	Fn.	EI	−0.12	+0.58	0	---	2½	
9	Hd.	EI	−0.01	+0.51	I	4.4	3	
1915								
Feb. 10	Hd.–An.	EI	----	+0.10	0	---	2½	R.
17	Fn.–Wy.	EI	----	−0.23	0	---	2	R.
18	Hd.–An.	EI	----	+0.45	I	4.4	3	
19	Fn.–Wy.	EI	----	+0.56	I	3.9	2½	
20	An.–Hd.	WI	----	+0.48	0	---	2½	R.
21	An.–Hd.	WI	----	−0.17	I	5.4	3	
Mar. 1	Wy.–Fn.	WI	----	+0.85	I	3.9	3	
8	Wy.–Fn.	WI	----	+0.03	0	---	--	R.
9	Wy.–Fn.	WI	----	+0.67	0	---	3	R.
1916								
Mar. 23	Hd.–Wy.	WI	----	−0.07	0	---	2	R.
24	Hd.–Wy.	WI	----	+0.91	0	---	3	
31	Hd.–Wy.	EI	----	+0.37	0	---	3	R.
Apr. 10	Hd.–Wy.	EI	----	+0.16	I	4.4	2	
13	Hd.–Fn.	EI	----	+0.58	0	---	3	
15	Hd.–Fn.	EI	----	0.00	I	---	3	R.
18	Hd.–Fn.	EI	----	+0.34	I	3.9	3	
19	Hd.–Fn.	WI	----	+0.17	0	---	3	
20	Hd.–Wy.	WI	----	+0.24	0	---	3½	R.
Mean	1913.55			−0.104		+0.52		
	1914.73							
Corr				−0.081		−0.34		

d Ursæ Majoris s. p.

	h	m	s	°	′	″
	9	26	32.598	+70	13	35.94

1912							
Sept. 14	R.	WII	−0.15	+0.39	0	6.0	3
17	R.	WII	−0.11	+0.28	0	---	4
28	R.	EII	+0.12	−0.77	0	6.0	2
Oct. 2	R.	EII	−0.17	+0.14	I	4.9	3½
3	Hd.	EII	−0.15	+0.10	0	6.0	4
1914							
July 28	Hd.	EI	−0.19	−0.14	0	6.0	3½
31	Fn.	EI	−0.13	−0.89	0	---	4

			s	″			
1914							
Aug. 13	Hd.	WI	−0.08	−1.02	0	6.0	3½
18	Wy.	WI	−0.11	−0.73	0	6.0	3½
Mean	1913.56		−0.108	−0.29			
Corr			−0.081	+0.60			

θ Ursæ Majoris

h	m	s	°	′	″
9	26	50.209	+52	5	14.55

			s	″			
1912							
Apr. 16	Hd.	EII	−0.007	−0.01	I	2.9	2
19	Hd.	EII	+0.017	+0.57	I	2.7	3
20	Fn.	WII	−0.014	+0.01	I	3.8	1½
22	Fn.	WII	+0.005	−0.08	I	2.8	2
1915							
Nov. 30	Hd.	EI	+0.055	+0.04	I	2.9	2
Dec. 2	Hd.	EI	−0.027	−0.19	I	---	2
8	Wy.	WI	+0.042	+0.23	II	3.1	2½
10	Hd.	WI	−0.008	+0.37	I	2.9	2
1916							
Sept. 10	*Hd.*	*WI*	*+0.031*	*+0.03*	*0*	---	*2½*
18	*Hd.*	*EI*	*−0.023*	*−0.44*	*0*	---	*3*
24	*Wy.*	*EI*	-----	*−0.45*	*0*	---	*3*
Oct. 8	*Hd.*	*WI*	*+0.014*	*+0.09*	*0*	---	*3*
1917							
Apr. 9	Hd.	WI	+0.022	+0.73	I	3.4	2
23	Wy.	EI	−0.054	+0.64	I	3.4	2
May 3	*Hd.*	*EI*	*−0.028*	*+0.26*	*I*	---	*2*
July 2	*Hd.*	*EII*	-----	*−0.06*	*0*	---	*3½*
Sept. 12	*Hd.*	*EII*	*+0.045*	*−0.47*	*0*	---	*3½*
16	*Hd.*	*EII*	*+0.022*	*−0.17*	*0*	---	*3½*
17	*Wy.*	*EII*	-----	*+0.09*	*0*	---	*3*
30	*Hd.*	*WII*	*+0.042*	*−0.16*	*0*	---	*3*
Oct. 1	*Fn.*	*WII*	*+0.048*	*+0.08*	*0*	---	*3*
Mean	1914.75		+0.003	+0.23			
Corr			−0.081	−0.29			

ξ Leonis

h	m	s	°	′	″
9	27	5.764	+11	41	55.48

			s	″			
1913							
Jan. 21	R.	EII	+0.018	+0.45	I	4.4	2
25	R.	EII	−0.007	+0.53	0	5.5	3½
29	Fn.	WII	+0.008	+0.02	0	5.4	2
Feb. 6	R.	WII	+0.012	−1.27	0	---	5
1914							
Mar. 3	Wy.	WI	−0.013	−0.51	0	5.5	2½
4	Hd.	WI	+0.046	−0.71	0	5.5	2½
18	Hd.	EI	−0.005	−0.07	0	5.5	3
20	Wy.	EI	−0.015	+0.47	0	5.5	3
Mean	1913.64		+0.006	−0.14			
Corr			−0.081	−0.21			

Bradley 1339

			h	m	s	°	′	″			
1912											
Feb. 9	Hd.	EII	9	27	8.286	+10	6	46.53	0	5.5	3
13	Hd.	EII			8.225			46.72	0	6.0	2
23	Hd.	WII			8.226			47.27	0	5.5	--
28	R.	WII			8.225			47.09	0	---	3
1913											
Feb. 13	R.	WII			8.201			46.90	0	6.0	2
14	Fn.	WII			8.238			46.04	0	5.0	2½
25	Hd.	EII			8.252			46.96	0	5.7	2½
28	Fn.	EII			8.222			47.02	0	5.7	3½
1914											
Mar. 9	Fn.	WI			8.260			47.21	0	---	2
10	Wy.	WI			8.222			45.96	0	---	2½
26	Fn.	EI			8.224			46.84	0	5.5	2½
Apr. 13	Fn.	EI			8.157			46.92	0	5.5	2
1915											
Apr. 7	An.	EI			8.220			46.93	I	5.9	2
8	Hd.	EI			8.209			47.79	0	5.5	3

			h	m	s	°	′	″			
1915											
Apr. 12	Hd.	WI			8.234			48.03	I	4.4	2½
13	Fn.	WI			8.210			47.86	0	5.5	2
Mean	1913.69		9	27	8.226	+10	6	47.00			
Corr					−0.081			−0.21			

ψ Argûs [1]

h	m	s	°	′	″
9	27	-----	−40	4	21.26

			s	″			
1912							
Dec. 12	R.	EII	-----	+1.2	0	---	5
1913							
Mar. 29	Hd.	EII	-----	−0.6	0	---	4
1914							
Jan. 9	R.	EI	-----	−3.2	0	---	--
15	Hd.	EI	-----	+2.0	0	---	5
1915							
Apr. 17	An.	WI	-----	+1.5	I	---	4
21	An.	WI	-----	+0.1	0	---	3½
1916							
Jan. 20	Wy.	EI	-----	0.0	0	---	4
23	Fn.	EI	-----	+2.0	0	---	3½
Feb. 3	Fn.	EI	-----	+0.1	0	---	4
Mean	1914.78		-----	+0.34			
Corr			-----	+0.32			

Weisse$_1$ IX 549

			h	m	s	°	′	″			
1912											
Mar. 16	Fn.	EII	9	28	2.288	+2	15	47.45	0	6.4	2
17	R.	EII			2.328			46.57	0	6.5	3½
Apr. 3	R.	WII			2.301			47.43	0	6.5	2½
10	R.	WII			2.292			46.97	0	6.0	4
1915											
Mar. 29	Fn.	EI			2.269			47.64	0	6.0	3
31	An.	EI			2.286			46.84	0	---	--
Apr. 14	An.	WI			2.331			47.30	0	6.0	2
15	Hd.	WI			2.316			47.41	0	6.0	2½
Mean	1913.75		9	28	2.301	+2	15	47.20			
Corr					−0.081			−0.18			

Weisse$_1$ IX 572

			h	m	s	°	′	″			
1913											
Feb. 15	R.	WII	9	28	36.508	−13	7	5.95	0	---	3½
18	Hd.	EII			36.450			5.74	0	6.0	2
19	Fn.	EII			36.450			6.32	0	6.7	3½
Mar. 20	R.	WII			36.493			6.02	0	6.0	3
1914											
Mar. 14	Hd.	WI			36.551			5.83	0	6.5	3
24	Wy.	EI			36.534			5.58	0	6.5	2½
Apr. 3	Wy.	WI			36.500			6.42	0	6.5	2
17	Wy.	EI			36.499			6.18	0	6.0	2½
Mean	1913.70		9	28	36.498	−13	7	6.00			
Corr					−0.081			−0.12			

Bradley 1336

			h	m	s	°	′	″			
1913											
Feb. 7	Fn.	WII	9	28	39.859	+52	27	8.85	0	---	3
8	R.	WII			39.918			7.80	I	4.4	--
Mar. 3	Fn.	EII			39.921			8.77	0	---	2
5	Fn.	EII			39.897			8.30	0	5.0	3
Dec. 12	Fn.	EI			39.818			7.96	0	5.0	3½
13	R.	EI			39.887			7.44	I	4.4	3
18	Hd.	WI			39.904			8.22	I	4.4	2
19	Fn.	WI			39.877			7.83	0	5.0	1½
Mean	1913.55		9	28	39.885	+52	27	8.15			
Corr					−0.081			−0.29			

[1] Double; mean observed.

10 Leonis Minoris

				h	m	s	°	′	″			
				9	28	42.859	+36	47	51.55			
1913												
Mar.	6	Hd.	EII			+0.012			−0.26	I	4.4	2
	7	Fn.	EII			+0.018			+0.21	I	4.6	2
	18	Hd.	WII			+0.001			−0.65	I	3.9	3
	21	Fn.	WII			−0.010			−0.53	0	5.0	3
Dec.	8	Hd.	EI			−0.050			+0.05	I	4.4	2
	11	Hd.	EI			−0.016			+0.55	I	4.4	2
	26	Fn.	WI			−0.028			−0.68	0	5.0	2
	29	Hd.	WI			−0.038			−0.51	I	4.4	2
1915												
Apr.	1	Fn.	EI			−0.042			----	0	5.0	2
1916												
Mar.	10	Fn.	WI			−0.034			----	0	5.0	2½
1917												
Mar.	12	Hd.	EI			+0.007			----	I	4.4	2
	19	Fn.	EI			−0.034			----	0	4.5	1½
	30	Fn.	WI			−0.010			----	0	4.5	2½
Apr.	10	Fn.	WI			+0.001			----	0	5.0	2½
	16	Fn.	WI			+0.009			----	0	5.0	2½
	30	*Hd.*	*EI*			*−0.044*	----		----	*0*	---	*S*
1918												
Mar.	28	Fn.	WII			+0.030			----	0	5.0	2
Apr.	2	Fn.	EII			+0.010			----	0	5.0	3
	5	Fn.	EII			+0.037			----	0	---	2
Mean		1915.62				−0.008			−0.23			
		1913.58										
Corr						−0.081			−0.26			

Lalande 18884

				h	m	s	°	′	″			
1912												
Apr.	4	Fn.	EII	9	31	22.649	−19	10	49.00	0	---	3
	6	R.	EII			22.674			49.68	0	---	4
	8	Fn.	WII			22.614			48.80	0	6.7	3½
	9	Hd.	WII			22.672			49.68	0	6.0	3½
1915												
Nov.	27	Wy.	EI			22.673			49.61	0	7.0	3
	29	Wy.	EI			22.661			50.13	0	7.0	3½
Dec.	6	Hd.	WI			22.719			50.99	0	6.5	3
	8	Wy.	WI			22.635			50.35	0	7.0	3½
Mean		1914.09		9	31	22.662	−19	10	49.78			
Corr						−0.081			−0.09			

B. D.+67° 602

				h	m	s	°	′	″			
1912												
Apr.	16	Hd.	EII	9	32	1.01	+67	40	41.20	0	6.0	2
	19	Hd.	EII			1.01			41.39	0	6.0	3
	20	Fn.	WII			1.11			41.88	0	6.3	1½
	22	Fn.	WII			1.12			41.81	0	6.3	2
1915												
Nov.	30	Hd.	EI			1.06			41.62	0	6.5	2
Dec.	2	Hd.	EI			0.94			41.85	0	---	2
	9	Fn.	WI			1.04			41.61	0	6.0	1½
	10	Hd.	WI			0.99			41.73	0	6.5	2
Mean		1914.11		9	32	1.035	+67	40	41.64			
Corr						−0.081			−0.34			

10 Leonis

				h	m	s	°	′	″				
1916													
Apr.	15	Hd.–Fn.	EI	9	32	-----	+7	14	23.02	I	4.9	2	
	18	Hd.–Fn.	EI			-----			21.35	0	---	3	R.
	19	Hd.–Fn.	WI			-----			22.47	0	---	3	R.
	20	Hd.–Wy.	WI			-----			23.30	0	---	3½	
Mean		1916.30		9	32	-----	+7	14	23.16				
Corr						-----			−0.20				

B. D.+43° 1943

				h	m	s	°	′	″			
1912												
Feb.	9	Hd.	EII	9	33	27.926	+43	33	5.80	0	6.5	3
	13	Hd.	EII			27.890			5.53	0	6.8	2
	23	Hd.	WII			27.888			5.72	0	6.0	--
	28	R.	WII			27.941			5.89	0	7.0	2
1915												
Apr.	1	Fn.	EI			27.907			5.89	0	7.0	2
	6	Wy.	EI			27.893			5.38	0	6.5	2½
	12	Hd.	WI			27.887			6.28	0	6.5	2½
	13	Fn.	WI			27.900			6.15	0	6.5	2
Mean		1913.70		9	33	27.904	+43	33	5.83			
Corr						−0.081			−0.28			

Weisse$_2$ IX 656

				h	m	s	°	′	″			
1912												
Feb.	14	R.	EII	9	33	51.830	+20	42	13.86	0	7.5	1
Mar.	2	R.	WII			51.815			13.52	0	7.5	1
	7	Fn.	WII			51.858			13.36	0	7.2	2
	9	R.	EII			51.862			14.58	0	7.5	2
1915												
Apr.	7	An.	EI			51.810			13.39	0	7.0	2
	8	Hd.	EI			51.838			13.79	0	7.0	3
	14	An.	WI			51.846			14.06	0	7.0	1½
	15	Hd.	WI			51.803			14.21	0	7.0	2
Mean		1913.72		9	33	51.833	+20	42	13.85			
Corr						−0.081			−0.23			

ι Hydræ

				h	m	s	°	′	″			
1912												
Dec.	13	Fn.	EII	9	35	15.650	−0	44	2.30	I	3.9	2½
	22	R.	WII			15.665			2.08	I	4.4	3
1913												
Jan.	3	Fn.	WII			15.603			1.78	0	---	4
	18	R.	EII			15.642			1.39	I	3.9	2
	29	Fn.	WII			15.675			2.45	I	3.9	2½
Dec.	8	Hd.	EI			15.674			2.24	I	3.9	3
	11	Hd.	EI			15.676			2.33	I	3.9	3
	18	Hd.	WI			15.643			1.96	I	4.4	2
	19	Fn.	WI			15.653			1.67	I	4.4	2½
Mean		1913.43		9	35	15.653	−0	44	2.02			
Corr						−0.081			−0.18			

Bradley 1358

				h	m	s	°	′	″			
1912												
Mar.	10	Fn.	EII	9	35	23.793	−10	9	47.42	0	---	--
	17	R.	EII			23.774			46.15	0	7.5	3
	25	Fn.	WII			23.738			45.87	0	6.2	2
	26	Hd.	WII			23.795			46.71	0	---	3½
1915												
Nov.	24	Wy.	EI			23.759			46.37	0	6.5	3
	27	Wy.	EI			23.704			46.46	0	6.5	3
Dec.	21	Hd.	WI			23.746			46.51	0	6.0	3
	22	Fn.	WI			23.783			47.41	0	7.0	3
Mean		1914.08		9	35	23.762	−10	9	46.61			
Corr						−0.081			−0 14			

κ Hydræ

				h	m	s	°	′	″			
1913												
Jan.	21	R.	EII	9	35	59.511	−13	55	24.89	I	4.9	1½
	25	R.	EII			59.492			24.97	0	5.0	3
Feb.	7	Fn.	WII			59.567			25.86	0	---	4
	8	R.	WII			59.503			25.89	0	5.5	3½
Dec.	12	Fn.	EI			59.566			[27.64][1]	0	5.0	3½
	13	R.	EI			59.520			25.80	0	---	4½
	26	Fn.	WI			59.516			24.89	0	5.0	3
	29	Hd.	WI			59.497			24.88	0	6.0	3
Mean		1913.53		9	35	59.522	−13	55	25.31			
		1913.47										
Corr						−0.081			−0.12			

[1] One bisection only.

o Leonis

			h	m	s	°	′	″			
			9	36	20.895	+10	18	8.04			
1912											
Mar. 22	Hd.	EII			+0.026			−0.31	I	---	2
31	Hd.	WII			+0.011			−0.25	I	3.4	2
Apr. 3	R.	WII			−0.015			+0.41	I	3.9	1½
4	Fn.	EII			+0.048			−0.57	I	---	2
1915											
Feb. 10	Hd.–An.	EI			-----			−1.54	I	---	2 R.
17	Fn.–Wy.	EI			-----			−1.76	0	---	2½ R.
18	Hd.–An.	EI			-----			−0.65	I	3.4	3
19	Fn.–Wy.	EI			-----			−0.47	I	3.4	2½
20	An.–Hd.	WI			-----			−1.07	0	---	2½ R.
21	An.–Hd.	WI			-----			−0.62	I	4.9	3
Mar. 1	Wy.–Fn.	WI			-----			−1.28	II	3.1	3
8	Wy.–Fn.	WI			-----			−1.59	I	---	-- R.
9	Wy.–Fn.	WI			-----			−0.48	I	---	3 R.
Nov. 29	Wy.	EI			+0.009			−1.26	I	3.9	3½
30	Hd.	EI			+0.027			−0.53	I	3.9	3
Dec. 8	Wy.	WI			−0.018			−0.21	I	3.9	2½
9	Fn.	WI			−0.008			−1.54	I	3.9	2½
1916											
Apr. 13	Hd.–Fn.	EI			-----			−1.56	0	---	3 R.
15	Hd.–Fn.	EI			-----			−0.45	I	3.9	2
18	Hd.–Fn.	EI			-----			−1.73	I	---	3 R.
19	Hd.–Fn.	WI			-----			−0.82	I	---	3 R.
20	Hd.–Wy.	WI			-----			−0.69	I	4.4	3½
Mean		1914.09			+0.010			−0.60			
		1914.70									
Corr					−0.081			−0.21			

Bradley 1354

			h	m	s	°	′	″			
1913											
Feb. 14	Fn.	WII	9	36	26.055	+40	10	6.54	0	5.6	2½
15	R.	WII			26.020			6.10	0	5.5	2
28	Fn.	EII			26.102			6.96	0	6.2	3½
Mar. 3	Fn.	EII			26.107			7.32	0	---	2
1914											
Jan. 27	R.	WI			26.035			6.64	0	6.0	2½
28	Fn.	WI			26.065			6.47	0	5.5	3
Feb. 7	Wy.	EI			26.059			6.17	0	---	3
26	Fn.	EI			26.101			6.86	0	6.0	2
Mean		1913.62	9	36	26.068	+40	10	6.63			
Corr					−0.081			−0.27			

Groombridge 1573

			h	m	s	°	′	″			
1912											
Apr. 6	R.	EII	9	36	48.287	+48	50	29.90	0	7.0	3
8	Fn.	WII			48.359			29.87	0	6.5	1
9	Hd.	WII			48.344			29.79	0	6.2	3
11	Fn.	EII			48.325			29.82	0	6.5	3
1915											
Mar. 29	Fn.	EI			48.332			29.77	0	6.5	3
31	An.	EI			48.346			29.80	0	---	--
Apr. 17	An.	WI			48.286			29.73	0	7.0	2
19	Fn.	WI			48.231			30.78	0	---	2½
21	An.	WI			48.336			30.26	0	7.0	2
Mean		1913.94	9	36	48.316	+48	50	29.97			
Corr					−0.081			−0.29			

13 Leonis Minoris

			h	m	s	°	′	″			
1913											
Mar. 5	Fn.	EII	9	37	17.499	+35	30	18.45	0	6.7	2
6	Hd.	EII			17.477			18.53	0	6.0	2
18	Hd.	WII			17.487			18.51	0	6.2	2
20	R.	WII			17.484			17.58	0	6.0	2
1914											
Jan. 29	Wy.	WI			17.473			18.67	0	6.5	3½
31	Fn.	WI			17.489			19.00	0	6.5	2½
Feb. 27	Wy.	EI			17.485			17.96	0	6.0	1½
Mar. 18	Hd.	EI			17.454			18.57	0	6.0	3
Mean		1913.66	9	37	17.481	+35	30	18.41			
Corr					−0.081			−0.26			

ψ Leonis

			h	m	s	°	′	″			
1912											
Feb. 13	Hd.	EII	9	38	49.966	+14	26	1.35	0	6.0	2
14	R.	EII			49.990			2.23	0	6.0	1
23	Hd.	WII			49.934			2.16	0	5.8	--
28	R.	WII			49.908			2.26	0	5.5	3
1915											
Dec. 2	Hd.	EI			49.966			2.06	0	6.0	3
4	Fn.	EI			49.975			2.26	0	6.0	2
6	Hd.	WI			49.967			1.83	0	6.0	2
10	Hd.	WI			49.930			1.54	0	6.0	2
Mean		1914.03	9	38	49.954	+14	26	1.96			
Corr					−0.081			−0.22			

θ Antliæ

			h	m	s	°	′	″			
			9	40	11.356	−27	21	25.28			
1913											
Mar. 12	Fn.	EII			+0.026			−0.42	0	6.5	3
17	Fn.	WII			−0.018			−0.16	0	5.3	3½
18	Hd.	WII			−0.012			−0.34	0	5.5	3
28	Fn.	EII			+0.032			−0.03	0	6.0	3
1914											
Mar. 4	Hd.	WI			+0.002			−0.71	0	6.0	3
10	Wy.	WI			−0.038			−1.06	0	5.2	2½
23	Fn.	EI			−0.033			−0.45	0	5.5	3
24	Wy.	EI			−0.034			+0.74	0	5.5	3
Mean		1913.71			−0.009			−0.30			
Corr					−0.081			−0.01			

Piazzi IX 167

			h	m	s	°	′	″			
1912											
Mar. 2	R.	WII	9	40	28.378	−22	20	19.76	0	8.0	1½
7	Fn.	WII			28.410			19.09	0	7.4	4
9	R.	EII			28.417			18.97	0	7.5	2
10	Fn.	EII			28.366			19.05	0	---	--
1915											
Nov. 24	Wy.	EI			28.366			19.11	0	7.5	3½
27	Wy.	EI			28.310			19.45	0	7.0	3
Dec. 8	Wy.	WI			28.364			20.45	0	7.5	3½
21	Hd.	WI			28.366			19.44	0	6.5	3
1916											
Feb. 9	Hd.	WI			28.401			20.22	0	7.5	3½
Mean		1914.28	9	40	28.375	−22	20	19.50			
Corr					−0.081			−0.06			

ϵ Leonis

			h	m	s	°	′	″			
			9	40	44.698	+24	11	20.35			
1911						s	″	″			
Oct.	*23*	*Fn.*			*WII*	*+0.049*	*+1.77*	*+1.76*	*0*	---	*3*
	24	*R.*			*WII*	*+0.006*	*+0.40*	*+0.41*	*0*	---	--
	25	*R.*			*WII*	*+0.029*	*+0.16*	*+0.19*	*0*	---	--
	26	*R.*			*WII*	-----	*−0.72*	*−0.71*	*0*	---	--
	29	*R.*			*EII*	*+0.035*	*+0.31*	*+0.32*	*0*	---	--
Nov.	*2*	*R.*			*EII*	*+0.003*	*−0.07*	*−0.07*	*0*	---	--
	10	*Fn.*			*EII*	*−0.014*	*−0.03*	*−0.02*	*0*	---	--
1912											
Mar. 18	Fn.				EII	+0.033		+0.22	I	2.8	2½
22	Hd.				EII	+0.029		−0.27	I	3.4	2
25	Fn.				WII	+0.026		+0.32	I	2.6	1½
Apr. 2	Hd.				WII	+0.047		+0.35	I	---	3
3	R.				WII	+0.041		----	I	2.9	2
4	Fn.				EII	+0.020		----	I	2.7	2
5	Hd.				EII	+0.023		0.00	0	---	--
9	Hd.				WII	+0.033		−0.09	I	2.7	3
10	R.				WII	+0.044		0.00	I	2.9	3½
16	Hd.				EII	+0.012		+0.01	I	---	--
20	Fn.				WII	+0.039		−0.45	I	3.4	1½
22	Fn.				WII	+0.006		−0.08	I	2.8	2
23	Hd.				WII	+0.035		+0.26	I	2.9	2
Sept.	*27*	*R.*			*EII*	*+0.046*	*−0.08*	*−0.05*	*0*	---	*4*
	29	*R.*			*EII*	*+0.082*	*+0.03*	*+0.04*	*0*	---	--
	30	*Hd.*			*EII*	*−0.006*	*+0.03*	*+0.04*	*0*	---	*2*

				s	″	″				
1912										
Oct.	*1*	*Hd.*	*EII*	*+0.075*	*−0.15*	*−0.14*	*0*	---	*3*	
	2	*Hd.*	*EII*	*−0.016*	*+0.92*	*+0.92*	*0*	---	*3*	
	3	*Hd.*	*EII*	*+0.002*	*−0.06*	*−0.04*	*0*	---	*2*	
	4	*Hd.*	*EII*	*−0.035*	*−0.34*	*−0.34*	*0*	---	*2*	
	6	*Hd.*	*WII*	*+0.057*	*+0.04*	*+0.03*	*0*	---	*3*	
	7	*Hd.*	*WII*	*+0.079*	*−0.27*	*−0.25*	*0*	---	*3*	
	9	*Hd.*	*WII*	*−0.001*	*−0.37*	*−0.36*	*0*	---	*3*	
	10	*Hd.*	*WII*	*+0.007*	*+0.33*	*+0.33*	*0*	---	*2*	
	11	*Hd.*	*WII*	*−0.015*	*−0.10*	*−0.08*	*0*	---	*3*	
	16	*R.*	*WII*	-----	*+0.62*	*+0.62*	*0*	---	--	
	17	*Fn.*	*WII*	*+0.064*	*+0.09*	*+0.11*	*0*	---	*1½*	
	20	*Fn.*	*EII*	-----	*−0.54*	*−0.54*	*0*	---	*2½*	
	25	*R.*	*EII*	*+0.073*	*+0.24*	*+0.21*	*0*	---	--	
	29	*Fn.*	*EII*	*+0.034*	*−0.20*	*−0.17*	*0*	---	*3*	
Dec.	13	Fn.	EII	+0.025		----	I	2.5	2	
	22	R.	WII	+0.008		+0.48	I	3.4	2	
	28	R.	WII	+0.029		----	II	2.6	1½	
1913										
Jan.	3	Fn.	WII	+0.035		----	0	---	4	
	18	R.	EII	+0.028		+0.32	II	2.6	2	
	21	R.	EII	+0.008		+0.84	II	2.6	1½	
	25	R.	EII	+0.055		+0.43	I	2.9	3½	
	27	Fn.	EII	+0.020		−0.02	0	---	2	
	29	Fn.	WII	+0.012		+0.42	I	3.4	1½	
Mar.	21	Fn.	WII	+0.040		−0.06	I	2.9	3	
	22	Hd.	WII	+0.058		+0.68	I	2.9	3	
	29	Hd.	EII	−0.003		−0.05	I	2.9	2	
Apr.	5	Hd.	WII	+0.035		+0.38	I	2.7	3	
	16	Hd.	WII	+0.023		+0.46	I	2.9	2	
1914										
Jan.	28	Fn.	WI	−0.003		+0.82	I	2.9	3	
Feb.	2	Hd.	WI	+0.020		+0.94	I	---	3	
	7	Wy.	EI	−0.017		+0.79	I	3.9	3	
	9	Hd.	EI	+0.058		+0.16	I	3.4	3	
Mar.	12	Fn.	WI	+0.035		+0.93	I	3.4	1½	
	13	Wy.	WI	+0.024		+0.66	I	3.4	2	
	14	Hd.	WI	+0.049		+0.03	I	3.4	3	
Apr.	9	Fn.	WI	+0.058		+1.11	I	3.4	2	
	10	Wy.	WI	+0.030		+0.07	I	2.9	2	
	11	Hd.	EI	+0.034		----	I	---	2	
	13	Fn.	EI	+0.060		−0.09	I	2.9	2	
	17	Wy.	EI	+0.025		+0.35	I	2.9	2	
	18	Hd.	EI	+0.029		−0.29	I	3.4	1	
	21	Hd.	EI	+0.031		+0.64	I	2.9	2	
Sept.	*1*	*Wy.*	*WI*	*+0.012*	*−0.26*	*−0.22*	*0*	---	*3½*	
	4	*Wy.*	*WI*	*+0.065*	*+0.89*	*+0.97*	*0*	---	*3½*	
	8	*Fn.*	*EI*	*−0.074*	----	----	*0*	---	*3½*	
	9	*An.*	*EI*	-----	*−0.05*	*0.00*	*0*	---	--	
	14	*An.*	*EI*	*+0.075*	*−2.08*	*−2.03*	*0*	---	*3½*	
	17	*An.*	*EI*	*+0.040*	*+0.09*	*+0.11*	*0*	---	*3½*	
	20	*Hd.*	*EI*	*+0.021*	*−0.15*	*−0.11*	*0*	---	*3*	
	22	*An.*	*EI*	*+0.028*	*+0.34*	*+0.37*	*0*	---	*4*	
	25	*An.*	*EI*	*−0.008*	*−0.76*	*−0.74*	*0*	---	*3½*	
	27	*Hd.*	*WI*	*+0.029*	*+0.42*	*+0.44*	*0*	---	*2½*	
	28	*Wy.*	*WI*	*+0.005*	*−0.16*	*−0.13*	*0*	---	*3½*	
	29	*An.*	*WI*	*+0.036*	*+1.02*	*+0.99*	*0*	---	*4*	
	30	*Hd.*	*WI*	*+0.037*	*+1.02*	*+1.03*	*0*	---	*3*	
Oct.	*1*	*Wy.*	*WI*	*+0.033*	*+1.22*	*+1.24*	*0*	---	*3*	
	19	*Wy.*	*EI*	-----	*+0.77*	*+0.79*	*0*	---	*3*	
	29	*An.*	*EI*	*+0.097*	*−0.47*	*−0.46*	*0*	---	*3*	
Nov.	*4*	*Wy.*	*WI*	*+0.048*	----	----	*I*	---	*3*	
	22	Hd.	EI	+0.041		----	I	2.9	3	
	23	Wy.	EI	+0.030		----	II	2.6	2	
1915										
Apr.	1	Fn.	EI	+0.043		−0.04	I	3.4	2½	
	6	Wy.	EI	+0.037		----	I	2.9	2	
	7	An.	EI	+0.050		+0.04	I	4.4	2½	
	8	Hd.	EI	+0.046		----	I	2.9	2	
	10	An.	EI	+0.024		+0.45	I	3.9	2	
	12	Hd.	WI	+0.015		----	I	2.9	2½	
	13	Fn.	WI	−0.001		----	I	2.9	2½	
	14	An.	WI	−0.016		+1.05	I	2.9	1½	
	15	Hd.	WI	+0.033		----	I	2.9	2	
	17	An.	WI	+0.015		+0.77	I	3.9	2	
	21	An.	WI	+0.016		−0.07	II	3.6	1½	
	24	An.	WI	+0.031		+1.07	II	3.1	2	
Sept.	*12*	*Hd.*	*EI*	*+0.024*	----	----	*0*	---	*3*	
	13	*Wy.*	*EI*	-----	*−0.41*	*−0.38*	*0*	---	*3½*	

				s	″	″				
1915										
Sept.	*19*	*Hd.*	*EI*	*+0.025*	*−0.14*	*−0.10*	*0*	---	*3*	
	21	*Hd.*	*EI*	*+0.080*	*−0.29*	*−0.26*	*0*	---	*3*	
	22	*Hd.*	*EI*	*+0.030*	*−0.40*	*−0.36*	*0*	---	*2½*	
	23	*Wy.*	*EI*	*+0.034*	*+0.47*	*+0.49*	*0*	---	*3½*	
	26	*Hd.*	*EI*	*+0.016*	*+0.35*	*+0.38*	*0*	---	*3*	
	27	*Fn.*	*EI*	*+0.042*	*−0.21*	*−0.19*	*0*	---	*3*	
Oct.	*7*	*Hd.*	*WI*	*+0.012*	*−0.13*	*−0.12*	*0*	---	*2½*	
	8	*Fn.*	*EI*	*−0.040*	*+0.02*	*+0.03*	*0*	---	*3½*	
	11	*Wy.*	*WI*	*+0.017*	*+0.61*	*+0.62*	*0*	---	*3½*	
	22	*Fn.*	*WI*	*+0.042*	*+0.73*	*+0.73*	*0*	---	*3*	
	25	*Fn.*	*WI*	-----	*−0.20*	*−0.20*	*0*	---	*3*	
1916										
Jan.	3	Wy.	EI	+0.058		+0.17	I	3.4	2½	
	7	Wy.	EI	+0.039		+0.21	I	3.4	3	
	8	Fn.	EI	+0.045		----	I	3.4	3	
	14	Hd.	EI	−0.002		+0.23	II	3.1	2	
	20	Wy.	EI	+0.043		+0.16	I	3.4	2½	
	23	Fn.	EI	+0.045		+0.48	I	---	2	
Feb.	3	Fn.	EI	+0.048		−0.47	I	3.4	2	
	11	Fn.	WI	+0.012		+1.20	0	---	2½	
	28	Fn.	WI	+0.034		----	0	---	2	
	29	Hd.	WI	+0.025		−0.30	I	2.9	2½	
Mar.	3	Hd.	WI	−0.052		+0.62	I	3.4	3	
	4	Wy.	WI	+0.011		−0.27	I	3.4	3	
	5	Fn.	WI	+0.050		+0.53	0	---	2½	
	9	Fn.	WI	+0.047		+0.31	I	2.9	3	
	10	Fn.	WI	−0.014		----	I	3.4	2½	
	11	Wy.	WI	+0.041		+0.48	I	3.4	2	
Apr.	13	Hd.–Fn.	EI	-----		−0.12	0	---	3	
	15	Hd.–Fn.	EI	-----		+0.27	I	---	2	R.
	18	Hd.–Fn.	EI	-----		+0.72	I	3.4	3	
	19	Hd.–Fn.	WI	-----		+0.14	I	3.4	2	
	20	Hd.–Wy.	WI	-----		−0.48	I	---	3½	R.
Sept.	*10*	*Hd.*	*WI*	*+0.041*	*−0.62*	*−0.58*	*0*	---	*3*	
	18	*Hd.*	*EI*	*−0.053*	*−1.23*	*−1.21*	*0*	---	*3½*	
	21	*Hd.*	*EI*	*−0.004*	*−0.26*	*−0.22*	*0*	---	*3½*	
	24	*Wy.*	*EI*	*0.000*	*+0.16*	*+0.18*	*0*	---	*3½*	
Oct.	*1*	*Wy.*	*WI*	*+0.061*	*+0.89*	*+0.90*	*0*	---	*3½*	
	25	*Wy.*	*EI*	*+0.056*	*+0.15*	*+0.16*	*0*	---	*3*	
Nov.	*1*	*Hd.*	*EI*	*+0.029*	*−0.26*	*−0.23*	*I*	---	*3*	
1917										
Mar.	19	Fn.	EI	+0.040		----	I	2.9	1½	
	30	Fn.	WI	+0.033		----	I	2.9	2½	
Apr.	9	Hd.	WI	+0.011		−0.27	I	3.4	2	
	10	Fn.	WI	+0.008		+0.83	I	2.9	2½	
	16	Fn.	WI	+0.059		+0.72	I	3.9	2½	
	23	Wy.	EI	−0.012		+0.16	I	3.4	2½	
May	*3*	*Hd.*	*EI*	*+0.030*	*+0.05*	*+0.04*	*I*	---	*2*	
	10	*Fn.*	*WI*	*+0.030*	*+0.29*	*+0.28*	*0*	---	*2*	
	15	*Hd.*	*WI*	*+0.027*	*+0.68*	*+0.67*	*0*	---	*2*	
June	*25*	*Wy.*	*WII*	*+0.016*	*−0.87*	*−0.84*	*0*	---	*3½*	
July	*2*	*Hd.*	*EII*	-----	*−0.63*	*−0.60*	*0*	---	*3*	
Sept.	*12*	*Hd.*	*EII*	*+0.117*	*−0.46*	*−0.40*	*0*	---	*3½*	
	16	*Hd.*	*EII*	*+0.005*	*−0.45*	*−0.41*	*0*	---	*3½*	
	17	*Wy.*	*EII*	*+0.053*	*−0.79*	*−0.75*	*0*	---	*3½*	
	19	*Hd.*	*WII*	*+0.028*	*−0.42*	*−0.40*	*0*	---	*3*	
	30	*Hd.*	*WII*	*+0.081*	*−0.34*	*−0.32*	*0*	---	*3*	
Oct.	*1*	*Fn.*	*WII*	*+0.010*	*0.00*	*+0.02*	*0*	---	*3*	
	15	*Wy.*	*EII*	*−0.018*	*−0.34*	*−0.35*	*0*	---	*3½*	
	21	*Hd.*	*EII*	*+0.067*	*+0.28*	*+0.31*	*0*	---	*3½*	
	25	*Fn.*	*EII*	*+0.004*	*+0.90*	*+0.90*	*0*	---	*3½*	
Nov.	*1*	*Fn.*	*EII*	*+0.028*	*+0.60*	*+0.62*	*0*	---	*3*	
1918										
Mar.	25	Fn.	WII	+0.047		−0.70	I	2.9	2½	
	28	Fn.	WII	+0.012		−0.72	I	2.9	2½	
Apr.	5	Fn.	EII	+0.040		----	I	3.4	1½	
	15	Fn.	EII	+0.073		+0.37	I	3.4	2	
June	*19*	*Wy.*	*WII*	*−0.008*	*−1.60*	*−1.57*	*0*	---	*3½*	
Mean			1914.68	+0.028		+0.28				
			1914.67							
Corr				−0.081		−0.24				

Weisse$_2$ IX 800

				h	m	s	°	′	″				
1913													
Feb.	6	R.	WII	9	40	52.098	+19	5	54.47	0	7.0	2½	
	8	R.	WII			52.173			54.10	0	7.0	2½	
	28	Fn.	EII			52.122			54.53	0	7.3	3½	

				h m s	° ′ ″			
1913								
Mar. 7	Fn.	EII		52.107	55.08	0	6.5	1½
Dec. 12	Fn.	EI		52.129	54.19	0	7.0	3½
13	R.	EI		52.109	54.26	0	7.0	2½
29	Hd.	WI		52.106	55.18	0	7.0	3
1914								
Jan. 27	R.	WI		52.112	54.33	0	7.0	2
Mean	1913.56		9	40 52.120	+19 5 54.52			
Corr				−0.081	−0.23			

Åbo 1830, 205

				h m s	° ′ ″			
1912								
Mar. 26	Hd.	WII	9	41 25.261	+7 7 27.60	0	6.0	..
31	Hd.	WII		25.300	27.53	0	6.0	2
Apr. 11	Fn.	EII		25.242	26.96	0	...	..
19	Hd.	EII		25.291	27.33	0	6.0	3
1915								
Nov. 29	Wy.	EI		25.271	27.31	0	6.0	3
30	Hd.	EI		25.294	27.31	0	...	2
Dec. 22	Fn.	WI		25.311	27.60	0	6.5	3
23	Hd.	WI		25.314	27.14	0	6.0	3½
Mean	1914.10		9	41 25.286	+7 7 27.35			
Corr				−0.081	−0.20			

Bradley 1369

				h m s	° ′ ″			
1912								
Apr. 3	R.	WII	9	42 47.506	+46 26 26.41	0	5.5	1
4	Fn.	EII		47.540	26.32	0	5.3	2
6	R.	EII		47.441	26.64	0	5.0	2½
8	Fn.	WII		47.486	27.05	0	5.1	1
1915								
Mar. 29	Fn.	EI		47.548	26.58	0	5.5	3
31	An.	EI		47.562	25.66	I	4.9	2½
Apr. 8	Hd.	EI		47.593	.....	I	4.9	2
12	Hd.	WI		47.521	27.26	I	4.9	2½
13	Fn.	WI		47.528	27.22	0	5.5	2
15	Hd.	WI		47.556	.....	I	4.9	2
19	Fn.	WI		47.497	.....	0	...	2½
1916								
Feb. 28	Fn.	WI		47.549	.....	0	...	2
Mar. 10	Fn.	WI		47.550	.....	0	5.0	2½
1917								
Mar. 30	Fn.	WI		47.602	.....	0	5.5	2½
1918								
Apr. 5	Fn.	EII		47.612	.....	0	5.0	1½
Mean	1914.92		9	42 47.539	+46 26 26.64			
	1913.76							
Corr				−0.081	−0.28			

υ Ursæ Majoris

				h m s	° ′ ″			
			9	44 35.794	+59 27 44.45			
1911								
Nov. 12	Hd.	EII		+0.087	−0.37	0	...	4
15	Hd.	EII		+0.049	+0.25	0	...	2½
16	Hd.	EII		−0.078	−0.12	I	2.9	2
21	R.	EII		−0.012	+0.23	I	3.9	2
26	Hd.	WII		+0.011	+0.61	I	2.9	2
30	Hd.	WII		+0.037	+0.31	0	...	3
Dec. 4	R.	WII		−0.002	+0.44	I	3.9	1
5	R.	WII		+0.054	+0.82	I	4.4	3½
6	R.	WII		+0.022	+0.41	I	4.4	1
1915								
Feb. 10	Hd.–An.	EI		.....	+0.09	I	...	2 R.
17	Fn.–Wy.	EI		.....	−0.47	0	...	2½ R.
18	Hd.–An.	EI		.....	+0.15	I	3.4	3
19	Fn.–Wy.	EI		.....	+0.52	I	3.9	2½
20	An.–Hd.	WI		.....	+0.59	I	...	2 R.
21	An.–Hd.	WI		.....	−0.09	I	5.4	3
Mar. 1	Wy.–Fn.	WI		.....	+0.11	I	3.9	2½
9	Wy.–Fn.	WI		.....	+0.16	I	...	3 R.
Nov. 24	Wy.	EI		+0.052	+0.23	I	3.4	2½
27	Wy.	EI		+0.001	−0.52	I	3.9	2

				s	″	″			
1915									
Dec. 6	Hd.	WI		−0.004		+0.18	I	3.4	2
10	Hd.	WI		−0.037		+0.19	I	3.4	2
1916									
Mar. 23	Hd.–Wy.	WI		.....		+0.71	I	3.9	2
24	Hd.–Wy.	WI		.....		+0.52	0	...	2½ R.
31	Hd.–Wy.	EI		.....		+0.39	I	4.4	2
Apr. 10	Hd.–Wy.	EI		.....		+0.91	I	...	2 R.
15	Hd.–Fn.	EI		.....		+0.71	I	2.9	2
18	Hd.–Fn.	EI		.....		−0.26	I	...	3 R.
19	Hd.–Fn.	WI		.....		+0.65	I	...	2½ R.
20	Hd.–Wy.	WI		.....		+0.63	I	4.4	3
Sept. 18	*Hd.*	*EI*		*−0.124*	*+0.20*	*+0.16*	*0*	...	*3½*
24	*Wy.*	*EI*		*+0.016*	*−0.35*	*−0.38*	*0*	...	*3½*
1917									
Mar. 30	Fn.	WI		+0.056		+1.20	I	4.4	2½
Apr. 9	Hd.	WI		−0.043		+1.19	I	3.9	2
23	Wy.	EI		+0.019		+0.72	I	3.4	2½
30	Hd.	EI		−0.027		−0.09	I	3.9	2½
May 10	*Fn.*	*WI*		*−0.023*	*+1.75*	*+1.76*	*0*	...	*2½*
15	*Hd.*	*WI*		*+0.032*	*+1.25*	*+1.26*	*0*	...	*2*
Sept. 16	*Hd.*	*EII*		*−0.001*	*−0.29*	*−0.35*	*0*	...	*3½*
17	*Wy.*	*EII*		*+0.098*	*−0.67*	*−0.73*	*0*	...	*3½*
30	*Hd.*	*WII*		*+0.021*	*+0.52*	*+0.50*	*0*	...	*3*
Oct. 1	*Fn.*	*WII*		*+0.002*	*+0.42*	*+0.39*	*0*	...	*3*
25	*Fn.*	*EII*		*−0.067*	*−0.21*	*−0.21*	*0*	...	*3½*
Nov. 1	*Fn.*	*EII*		*−0.014*	*+0.89*	*+0.86*	*0*	...	*3*
1918									
Mar. 25	Fn.	WII		+0.053		.....	I	3.9	2½
Apr. 2	Fn.	EII		+0.010		+0.33	I	...	3
5	Fn.	EII		+0.002		+0.23	I	3.9	1½
15	Fn.	EII		−0.014		+0.65	I	3.9	2
June 19	*Wy.*	*WII*		*+0.046*	*+0.07*	*+0.03*	*0*	...	*3½*
Mean	1914.90			+0.011		+0.36			
	1915.02								
Corr				−0.081		−0.32			

υ Ursæ Majoris s. p.

				h m s	° ′ ″			
			9	44	+59 27 44.44			
1911								
Sept. 6	R.	WII		.....	−2.6	0	...	2½
20	R.	WII		.....	−0.4	0	...	3½
Nov. 13	Hd.	EII		.....	−0.6	0	...	4
16	Hd.	EII		.....	+0.7	0	...	4
18	Hd.	EII		.....	−4.3	0	...	5
22	R.	EII		.....	−1.3	I	...	2
Dec. 1	Hd.	WII		.....	+0.8	0	...	4
4	R.	WII		.....	−0.1	0	...	5
5	R.	WII		.....	+2.9	0	...	5
7	R.	WII		.....	−1.3	0	...	..
1912								
Aug. 27	R.	WII		.....	+1.1	0	...	..
Nov. 18	Hd.	EII		.....	−2.0	0	...	4½
19	Hd.	EII		.....	−1.6	0	...	5
20	Hd.	EII		.....	−1.9	0	...	4
1913								
Nov. 5	Hd.	EI		.....	−1.8	0	...	5
6	Fn.	EI		.....	−1.4	0	...	4
7	R.	EI		.....	−0.3	0	...	..
10	Fn.	WI		.....	+0.9	0	...	5
11	R.	WI		.....	−0.3	0	...	..
12	Hd.	WI		.....	+2.1	0	...	4
17	Fn.	WI		.....	−1.4	0	...	4
21	R.	WI		.....	+0.6	0	...	..
22	Hd.	WI		.....	−0.4	0	...	4½
25	R.	EI		.....	−1.7	0	...	..
1914								
Nov. 4	Hd.	WI		.....	+0.2	0	...	4
23	Hd.	EI		.....	−1.3	0	...	4
1915								
Sept. 8	Hd.	WI		.....	−3.2	0	...	4
15	Hd.	EI		.....	−2.5	0	...	3½
Oct. 9	Fn.	WI		.....	+1.8	0	...	4½
12	Wy.	WI		.....	−3.2	0	...	5
21	Hd.	WI		.....	−1.1	0	...	4
23	Fn.	WI		.....	+2.1	0	...	4½

			s	″			
1915							
Oct. 25	Hd.	WI	-----	−0.4	0	---	4
27	Wy.	WI	-----	−0.7	0	---	5
28	Hd.	EI	-----	−1.2	0	---	4
29	Fn.	EI	-----	+0.3	0	---	5
Nov. 1	Fn.	EI	-----	+0.3	0	---	5
2	Wy.	EI	-----	+2.8	0	---	5
3	Hd.	EI	-----	−3.2	0	---	4
5	Wy.	EI	-----	−0.8	0	---	4
6	Hd.	EI	-----	−1.2	0	---	4
9	Hd.	WI	-----	+2.2	0	---	4
10	Fn.	WI	-----	−1.0	0	---	3½
1916							
Sept. 25	Wy.	EI	-----	−3.0	0	---	4
Oct. 6	Wy.	WI	-----	−1.8	0	---	4½
12	Hd.	WI	-----	+0.7	0	---	5
24	Hd.	WI	-----	−2.5	0	---	4
Nov. 3	Fn.	EI	-----	−4.5	0	---	3½
10	Fn.	EI	-----	−2.1	0	---	4
16	Wy.	WI	-----	−1.4	0	---	4½
24	Fn.	WI	-----	+1.5	0	---	4
1917							
Sept. 13	Hd.	EII	-----	−1.6	0	---	4
17	Hd.	EII	-----	−2.3	0	---	4½
18	Wy.	EII	-----	−1.0	0	---	4½
Oct. 2	Fn.	WII	-----	−0.8	0	---	4
4	Hd.	WII	-----	−4.5	0	---	4
15	Fn.	EII	-----	+0.7	0	---	5
16	Wy.	EII	-----	+0.8	0	---	4½
22	Hd.	EII	-----	+1.0	0	---	4
25	Hd.	EII	-----	+0.4	0	---	4
Nov. 20	Fn.	WII	-----	−0.7	0	---	3½
Mean	1915.07		-----	−0.75			
Corr			-----	+1.07			

6 Sextantis

			h m	s	°	′	″			
			9 46	41.968	−3	49	16.18			
1912										
Dec. 13	Fn.	EII		+0.020			−0.67	0	6.3	2½
21	R.	EII		+0.023			−0.02	0	7.0	2
22	R.	WII		+0.013			−0.45	0	6.0	2½
28	R.	WII		−0.031			−0.94	0	6.5	2
1913										
Dec. 12	Fn.	EI		+0.030			−0.75	0	6.5	3½
13	R.	EI		+0.031			−0.74	0	6.0	4
18	Hd.	WI		−0.002			−0.65	0	6.5	3
19	Fn.	WI		−0.015			−0.63	0	6.0	2½
Mean	1913.46			+0.009			−0.61			
Corr				−0.081			−0.16			

Bradley 1382

			h m	s	°	′	″			
1912										
Feb. 13	Hd.	EII	9 46	46.682	+24	49	17.33	0	6.0	2
14	R.	EII		46.664			17.31	0	5.5	1
23	Hd.	WII		46.642			17.44	0	5.7	3
28	R.	WII		46.649			17.29	0	5.5	2
1915										
Apr. 1	Fn.	EI		46.698			17.18	0	6.5	2½
6	Wy.	EI		46.674			16.55	0	5.5	2½
14	An.	WI		46.665			16.98	0	---	--
15	Hd.	WI		46.669			17.08	I	4.9	2
Mean	1913.70		9 46	46.668	+24	49	17.14			
Corr				−0.081			−0.24			

υ Hydræ

			h m	s	°	′	″			
1913										
Jan. 14	R.	WII	9 47	8.955	−14	25	27.68	I	4.4	1½
18	R.	EII		8.996			25.99	I	3.9	2½
19	R.	EII		8.976			26.69	I	4.4	2½
29	Fn.	WII		9.038			26.89	0	4.9	3
Dec. 8	Hd.	EI		8.979			27.34	I	4.4	3
11	Hd.	EI		8.956			27.70	I	4.4	3
1913										
Dec. 26	Fn.	WI		8.992			26.57	0	---	3
29	Hd.	WI		8.960			26.61	I	4.4	3
Mean	1913.51		9 47	8.982	−14	25	26.93			
Corr				−0.081			−0.12			

μ Leonis

			h m	s	°	′	″			
			9 47	38.770	+26	25	52.32			
1912										
Mar. 2	R.	WII		+0.077			−0.45	I	4.4	1
7	Fn.	WII		+0.082			−0.66	0	---	1½
9	R.	EII		+0.071			+0.89	I	4.4	2
18	Fn.	EII		+0.065			+0.13	I	3.7	2½
1915										
Apr. 7	An.	EI		+0.101			−0.38	I	4.9	2
8	Hd.	EI		+0.077			−0.57	I	3.4	2½
12	Hd.	WI		+0.057			+0.38	I	3.9	2
13	Fn.	WI		+0.080			+1.71	I	3.9	2½
Mean	1913.73			+0.076			+0.13			
Corr				−0.081			−0.24			

B. D.+61° 1151

			h m	s	°	′	″			
1912										
Mar. 22	Hd.	EII	9 48	29.94	+61	32	27.56	0	7.5	--
25	Fn.	WII		30.06			27.36	0	---	2
26	Hd.	WII		29.97			27.34	0	6.5	--
Apr. 6	R.	EII		29.99			27.31	0	---	4
1915										
Nov. 24	Wy.	EI		30.05			27.14	0	6.5	2½
27	Wy.	EI		30.02			27.33	0	6.5	2
Dec. 8	Wy.	WI		29.98			27.87	0	6.5	2½
9	Fn.	WI		30.00			27.75	0	6.5	2½
Mean	1914.08		9 48	30.001	+61	32	27.46			
Corr				−0.081			−0.32			

Groombridge 1586

			h m	s	°	′	″				
			9 50	21.489	+73	18	28.46				
1913											
Jan. 21	R.	EII			−0.06			+0.64	0	5.5	1
25	R.	EII			+0.07			+0.54	0	6.0	3½
Feb. 6	R.	WII			−0.01			+0.63	0	---	4
7	Fn.	WII			+0.01			+0.32	0	6.5	3½
1914											
Jan. 8	Hd.	EI			+0.12			+0.77	0	7.0	3
15	Hd.	EI			+0.09			+0.67	0	6.0	2
27	R.	WI			+0.02			+0.96	0	6.0	2½
28	Fn.	WI			0.00			+0.47	0	6.0	3½
1915											
Feb. 10	Hd.–An.	EI			----			+0.78	0	---	2 R.
17	Fn.–Wy.	EI			----			+0.44	0	---	2 R.
18	Hd.–An.	EI			----			+0.70	0	6.0	3
19	Fn.–Wy.	EI			----			+1.39	0	5.0	2½
20	An.–Hd.	WI			----			+1.09	0	---	2 R.
21	An.–Hd.	WI			----			+0.41	0	6.0	3
Mar. 1	Wy.–Fn.	WI			----			+0.70	0	6.0	3
9	Wy.–Fn.	WI			----			+1.10	0	---	3½ R.
1916											
Mar. 23	Hd.–Wy.	WI			----			+0.69	0	---	2 R.
24	Hd.–Wy.	WI			----			+0.72	0	---	3
31	Hd.–Wy.	EI			----			+1.00	0	---	3 R.
Apr. 10	Hd.–Wy.	EI			----			+0.40	0	4.9	2
15	Hd.–Fn.	EI			----			+0.76	0	---	2 R.
18	Hd.–Fn.	EI			----			+1.45	0	6.0	3
19	Hd.–Fn.	WI			----			+0.63	0	6.5	2
20	Hd.–Wy.	WI			----			+0.75	0	---	3 R.
Mean	1913.57				+0.030			+0.71			
	1914.64										
Corr					−0.081			−0.35			

Groombridge 1586 s. p.

			h m s	° ′ ″			
			9 50 21.488	+73 18 28.52			
1912							
Sept. 14	R.	WII	+0.01	+0.86	0	7.5	3
17	R.	WII	−0.08	−0.37	0	6.0	3
27	Hd.	EII	+0.09	−0.66	0	6.0	4
28	R.	EII	+0.16	+0.02	0	---	--
29	R.	EII	−0.08	+0.02	0	---	2½
1914							
Aug. 30	Wy.	WI	+0.12	−1.11	0	6.5	3½
Sept. 13	Wy.	EI	−0.08	−1.34	0	6.5	3½
14	Fn.	EI	−0.21	+0.08	0	6.0	3
28	Hd.	WI	+0.01	−0.03	0	6.0	3
Mean	1913.60		−0.007	−0.28			
Corr			−0.081	+0.55			

Paris 12190

			h m s	° ′ ″			
1913							
Feb. 8	R.	WII	9 50 37.502	−18 34 58.32	0	5.5	3
15	R.	WII	37.474	58.09	0	5.5	3
19	Fn.	EII	37.521	57.75	0	---	4
Mar. 5	Fn.	EII	37.468	58.43	0	5.5	3
1914							
Jan. 29	Wy.	WI	37.496	57.62	0	6.0	3½
31	Fn.	WI	37.533	57.47	0	6.0	3½
Feb. 7	Wy.	EI	37.522	[55.15]	0	---	3
9	Hd.	EI	37.537	58.39	0	5.5	3½
Mean	1913.62		9 50 37.507	−18 34 58.01			
	1913.55						
Corr			−0.081	−0.09			

Bradley 1391

			h m s	° ′ ″			
1912							
Mar. 31	Hd.	WII	9 51 14.891	+32 48 40.75	0	6.2	2
Apr. 3	R.	WII	14.859	40.61	0	7.5	1½
11	Fn.	EII	14.861	39.54	0	6.8	3
16	Hd.	EII	14.878	39.96	0	---	2
1915							
Nov. 29	Wy.	EI	14.861	40.44	0	6.5	3
30	Hd.	EI	14.854	40.42	0	---	3
Dec. 6	Hd.	WI	14.820	40.32	0	6.5	2
10	Hd.	WI	14.835	40.20	0	6.5	2
Mean	1914.10		9 51 14.857	+32 48 40.28			
Corr			−0.081	−0.26			

Weisse$_1$ IX 1052

			h m s	° ′ ″			
1913							
Mar. 6	Hd.	EII	9 51 39.709	−7 13 5.76	0	6.5	3
7	Fn.	EII	39.695	5.47	0	6.5	2½
17	Fn.	WII	39.698	5.62	0	7.3	3½
18	Hd.	WII	39.755	5.69	0	6.5	3
1914							
Feb. 2	Hd.	WI	39.777	5.82	0	6.5	3½
Mar. 4	Hd.	WI	39.762	6.21	0	7.0	3
23	Fn.	EI	39.768	6.18	0	7.0	2½
24	Wy.	EI	39.721	5.38	0	7.0	2½
Mean	1913.69		9 51 39.736	−7 13 5.77			
Corr			−0.081	−0.15			

19 Leonis Minoris

			h m s	° ′ ″			
			9 52 10.544	+41 29 4.84			
1913							
Mar. 11	Hd.	EII	+0.034	−0.17	0	5.8	2
12	Fn.	EII	+0.050	−0.01	0	5.6	2
20	R.	WII	+0.056	−1.22	0	5.0	2½
21	Fn.	WII	+0.001	−0.87	0	5.5	3
Dec. 8	Hd.	EI	+0.042	−0.88	0	5.5	3½
11	Hd.	EI	+0.019	−0.71	0	5.5	3
26	Fn.	WI	+0.031	+0.87	0	5.5	2
29	Hd.	WI	+0.056	−0.52	1	4.4	2
1916			s	″			
Feb. 28	Fn.	WI	0.000	----	0	---	2
Mar. 10	Fn.	WI	+0.028	----	0	5.5	2½
1917							
Apr. 10	Fn.	WI	+0.034	----	0	5.0	2½
16	Fn.	WI	−0.006	----	0	5.0	2
1918							
Mar. 28	Fn.	WII	+0.006	----	0	5.5	2
Mean	1914.91		+0.027	−0.44			
	1913.59						
Corr			−0.081	−0.27			

ν Leonis

			h m s	° ′ ″			
1912							
Dec. 13	Fn.	EII	9 53 23.062	+12 52 28.44	0	5.6	1½
19	R.	EII	23.028	28.73	0	---	5
21	R.	EII	22.981	27.83	0	5.5	1½
22	R.	WII	23.041	27.94	0	5.5	2½
28	R.	WII	22.997	28.44	0	5.5	1½
1913							
Dec. 12	Fn.	EI	23.004	27.76	0	5.0	3½
13	R.	EI	23.005	27.94	0	6.0	3
18	Hd.	WI	23.025	27.91	0	5.5	3
19	Fn.	WI	23.013	28.27	0	6.0	2
Mean	1913.41		9 53 23.017	+12 52 28.14			
Corr			−0.081	−0.22			

Groombridge 1594

			h m s	° ′ ″			
1913							
Feb. 13	R.	WII	9 53 40.433	+57 14 34.58	0	---	2
14	Fn.	WII	40.452	34.60	0	5.0	2
28	Fn.	EII	40.532	35.36	0	5.4	3
Mar. 3	Fn.	EII	40.552	34.59	0	---	3½
1914							
Mar. 12	Fn.	WI	40.514	34.84	0	5.0	2
13	Wy.	WI	40.517	34.84	0	6.0	1½
18	Hd.	EI	40.548	34.41	0	5.5	3
20	Wy.	EI	40.523	33.92	0	5.5	3
Mean	1913.67		9 53 40.509	+57 14 34.64			
Corr			−0.081	−0.31			

Carrington 1451

			h m s	° ′ ″			
1912							
Mar. 18	Fn.	EII	9 54 18.75	+84 21 14.01	0	6.5	2½
Apr. 8	Fn.	WII	19.39	13.57	0	6.6	2½
9	Hd.	WII	19.25	13.90	0	6.5	3½
11	Fn.	EII	18.69	14.07	0	6.7	4
1915							
Apr. 8	Hd.	EI	18.75	14.94	0	6.5	3
13	Fn.	WI	19.09	15.50	0	7.0	3
14	An.	WI	19.03	13.99	0	7.0	2
30	Wy.	EI	18.29	13.95	0	6.5	3
May 1	Hd.	EI	18.87	14.80	0	---	2
2	Hd.	EI	18.78	14.46	0	---	3
Mean	1914.08		9 54 18.889	+84 21 14.32			
Corr			−0.081	−0.39			

Carrington 1451 s. p.

			h m s	° ′ ″			
1912							
Sept. 12	R.	WII	9 54 19.07	+84 21 13.47	0	7.0	1
14	R.	WII	18.74	13.39	0	---	1
27	Hd.	EII	18.78	13.38	0	6.5	3
29	R.	EII	18.81	13.13	0	7.5	2
1914							
Aug. 4	Wy.	EI	17.04	12.89	0	---	3
6	Fn.	EI	17.87	12.97	0	7.0	3
17	Fn.	WI	18.80	12.05	0	7.5	3
20	Fn.	WI	18.51	13.02	0	7.0	3
Mean	1913.67		9 54 18.452	+84 21 13.04			
Corr			−0.081	+0.45			

Weisse$_2$ IX 1095

			h m s	° ′ ″			
1912							
Mar. 10	Fn.	EII	9 54 27.624	+21 45 4.58	0	7.0	3
13	Fn.	EII	27.597	5.06	0	7.0	3
25	Fn.	WII	27.585	5.16	0	6.9	2½
26	Hd.	WII	27.553	4.89	0	7.0	3
1915							
Nov. 24	Wy.	EI	27.577	5.20	0	7.0	2
27	Wy.	EI	27.536	4.45	0	6.5	2
Dec. 9	Fn.	WI	27.528	5.46	0	6.5	2½
21	Hd.	WI	27.537	5.31	0	6.5	2
Mean	1914.07		9 54 27.567	+21 45 5.01			
Corr			−0.081	−0.23			

η Antliæ

			h m s	° ′ ″			
1912							
Apr. 10	R.	WII	9 55 0.511	−35 27 36.08	0	---	5
19	Hd.	EII	0.536	35.42	0	6.0	4
20	Fn.	WII	0.442	35.69	0	---	4
May 1	R.	EII	0.570	35.17	0	---	3½
1915							
Apr. 6	Wy.	EI	0.422	36.26	0	6.5	3½
7	An.	EI	0.455	36.61	0	6.0	3½
21	An.	WI	0.506	36.71	0	---	3
24	An.	WI	0.481	36.41	0	6.5	3
Mean	1913.79		9 55 0.490	−35 27 36.04			
Corr			−0.081	+0.14			

Piazzi IX 223

			h m s	° ′ ″			
1913							
Jan. 14	R.	WII	9 55 3.037	+3 48 54.96	0	6.5	1
19	R.	EII	3.048	55.75	0	7.0	2
21	R.	EII	3.024	55.87	0	7.0	1½
29	Fn.	WII	3.072	54.52	0	6.8	2
1914							
Jan. 29	Wy.	WI	3.096	54.81	0	6.5	3½
31	Fn.	WI	3.027	55.88	0	7.0	3
Feb. 9	Hd.	EI	3.045	54.74	0	6.5	3
Mar. 23	Fn.	EI	3.043	55.12	0	7.0	2½
Mean	1913.59		9 55 3.049	+3 48 55.21			
Corr			−0.081	−0.19			

π Leonis

			h m s	° ′ ″				
			9 55 27.503	+8 28 34.93				
1913								
Jan. 25	R.	EII	+0.003	−0.13	0	5.0	3½	
27	Fn.	EII	+0.053	−0.46	0	---	2	
Feb. 6	R.	WII	+0.048	−0.08	0	---	3½	
7	Fn.	WII	+0.032	+0.13	0	5.5	3½	
Dec. 30	Fn.	WI	+0.018	−1.12	0	---	2	
1914								
Jan. 8	Hd.	EI	+0.030	−0.37	0	---	3	
15	Hd.	EI	+0.040	+0.10	I	4.4	3	
27	R.	WI	+0.063	−0.07	I	4.9	3	
28	Fn.	WI	+0.062	−0.11	0	---	3	
1915								
Feb. 10	Hd.–An.	EI	-----	−0.16	I	4.9	2	
17	Fn.–Wy.	EI	-----	+0.10	0	5.0	2	
18	Hd.–An.	EI	-----	−0.54	0	---	3	R.
19	Fn.–Wy.	EI	-----	−0.62	0	---	2½	R.
20	An.–Hd.	WI	-----	−0.14	I	4.4	2½	
21	An.–Hd.	WI	-----	−1.15	0	---	3	R.
Mar. 1	Wy.–Fn.	WI	-----	−0.82	0	---	3	R.
8	Wy.–Fn.	WI	-----	−0.95	I	3.9	2½	
9	Wy.–Fn.	WI	-----	−0.64	I	4.9	3½	
1916								
Mar. 23	Hd.–Wy.	WI	-----	−0.08	0	5.5	3	
24	Hd.–Wy.	WI	-----	−0.97	0	---	3	R.
31	Hd.–Wy.	EI	-----	+0.07	I	4.9	2	
Apr. 10	Hd.–Wy.	EI	-----	−0.02	I	---	2	R.
15	Hd.–Fn.	EI	-----	+0.11	I	3.9	2	
1916								
Apr. 18	Hd.–Fn.	EI	-----	−0.67	0	---	3	R.
19	Hd.–Fn.	WI	-----	−0.33	I	---	2½	R.
20	Hd.–Wy.	WI	-----	−0.06	0	---	3	
Mean	1913.62 1914.63		-----	+0.039		−0.21		
Corr				−0.081		−0.20		

Bradley 1397

			h m s	° ′ ″			
1912							
Mar. 31	Hd.	WII	9 55 49.478	+32 21 59.20	0	5.5	2
Apr. 3	R.	WII	49.523	59.43	0	5.5	2
6	R.	EII	49.431	58.85	0	---	3½
16	Hd.	EII	49.459	58.44	0	---	2
1915							
Apr. 12	Hd.	WI	49.331	-----	0	6.0	2½
Nov. 29	Wy.	EI	49.395	57.33	0	5.5	3
30	Hd.	EI	49.374	57.80	0	---	2
Dec. 6	Hd.	WI	49.337	57.20	0	6.0	2½
10	Hd.	WI	49.308	57.11	0	6.0	2
1916							
Feb. 28	Fn.	WI	49.350	-----	0	---	2
Mar. 10	Fn.	WI	49.354	-----	0	6.0	2½
1917							
Apr. 10	Fn.	WI	49.281	-----	0	5.5	2½
16	Fn.	WI	49.299	-----	0	5.5	2
1918							
Mar. 28	Fn.	WII	49.262	-----	0	5.5	2
Mean	1915.23 1914.09		9 55 49.370	+32 21 58.17			
Corr			−0.081	−0.25			

Weisse$_1$ IX 1192

			h m s	° ′ ″			
1913							
Feb. 15	R.	WII	9 58 13.489	−0 37 52.29	0	7.0	2½
18	Hd.	EII	13.436	52.02	0	6.5	2
Mar. 5	Fn.	EII	13.491	52.55	0	7.0	2½
17	Fn.	WII	13.458	52.01	0	7.0	3
Dec. 8	Hd.	EI	13.496	52.16	0	6.5	3
11	Hd.	EI	13.462	52.82	0	7.0	3
18	Hd.	WI	13.468	52.20	0	7.0	2
19	Fn.	WI	13.514	52.77	0	7.0	2
Mean	1913.56		9 58 13.477	−0 37 52.35			
Corr			−0.081	−0.18			

193 G. Hydræ

			h m s	° ′ ″			
1912							
Feb. 14	R.	EII	10 0 11.581	−23 50 58.82	0	6.0	2
23	Hd.	WII	11.488	58.96	0	6.0	4
28	R.	WII	11.462	59.26	0	6.0	3½
Mar. 10	Fn.	EII	11.510	60.15	0	6.0	4
1915							
Mar. 29	Fn.	EI	11.460	56.94	0	6.5	4
30	Wy.	EI	11.444	58.71	0	7.0	3½
Apr. 12	Hd.	WI	11.519	57.85	0	6.2	3
13	Fn.	WI	11.496	58.02	0	6.0	3½
Mean	1913.71		10 0 11.495	−23 50 58.59			
Corr			−0.081	−0.04			

Lacaille 4132

			h m s	° ′ ″			
1913							
Jan. 14	R.	WII	10 0 43.861	−27 45 8.25	0	7.5	1½
19	R.	EII	43.899	6.74	0	7.5	2½
21	R.	EII	43.887	6.84	0	7.5	2
Feb. 8	R.	WII	-----	7.18	0	---	--
14	Fn.	WII	43.888	9.01	0	8.5	3½
Dec. 29	Hd.	WI	43.876	7.02	0	7.5	4
1914							
Jan. 15	Hd.	EI	43.873	6.79	0	8.5	3
29	Wy.	WI	43.779	8.25	0	8.0	4

1914			h m s	° ′ ″				
Jan. 31	Fn.	WI	43.912		6.73	0	7.5	3½
Mar. 23	Fn.	EI	43.928		7.36	0	7.5	3
Mean	1913.63		10 0 43.878	−27 45	7.42			
	1913.58							
Corr			−0.081		0.00			

v^2 Hydræ

1912			h m s	° ′ ″				
Mar. 2	R.	WII	10 0 44.531	−12 37	40.59	0	5.5	1
7	Fn.	WII	44.559		40.24	0	5.2	2½
13	Fn.	EII	44.528		39.68	0	5.2	3
16	Fn.	EII	44.511		40.87	0	5.2	3
1915								
Mar. 31	An.	EI	44.514		40.44	I	4.4	3½
Apr. 1	Fn.	EI	44.515		40.51	0	5.5	2½
17	An.	WI	44.552		41.00	I	5.4	3
19	Fn.	WI	44.505		40.09	0	---	3
Mean	1913.73		10 0 44.527	−12 37	40.43			
Corr			−0.081		−0.12			

Radcliffe 1845, 2443

1912			h m s	° ′ ″				
Mar. 26	Hd.	WII	10 1 32.702	+45 29	55.52	0	7.5	--
Apr. 8	Fn.	WII	32.723		55.91	0	7.3	1½
11	Fn.	EII	32.718		54.70	0	7.7	3
19	Hd.	EII	32.753		55.40	0	7.2	2
1915								
Apr. 6	Wy.	EI	32.732		55.37	0	7.5	2
7	An.	EI	32.759		54.69	0	7.5	2
14	An.	WI	32.692		55.11	0	7.5	1
15	Hd.	WI	32.671		56.08	0	7.5	3
Mean	1913.77		10 1 32.719	+45 29	55.35			
Corr			−0.081		−0.28			

Bradley 1404

1913			h m s	° ′ ″				
Jan. 22	Fn.	EII	10 2 5.101	+6 3	1.43	0	7.0	3
25	R.	EII	5.103		2.11	0	6.0	3
Feb. 6	R.	WII	5.121		1.71	0	---	4
7	Fn.	WII	5.134		2.68	0	7.0	3½
1914								
Feb. 2	Hd.	WI	5.139		1.69	0	6.5	3
7	Wy.	EI	5.131		2.25	0	7.0	2½
9	Hd.	EI	5.139		1.67	0	6.5	3
Mar. 4	Hd.	WI	5.109		1.65	0	6.5	2
Mean	1913.60		10 2 5.122	+6 3	1.90			
Corr			−0.081		−0.19			

η Leonis

			h m s	° ′ ″				
			10 2 25.578	+17 12	6.87			
1913								
Mar. 11	Hd.	EII	+0.138		−0.08	I	3.9	2
12	Fn.	EII	+0.111		−0.11	0	---	2
18	Hd.	WII	+0.101		−0.31	I	2.9	3
20	R.	WII	+0.124		−0.47	I	3.4	2
1914								
Mar. 12	Fn.	WI	+0.129		+0.42	I	3.4	2
13	Wy.	WI	+0.120		−0.25	I	3.9	2
18	Hd.	EI	+0.127		+0.40	I	3.4	3
20	Wy.	EI	+0.080		−0.10	I	3.9	3
1915								
Feb. 10	Hd.–An.	EI	-----		−0.28	I	3.4	2
17	Fn.–Wy.	EI	-----		−0.10	I	3.4	2
18	Hd.–An.	EI	-----		−1.18	I	---	3 R.
19	Fn.–Wy.	EI	-----		−1.40	I	---	2½ R.
20	An.–Hd.	WI	-----		−0.35	II	---	2
21	An.–Hd.	WI	-----		−1.31	I	---	3 R.
Mar. 1	Wy.–Fn.	WI	-----		−0.91	I	---	3 R.
8	Wy.–Fn.	WI	-----		−0.78	I	3.4	2½
9	Wy.–Fn.	WI	-----		−0.46	I	3.4	3

1916			″				
Mar. 23	Hd.–Wy.	WI	-----	−1.33	---	2	R.
24	Hd.–Wy.	WI	-----	+0.18	I ---	3	
31	Hd.–Wy.	EI	-----	−0.94	I ---	2	R.
Apr. 10	Hd.–Wy.	EI	-----	−0.05	I 2.9	2	
15	Hd.–Fn.	EI	-----	−1.46	I ---	2	R.
18	Hd.–Fn.	EI	-----	−0.01	I 4.4	3	
19	Hd.–Fn.	WI	-----	−0.81	I 3.9	2	
20	Hd.–Wy.	WI	-----	−0.72	I ---	3	R.
Mean	1913.70		″ +0.116	″ −0.19			
	1914.74						
Corr			−0.081	−0.22			

α Leonis

			h m s	° ′ ″				
			10 3 34.753	+12 24	26.65			
1911			″	″	″			
Sept. 11	*Hd.*	*WII*	*+0.036*	*−1.22*	*−1.18*	*0*	---	--
13	*Fn.*	*WII*	-----	*+0.55*	*+0.62*	*0*	---	*4*
Oct. 12	*Fn.*	*WII*	*+0.012*	*+0.72*	*+0.76*	*0*	---	--
18	*Hd.*	*WII*	-----	*−0.15*	*−0.15*	*0*	---	*3*
23	*Fn.*	*WII*	*−0.025*	*+0.73*	*+0.75*	*I*	---	*3*
24	*R.*	*WII*	*+0.031*	*−0.85*	*−0.84*	*0*	---	--
25	*R.*	*WII*	*+0.022*	*−0.18*	*−0.13*	*0*	---	--
26	*R.*	*WII*	-----	*+0.44*	*+0.49*	*0*	---	--
29	*R.*	*EII*	*+0.068*	*+0.20*	*+0.21*	*0*	---	--
Nov. 2	*R.*	*EII*	*+0.021*	*−0.68*	*−0.68*	*0*	---	--
10	*Fn.*	*EII*	*+0.022*	*−0.63*	*−0.61*	*I*	---	--
12	*Hd.*	*EII*	*+0.035*	*−0.16*	*−0.08*	*I*	---	*4*
15	*Hd.*	*EII*	*+0.022*	*−0.08*	*−0.08*	*II*	---	*2½*
1912								
Mar. 9	R.	EII	+0.015		----	II	2.6	1
30	R.	WII	+0.041		----	II	---	1
31	Hd.	WII	+0.046		0.000	II	1.5	--
Apr. 2	Hd.	WII	+0.036		+0.46	II	1.6	--
3	R.	WII	+0.053		----	II	2.1	2
5	Hd.	EII	+0.041		−0.59	0	---	3
6	R.	EII	+0.003		+0.12	II	---	4
9	Hd.	WII	+0.023		----	II	1.1	3
10	R.	WII	+0.013		----	II	1.6	3
16	Hd.	EII	+0.017		----	II	---	2
20	Fn.	WII	+0.023		+0.34	II	1.7	2
23	Hd.	WII	+0.056		----	II	1.6	2
25	Fn.	EII	+0.013		−0.20	0	---	2
27	R.	EII	0.000		----	II	1.1	4
May 1	R.	EII	+0.027		−0.10	II	1.1	1
Sept. 19	*Hd.*	*WII*	*+0.061*	*−0.49*	*−0.31*	*0*	---	*4*
27	*R.*	*EII*	*+0.090*	*−0.11*	*−0.04*	*0*	---	*4*
29	*R.*	*EII*	*+0.080*	*−0.12*	*−0.06*	*0*	---	*3½*
30	*Hd.*	*EII*	*+0.028*	*−0.66*	*−0.67*	*0*	---	*3*
Oct. 1	*Hd.*	*EII*	*+0.063*	*+0.49*	*+0.54*	*0*	---	*3*
2	*Hd.*	*EII*	*−0.003*	*−0.27*	*−0.29*	*0*	---	*3*
3	*Hd.*	*EII*	*−0.007*	*−0.66*	*−0.62*	*0*	---	*3*
4	*Hd.*	*EII*	*+0.067*	*−0.73*	*−0.73*	*0*	---	*2*
6	*Hd.*	*WII*	*+0.061*	*+0.33*	*+0.33*	*0*	---	*3½*
7	*Hd.*	*WII*	*+0.042*	*−0.60*	*−0.51*	*0*	---	*4*
9	*Hd.*	*WII*	*−0.089*	*−0.12*	*−0.08*	*0*	---	*3*
10	*Hd.*	*WII*	*−0.003*	*+0.14*	*+0.18*	*0*	---	*3*
14	*R.*	*WII*	*+0.024*	*−0.05*	*−0.07*	*0*	---	--
16	*R.*	*WII*	-----	*+0.07*	*+0.07*	*I*	---	--
17	*Fn.*	*WII*	*+0.053*	*−0.16*	*−0.10*	*0*	---	*2½*
20	*Fn.*	*EII*	-----	*−0.50*	*−0.50*	*0*	---	*3*
25	*R.*	*EII*	*+0.093*	*−0.11*	*−0.13*	*I*	---	—
28	*R.*	*EII*	*+0.058*	*−0.26*	*−0.23*	*II*	---	--
29	*Fn.*	*EII*	*−0.001*	*−0.42*	*−0.36*	*0*	---	*4*
30	*Hd.*	*EII*	*−0.011*	*−0.44*	*−0.42*	*I*	---	*2*
Dec. 12	R.	EII	+0.024		−0.03	II	2.1	2½
13	Fn.	EII	+0.015		+1.18	II	1.4	1½
19	R.	EII	+0.049		+1.83	II	2.1	3½
22	R.	WII	+0.033		+0.40	II	1.6	3
28	R.	WII	−0.011		+0.55	II	2.1	2
1913								
Jan. 27	Fn.	EII	+0.037		----	I	---	2½
30	R.	WII	+0.034		----	II	1.6	3½
Feb. 8	R.	WII	+0.058		+0.11	II	2.1	2
15	R.	WII	+0.027		----	II	2.1	2
28	Fn.	EII	+0.027		+0.42	II	2.1	3

				s	"	"			
1913									
Mar.	3	Fn.	EII	+0.040		+0.16	I	---	3
	7	Fn.	EII	+0.066		−0.27	II	1.3	1½
	17	Fn.	WII	+0.031		+0.52	II	1.1	2½
	29	Hd.	EII	+0.034		−0.33	II	1.6	2
	31	Fn.	EII	+0.015		+0.35	II	1.7	2½
Apr.	5	Hd.	WII	+0.032		+1.10	II	1.1	3
	8	Hd.	WII	+0.013		+0.30	II	---	2½
	16	Hd.	WII	+0.056		+0.69	II	1.3	2
	21	Hd.	EII	+0.049		+0.22	II	1.1	2½
Dec.	30	Fn.	WI	+0.022		−0.03	I	---	2
1914									
Jan.	27	R.	WI	+0.047		----	II	2.6	2½
	28	Fn.	WI	+0.057		----	I	---	3
Feb.	27	Wy.	EI	+0.019		−0.01	I	1.9	2½
Mar.	3	Wy.	WI	+0.021		+0.62	II	2.1	3
	14	Hd.	WI	+0.032		+0.32	II	2.6	3
	24	Wy.	EI	+0.001		+0.09	II	1.6	2
	26	Fn.	EI	+0.032		----	II	1.1	2
Apr.	3	Wy.	WI	+0.035		----	II	1.6	2
	4	Hd.	WI	+0.042		+0.17	0	---	3
	5	Hd.	WI	+0.031		+0.55	II	1.6	2
	6	Fn.	WI	+0.020		0.00	II	1.6	2
	9	Fn.	WI	+0.047		−0.04	II	1.6	2
	10	Wy.	WI	+0.054		−0.52	II	---	2
	11	Hd.	EI	+0.054		----	I	---	2
	13	Fn.	EI	+0.041		+0.78	II	1.6	2
	17	Wy.	EI	−0.006		+0.04	II	1.6	2½
	18	Hd.	EI	+0.037		+0.19	I	---	2
	20	Wy.	EI	+0.056		----	I	---	3
	21	Hd.	EI	+0.020		+0.63	II	2.1	2
	23	Wy.	EI	+0.018		+0.58	II	1.6	2½
	26	Hd.	EI	+0.026		−0.13	II	1.6	3
May	1	Hd.	WI	-----		+0.46	II	2.6	2
	2	Fn.	WI	[+0.142][1]		−0.42	II	1.6	2
Sept.	*1*	*Wy.*	*WI*	*+0.028*	*−1.72*	*−1.62*	*0*	---	*3½*
	3	*Fn.*	*WI*	*+0.061*	----	----	*0*	---	*3½*
	8	*Fn.*	*EI*	*−0.017*	----	----	*0*	---	*3½*
	9	*An.*	*EI*	*+0.121*	*−0.12*	*0.00*	*0*	---	--
	14	*An.*	*EI*	*+0.083*	*−0.86*	*−0.78*	*0*	---	*3½*
	17	*An.*	*EI*	*+0.013*	*−0.69*	*−0.63*	*0*	---	*3½*
	20	*Hd.*	*EI*	*+0.062*	*−0.97*	*−0.83*	*0*	---	*3½*
	21	*Wy.*	*EI*	*+0.044*	*+0.11*	*+0.21*	*0*	---	*3½*
	22	*An.*	*EI*	*+0.045*	*−0.33*	*−0.22*	*0*	---	*4*
	23	*Hd.*	*EI*	-----	*+0.04*	*+0.13*	*0*	---	*3*
	25	*An.*	*EI*	*+0.026*	*−0.62*	*−0.58*	*I*	---	*3½*
	27	*Hd.*	*WI*	*+0.038*	*−0.68*	*−0.60*	*0*	---	*3*
	28	*Wy.*	*WI*	*+0.005*	*−0.69*	*−0.55*	*0*	---	*4*
	29	*An.*	*WI*	*+0.054*	*+0.10*	*+0.08*	*0*	---	*4*
	30	*Hd.*	*WI*	*+0.111*	*−1.57*	*−1.52*	*0*	---	*3½*
Oct.	*1*	*Wy.*	*WI*	*+0.037*	*−0.69*	*−0.64*	*0*	---	*3½*
	11	*Hd.*	*WI*	*+0.071*	*−0.48*	*−0.46*	*I*	---	*3*
	12	*Wy.*	*WI*	-----	*−0.09*	*−0.05*	*0*	---	*3½*
	18	*Hd.*	*EI*	*+0.072*	*+0.30*	*+0.31*	*I*	---	*3*
	19	*Wy.*	*EI*	-----	*+0.61*	*+0.63*	*0*	---	*3*
	20	*An.*	*EI*	*+0.009*	*+0.27*	*+0.34*	*I*	---	*3½*
	21	*Hd.*	*EI*	*+0.069*	*+0.55*	*+0.56*	*I*	---	*3*
	27	*An.*	*EI*	*+0.057*	*+0.31*	*+0.24*	*I*	---	*3½*
	28	*Fn.*	*EI*	-----	*−0.57*	*−0.54*	*I*	---	*3*
Nov.	*12*	*Wy.*	*WI*	*+0.046*	----	----	*I*	---	*3½*
	13	*Hd.*	*WI*	*+0.047*	*−0.24*	*−0.26*	*II*	---	*2*
	22	Hd.	EI	+0.040		----	II	2.1	2½
	25	Fn.	EI	+0.056		----	I	---	4
1915									
Apr.	8	Hd.	EI	+0.052		----	II	1.6	2
	10	An.	EI	+0.073		----	II	---	--
	21	An.	WI	+0.015		−0.37	II	---	2
	24	An.	WI	+0.035		+0.58	II	1.6	2
	30	Wy.	EI	+0.038		−0.02	II	1.6	2½
May	2	Hd.	EI	+0.033		----	II	---	2½
	5	Hd.	EI	+0.033		+0.62	II	1.6	3
Sept.	*8*	*Wy.*	*WI*	*+0.031*	*−0.63*	*−0.48*	*0*	---	*4*
	9	*Hd.*	*WI*	*+0.031*	*−0.99*	*−0.88*	*0*	---	*3*
	10	*Wy.*	*EI*	-----	*+0.10*	*+0.17*	*0*	---	*3½*
	12	*Hd.*	*EI*	*+0.042*	*−0.63*	*−0.52*	*0*	---	*3*
	13	*Wy.*	*EI*	*+0.093*	*−0.40*	*−0.26*	*0*	---	*3½*
	14	*Hd.*	*EI*	*+0.045*	*+0.04*	*+0.12*	*0*	---	*3½*
	16	*Hd.*	*EI*	-----	*−0.65*	*−0.52*	*0*	---	*3*

				s	"	"			
1915									
Sept.	*21*	*Hd.*	*EI*	*+0.059*	*−0.31*	*−0.22*	*0*	---	*3½*
	22	*Hd.*	*EI*	*+0.044*	*−0.06*	*+0.05*	*0*	---	*3*
	23	*Wy.*	*EI*	*+0.038*	*+0.05*	*+0.14*	*0*	---	*3½*
	26	*Hd.*	*EI*	*+0.003*	*−0.47*	*−0.42*	*0*	---	*3*
	27	*Fn.*	*EI*	*−0.030*	*−0.02*	*+0.03*	*0*	---	*4*
Oct.	*7*	*Hd.*	*WI*	*+0.026*	*−0.33*	*−0.31*	*0*	---	*3½*
	8	*Fn.*	*WI*	*+0.010*	*+0.16*	*+0.19*	*0*	---	*3½*
	10	*Fn.*	*WI*	*+0.015*	*+0.24*	*+0.32*	*0*	---	*3½*
	22	*Fn.*	*WI*	*+0.072*	*−0.49*	*−0.49*	*0*	---	*3½*
	23	*Hd.*	*WI*	*+0.015*	*−0.45*	*−0.45*	*I*	---	*2*
	25	*Fn.*	*WI*	-----	*−0.28*	*−0.28*	*0*	---	*3*
	29	*Wy.*	*EI*	*+0.034*	*−0.21*	*−0.26*	*I*	---	*3*
Nov.	*1*	*Wy.*	*EI*	*+0.009*	*+0.32*	*+0.33*	*0*	---	*4*
	15	Wy.	WI	+0.084		----	II	1.1	2½
	24	Wy.	EI	+0.044		+0.46	II	1.6	2½
	27	Wy.	EI	+0.037		+0.81	II	1.1	2½
	29	Wy.	EI	+0.046		−0.09	II	2.1	3
	30	Hd.	EI	+0.027		+0.86	I	---	3
Dec.	2	Hd.	EI	+0.052		+0.49	II	1.6	2
	4	Fn.	EI	+0.029		+0.46	I	1.9	2½
	6	Hd.	WI	+0.035		−0.99	II	2.6	2
	8	Wy.	WI	+0.007		−0.19	II	2.1	2½
	9	Fn.	WI	+0.028		−0.88	II	1.6	2½
	10	Hd.	WI	+0.023		−0.17	II	1.6	2
	21	Hd.	WI	+0.033		−0.21	II	1.6	2
	22	Fn.	WI	+0.041		+0.07	II	2.1	3
1916									
Jan.	8	Fn.	EI	+0.063		−0.18	II	2.1	3
	14	Hd.	EI	+0.044		+0.56	II	1.6	2
	20	Wy.	EI	+0.031		+0.20	II	2.1	3
	23	Fn.	EI	+0.030		+0.46	I	---	2
	25	Hd.	EI	+0.043		−0.24	II	2.6	2½
Feb.	3	Fn.	EI	−0.003		−0.44	II	2.1	2
	7	Fn.	EI	+0.052		+0.31	II	1.6	2½
	9	Hd.	WI	+0.029		+0.06	II	1.6	3
	11	Fn.	WI	+0.059		+0.52	I	---	3½
	15	Hd.	WI	+0.019		−0.30	I	---	3
	28	Fn.	WI	+0.046		----	I	---	2
	29	Hd.	WI	+0.028		+0.19	II	1.1	2½
Mar.	3	Hd.	WI	+0.037		−0.10	I	---	3
	4	Wy.	WI	+0.016		+0.24	II	1.6	3½
	5	Fn.	WI	+0.009		+0.59	0	---	3
	9	Fn.	WI	+0.032		−1.41	I	1.9	3
	10	Fn.	WI	+0.046		----	I	1.4	2½
	11	Wy.	WI	+0.022		−0.74	II	1.6	2
June	*22*	*Fn.*	*WI*	*+0.026*	*−1.04*	*−0.97*	*0*	---	*4*
	29	*Hd.*	*WI*	*−0.045*	*−1.53*	*−1.43*	*0*	---	*3½*
July	*7*	*Fn.*	*EI*	*+0.018*	*−1.32*	*−1.27*	*0*	---	*3½*
Sept.	*7*	*Wy.*	*WI*	*+0.060*	----	----	*0*	---	*3½*
	10	*Hd.*	*WI*	*+0.040*	*−0.50*	*−0.36*	*0*	---	*3½*
	18	*Hd.*	*EI*	*+0.004*	*−0.52*	*−0.47*	*0*	---	*3*
	21	*Hd.*	*EI*	*+0.093*	*−1.06*	*−0.98*	*0*	---	*3½*
Oct.	*1*	*Wy.*	*WI*	*+0.025*	*−0.24*	*−0.21*	*0*	---	*3½*
	25	*Wy.*	*EI*	*+0.018*	*+0.12*	*+0.13*	*I*	---	*3*
Nov.	*1*	*Hd.*	*EI*	*−0.118*	*+0.62*	*+0.71*	*I*	---	*3*
	2	*Fn.*	*EI*	*+0.041*	*+0.11*	*+0.12*	*0*	---	*2½*
1917									
Apr.	10	Fn.	WI	+0.066		−0.26	II	2.6	2½
	16	Fn.	WI	+0.056		−0.25	II	2.1	2½
	30	Hd.	EI	+0.018		+0.50	II	2.6	3
May	1	Fn.	EI	+0.018		−0.87	II	2.1	3
	3	Hd.	EI	+0.037		+0.11	II	2.1	2
	11	*Wy.*	*WI*	*−0.016*	*−0.44*	*−0.39*	*I*	---	*3*
	14	*Wy.*	*WI*	*+0.016*	*+0.26*	*+0.23*	*I*	---	*3*
	15	*Hd.*	*WI*	*+0.051*	*−0.35*	*−0.37*	*I*	---	*2*
	18	*Hd.*	*WI*	*+0.065*	*−0.15*	*−0.08*	*I*	---	*2½*
June	*1*	*Wy.*	*WI*	-----	*+0.17*	*+0.12*	*I*	---	*3½*
	25	*Wy.*	*WII*	*−0.043*	*−1.17*	*−1.12*	*0*	---	*3½*
July	*2*	*Hd.*	*EII*	-----	*−0.63*	*−0.61*	*0*	---	*3*
	31	*Fn.*	*EII*	*+0.054*	*−0.14*	*−0.03*	*0*	---	*3½*
Aug.	*6*	*Hd.*	*WII*	*+0.030*	*−0.13*	*−0.07*	*0*	---	*3½*
Sept.	*12*	*Hd.*	*EII*	*+0.027*	*−0.02*	*+0.10*	*0*	---	*3½*
	16	*Hd.*	*EII*	*+0.030*	*−0.31*	*−0.21*	*0*	---	*3½*
	17	*Wy.*	*EII*	*+0.034*	*+0.78*	*+0.90*	*0*	---	*3½*
	19	*Hd.*	*WII*	*+0.039*	*−0.61*	*−0.56*	*0*	---	*3*
	30	*Hd.*	*WII*	*+0.004*	*−0.27*	*−0.23*	*0*	---	*3*
Oct.	*1*	*Fn.*	*WII*	*+0.040*	*+0.71*	*+0.77*	*0*	---	*3½*

[1] Transit observed over one group only.

				s	″	″			
1917									
Oct.	*3*	*Hd.*	*WII*	*+0.059*	*−0.72*	*−0.68*	*0*	---	*3½*
	4	*Fn.*	*WII*	*+0.009*	*+0.74*	*+0.83*	*0*	---	*3½*
	7	*Hd.*	*EII*	-----	*−0.05*	*−0.01*	*0*	---	*3*
	15	*Wy.*	*EII*	*+0.019*	*−0.31*	*−0.30*	*0*	---	*4*
	21	*Hd.*	*EII*	*+0.003*	*+0.20*	*+0.20*	*0*	---	*3½*
	25	*Fn.*	*EII*	*−0.015*	*−0.34*	*−0.37*	*0*	---	*3½*
Nov.	*1*	*Fn.*	*EII*	*+0.028*	*+0.20*	*+0.22*	*0*	---	*3*
1918									
Mar.	25	Fn.	WII	+0.047		−0.36	II	2.1	2½
	28	Fn.	WII	+0.051		−1.35	II	1.6	2
Apr.	2	Fn.	EII	+0.045		−0.47	I	---	3
	5	Fn.	EII	+0.017		−0.07	I	1.4	2
	15	Fn.	EII	+0.036		+1.34	I	1.9	2
May	2	Fn.	EII	+0.038		+0.54	I	---	2½
	8	*Fn.*	*EII*	*+0.049*	*+0.10*	*+0.11*	*I*	---	*2*
June	*19*	*Wy.*	*WII*	*−0.035*	*−0.58*	*−0.54*	*I*	---	*3½*
Mean		1914.74		+0.034		+0.13			
		1914.99							
Corr				−0.081		−0.21			

B. D.+39° 2318

				h m	s	°	′	″			
1917											
Mar.	30	Fn.	WI	10 3	-----	+38	52	19.95	0	7.0	2½
Apr.	9	Hd.	WI		-----			19.97	0	7.5	2
	20	Wy.	EI		-----			19.45	0	7.5	3
	23	Wy.	EI		-----			20.50	0	7.5	2½
Mean		1917.28		10 3	-----	+38	52	19.97			
Corr					-----			−0.27			

Bradley 1408

				h m	s	°	′	″			
1913											
Mar.	21	Fn.	WII	10 4	12.145	+18	58	23.25	0	7.0	3½
	22	Hd.	WII		12.173			24.03	0	7.0	2
	24	Fn.	EII		12.147			23.51	0	7.5	3½
	28	Fn.	EII		12.167			23.60	0	6.5	2
Dec.	8	Hd.	EI		12.172			23.08	0	6.5	3
	11	Hd.	EI		12.107			22.29	0	7.0	3
	18	Hd.	WI		12.144			23.48	0	7.0	2
	19	Fn.	WI		12.158			23.66	0	7.0	2
Mean		1913.59		10 4	12.152	+18	58	23.36			
Corr					−0.081			−0.23			

Piazzi IX 254

				h m	s	°	′	″			
1913											
Feb.	14	Fn.	WII	10 5	33.690	+41	6	14.90	0	6.3	2
	15	R.	WII		33.679			15.01	0	6.5	2
	18	Hd.	EII		33.690			15.72	0	6.0	1
	19	Fn.	EII		33.760			15.73	0	6.7	2½
Dec.	12	Fn.	EI		33.593			16.19	0	6.5	3½
	13	R.	EI		33.680			15.54	0	6.5	3½
	26	Fn.	WI		33.683			15.76	0	6.0	2
	29	Hd.	WI		33.705			15.85	0	6.5	2½
Mean		1913.55		10 5	33.685	+41	6	15.59			
Corr					−0.081			−0.27			

Cape 1850, 1834

				h m	s	°	′	″			
1912											
Feb.	14	R.	EII	10 5	42.687	−12	22	15.28	0	6.0	2½
	23	Hd.	WII		42.644			14.75	0	5.7	--
	28	R.	WII		42.610			15.83	0	---	2½
Mar.	9	R.	EII		42.641			14.04	0	6.0	2½
1915											
Apr.	8	Hd.	EI		42.691			15.98	0	5.5	3
	12	Hd.	WI		42.670			14.83	0	6.0	3
	13	Fn.	WI		42.641			14.59	0	5.5	2½
	30	Wy.	EI		42.631			14.69	0	6.0	3
May	2	Hd.	EI		42.627			15.47	0	---	3
Mean		1913.90		10 5	42.649	−12	22	15.05			
Corr					−0.081			−0.13			

Groombridge 1619

				h m	s	°	′	″			
1912											
Mar.	16	Fn.	EII	10 5	53.037	+37	50	44.92	0	6.2	2
	17	R.	EII		53.020			44.67	0	6.0	4
Apr.	3	R.	WII		53.044			45.19	0	6.0	1
	8	Fn.	WII		52.986			43.97	0	5.9	1½
1915											
Mar.	29	Fn.	EI		53.029			43.96	0	5.5	3
	30	Wy.	EI		53.088			44.63	0	6.5	3
Apr.	17	An.	WI		52.987			44.88	0	5.5	2
	19	Fn.	WI		53.002			44.70	0	---	2
Mean		1913.75		10 5	53.024	+37	50	44.62			
Corr					−0.081			−0.27			

λ Hydræ

				h m	s	°	′	″			
				10 6	11.980	−11	54	32.18			
1912											
Mar.	2	R.	WII		+0.015			−1.61	I	4.9	--
	7	Fn.	WII		+0.067			−0.91	I	3.9	2½
	10	Fn.	EII		+0.079			−0.40	I	3.4	3½
	13	Fn.	EII		−0.011			−0.11	I	3.7	3
1915											
Mar.	31	An.	EI		−0.017			+0.30	I	4.9	3½
Apr.	1	Fn.	EI		+0.026			+0.28	0	5.0	2½
	14	An.	WI		+0.052			−1.25	II	3.1	2
	15	Hd.	WI		+0.040			−0.07	I	3.4	3
Mean		1913.73			+0.031			−0.47			
Corr					−0.081			−0.13			

Fedorenko 1629

				h m	s	°	′	″			
1912											
Apr.	9	Hd.	WII	10 6	53.77	+79	23	34.62	0	6.5	3
	10	R.	WII		54.04			35.00	0	---	4
	11	Fn.	EII		53.62			33.18	0	7.2	4
	19	Hd.	EII		53.93			33.75	0	6.5	2
1915											
Apr.	6	Wy.	EI		53.71			35.31	0	7.0	2½
	7	An.	EI		53.94			34.18	0	7.0	3
	21	An.	WI		54.12			34.14	0	---	2½
	24	An.	WI		54.04			35.31	0	7.5	2½
Mean		1913.78		10 6	53.896	+79	23	34.44			
Corr					−0.081			−0.37			

Fedorenko 1629 s. p.

				h m	s	°	′	″			
1912											
Oct.	4	Hd.	EII	10 6	53.71	+79	23	33.80	0	7.0	2
	5	Hd.	EII		53.89			34.66	0	7.5	3½
	11	Hd.	WII		53.62			33.31	0	7.5	4
	15	Hd.	WII		53.64			33.58	0	7.2	3½
1914											
Aug.	7	Hd.	EI		53.85			33.32	0	8.0	3
Sept.	1	An.	WI		-----			33.20	0	7.0	3½
	4	Fn.	WI		53.70			34.35	0	7.0	3
	9	Fn.	EI		53.65			34.24	0	7.0	3
	28	Hd.	WI		53.66			33.94	0	7.5	2½
Mean		1913.72		10 6	53.715	+79	23	33.82			
		1913.83									
Corr					−0.081			+0.49			

Weisse$_2$ X 77

				h m	s	°	′	″			
1912											
Dec.	19	R.	EII	10 7	36.063	+28	41	12.33	0	7.0	3
	21	R.	EII		36.047			12.85	0	7.5	2
	22	R.	WII		36.045			13.04	0	7.0	2
1913											
Jan.	14	R.	WII		36.082			12.87	0	7.5	1
1914											
Jan.	8	Hd.	EI		36.049			13.32	0	7.0	3
	9	R.	EI		36.022			12.42	0	7.0	2

			h m s	° ′ ″			
1914							
Jan. 27	R.	WI	36.104		12.57	0	7.5 2½
28	Fn.	WI	36.058		12.74	0	7.0 3
Mean	1913.52		10 7 36.059	+28 41	12.77		
Corr			−0.081		−0.25		

Fedorenko 1653 *pr.*

			h m s	° ′ ″			
1912							
Apr. 20	Fn.	WII	10 10 36.66	+71 30	37.35	0	--- --
23	Hd.	WII	36.62		37.95	0	--- 2
27	R.	EII	36.44		37.69	0	6.5 3
May 1	R.	EII	36.52		37.58	0	7.0 1½
1915							
Nov. 27	Wy.	EI	36.62		38.00	0	6.5 3
29	Wy.	EI	36.58		37.31	0	7.5 3½
Dec. 6	Hd.	WI	36.49		38.18	0	6.0 2
8	Wy.	WI	36.50		38.62	0	7.0 3
Mean	1914.12		10 10 36.554	+71 30	37.84		
Corr			−0.081		−0.34		

Fedorenko 1653 *pr.* s. p.

			h m s	° ′ ″			
1911							
July 31	Fn.	WII	10 10 36.66	+71 30	38.88	0	6.8 --
Aug. 9	Fn.	EII	36.78		36.89	0	7.5 --
10	R.	EII	36.42		37.53	0	7.0 2½
Oct. 16	Fn.	WII	36.52		36.99	0	6.4 2½
1914							
Oct. 9	Hd.	WI	36.58		36.40	0	7.5 3
12	Hd.	WI	36.72		36.14	0	7.0 3½
20	Hd.	EI	36.58		37.54	0	--- 4
30	Hd.	EI	36.61		36.23	0	7.0 4
31	An.	EI	-----		36.62	0	--- 3½
Mean	1913.22		10 10 36.609	+71 30	37.02		
	1913.40						
Corr			−0.081		+0.58		

32 Ursæ Majoris

			h m s	° ′ ″			
			10 11 30.624	+65 33	27.83		
1913							
Jan. 27	Fn.	EII	−0.07		+0.15	0	--- 2½
Feb. 6	R.	WII	+0.04		+0.96	0	6.0 3½
14	Fn.	WII	0.00		+0.12	0	6.0 2½
18	Hd.	EII	−0.05		−0.21	0	6.0 2
Dec. 8	Hd.	EI	−0.01		+0.02	0	6.0 3
11	Hd.	EI	−0.04		+0.05	0	6.0 3
18	Hd.	WI	+0.07		−0.01	0	6.0 2
19	Fn.	WI	+0.08		−0.63	0	6.0 2
1915							
Feb. 10	Hd.–An.	EI	----		+0.03	0	--- 3 R.
17	Fn.–Wy.	EI	----		−0.87	0	--- 2 R.
18	Hd.–An.	EI	----		+0.61	0	6.0 2
19	Fn.–Wy.	EI	----		+0.77	0	6.0 2
20	An.–Hd.	WI	----		+0.90	0	--- 2 R.
21	An.–Hd.	WI	----		−0.06	0	--- 3
Mar. 1	Wy.–Fn.	WI	----		+0.57	0	6.0 3
9	Wy.–Fn.	WI	----		+0.43	0	--- 3½ R.
1916							
Mar. 23	Hd.–Wy.	WI	----		+0.62	0	6.0 2
24	Hd.–Wy.	WI	----		+0.56	0	--- 3 R.
31	Hd.–Wy.	EI	----		+0.54	0	6.0 2
Apr. 10	Hd.–Wy.	EI	----		+0.56	0	--- 2 R.
15	Hd.–Fn.	EI	----		+0.82	0	6.0 2
18	Hd.–Fn.	EI	----		−0.05	0	--- 3 R.
19	Hd.–Fn.	WI	----		+1.01	0	--- 3 R.
20	Hd.–Wy.	WI	----		+0.54	0	6.0 3
Mean	1913.53		+0.002		+0.30		
	1914.62						
Corr			−0.081		−0.33		

Bradley 1424

			h m s	° ′ ″			
1912							
Feb. 14	R.	EII	10 11 33.439	+23 57	2.78	0	6.0 1½
23	Hd.	WII	33.405		2.86	0	6.0 3
28	R.	WII	33.406		2.57	0	6.0 2
Mar. 9	R.	EII	33.432		3.48	0	7.0 1½
1915							
Nov. 30	Hd.	EI	33.395		2.51	0	--- 2
Dec. 2	Hd.	EI	33.383		2.36	0	6.0 2
9	Fn.	WI	33.317		2.40	0	6.0 2
10	Hd.	WI	33.341		2.71	0	6.5 2
Mean	1914.04		10 11 33.390	+23 57	2.71		
Corr			−0.081		−0.24		

λ Ursæ Majoris

			h m s	° ′ ″				
			10 11 40.407	+43 21	51.05			
1912								
Apr. 3	R.	WII	+0.003		+0.05	I	2.9 1	
4	Fn.	EII	+0.003		−0.10	I	--- 2	
6	R.	EII	−0.068		−0.51	0	--- 3	
8	Fn.	WII	−0.001		−0.24	I	3.3 1½	
1915								
Apr. 1	Fn.	EI	−0.009		----	0	--- 2	
15	Hd.	WI	−0.052		----	I	2.9 2	
May 6	Fn.	EI	−0.020		----	I	3.9 2	
Dec. 4	Fn.	EI	−0.053		+0.21	I	3.9 2	
21	Hd.	WI	−0.031		−0.25	I	3.4 2	
22	Fn.	WI	−0.046		+0.54	I	3.9 2½	
23	Hd.	WI	-----		−0.26	I	3.4 3	
1916								
Jan. 3	Wy.	EI	+0.014		−0.77	I	3.9 3	
Mar. 10	Fn.	WI	−0.093		----	I	3.9 2½	
1918								
Apr. 5	Fn.	EII	−0.017		----	0	--- 2	
Mean	1914.86		−0.028		−0.15			
	1914.32							
Corr			−0.081		−0.28			

ζ Leonis

			h m s	° ′ ″				
			10 11 41.247	+23 51	58.15			
			s	″	″			
1911								
Nov. 15	*Hd.*	*EII*	*+0.044*	*−0.03*	*−0.03*	*I*	---	*2½*
16	*Hd.*	*EII*	-----	*−0.56*	*−0.54*	*I*	---	*1*
1912								
Mar. 13	Fn.	EII	+0.017		−0.12	I	3.2	2½
16	Fn.	EII	+0.034		+0.20	I	2.7	1½
31	Hd.	WII	+0.018		−0.46	I	3.1	--
Apr. 2	Hd.	WII	+0.022		−0.59	I	3.4	4
16	Hd.	EII	−0.003		----	I	2.9	2
19	Hd.	EII	+0.030		−0.16	I	3.4	2
Oct. 16	*R.*	*WII*	-----	*−0.53*	*−0.54*	*0*	---	--
25	*R.*	*EII*	*+0.051*	*−0.29*	*−0.30*	*0*	---	--
28	*R.*	*EII*	*+0.051*	*+0.27*	*+0.29*	*0*	---	--
29	*Fn.*	*EII*	*+0.087*	----	----	*0*	---	*3½*
30	*Hd.*	*EII*	*−0.036*	*−0.34*	*−0.33*	*0*	---	*2*
Dec. 19	R.	EII	+0.022		----	I	---	3½
28	R.	WII	+0.036		----	I	3.9	1½
1913								
Jan. 19	R.	EII	−0.002		+0.09	I	3.4	2
21	R.	EII	+0.023		----	I	---	1
29	Fn.	WII	+0.017		+0.17	I	3.3	2
30	R.	WII	+0.040		−0.83	I	3.4	3
Feb. 4	R.	WII	−0.001		−0.32	I	3.4	2½
15	R.	WII	+0.032		−0.59	I	---	1½
Mar. 7	Fn.	EII	+0.058		+0.14	I	3.2	2
11	Hd.	EII	+0.007		−0.10	I	3.4	2
12	Fn.	EII	+0.042		+0.04	0	---	2
20	R.	WII	+0.043		−0.57	I	2.9	2
21	Fn.	WII	+0.012		−0.56	I	---	3½
22	Hd.	WII	−0.003		+0.32	I	3.4	2
29	Hd.	EII	+0.038		−0.30	I	2.9	2
31	Fn.	EII	+0.015		−0.17	I	3.0	2½

				s	"	"			
1913									
Apr.	5	Hd.	WII	+0.017		0.00	I	2.9	2
	7	Fn.	WII	+0.027		−0.65	I	2.9	2
	8	Hd.	WII	+0.003		−0.66	I	...	2½
	16	Hd.	WII	+0.006		+0.14	I	3.1	3
	21	Hd.	EII	+0.023		−0.38	I	2.9	2
Dec.	30	Fn.	WI	−0.005		−0.05	0	...	2
1914									
Jan.	27	R.	WI	+0.016		....	I	3.4	2
Feb.	2	Hd.	WI	+0.030		....	I	...	3
	3	Fn.	EI	0.000		....	0	...	2½
	7	Wy.	EI	+0.022		....	I	3.4	2½
	9	Hd.	EI	+0.018		....	I	3.4	3
	17	Fn.	WI	+0.029		....	I	3.9	3
Mar.	12	Fn.	WI	+0.008		+0.39	I	3.4	2
	14	Hd.	WI	+0.024		−0.05	I	...	3
	20	Wy.	EI	+0.053		−0.83	I	3.9	3
	23	Fn.	EI	+0.009		....	I	3.4	2
	26	Fn.	EI	−0.009		−0.23	I	3.4	2½
Apr.	4	Hd.	WI	+0.001		−0.48	0	...	2
	5	Hd.	WI	0.000		+0.76	I	3.9	2
	6	Fn.	WI	+0.024		−0.37	I	3.4	2
	9	Fn.	WI	+0.023		−0.32	I	3.4	2
	10	Wy.	WI	+0.018		+0.62	I	3.6	2
	13	Fn.	EI	−0.010		+0.22	I	3.4	2
	17	Wy.	EI	+0.011		+0.02	I	2.9	2
	18	Hd.	EI	+0.009		−0.48	0	...	2
	20	Wy.	EI	−0.001		−0.31	I	3.4	2½
	21	Hd.	EI	+0.021		−0.22	I	3.4	2
	23	Wy.	EI	+0.034		−1.01	I	3.4	2½
	26	Hd.	EI	−0.014		−0.58	I	3.4	2½
May	1	Hd.	WI	.....		−0.52	0	...	2
	2	Fn.	WI	+0.026		−0.55	I	3.4	2
Sept.	*9*	*An.*	*EI*	*−0.019*		....	*0*	...	...
	21	*Wy.*	*EI*	.....	*−0.75*	*−0.70*	*0*	...	*3½*
	25	*An.*	*EI*	*−0.038*	*−0.64*	*−0.62*	*0*	...	*3*
	27	*Hd.*	*WI*	*+0.045*	*−0.76*	*−0.71*	*0*	...	*3½*
	28	*Wy.*	*WI*	*+0.018*	*−0.66*	*−0.57*	*0*	...	*3½*
	29	*An.*	*WI*	*0.000*	*+0.16*	*+0.16*	*0*	...	*3½*
	30	*Hd.*	*WI*	*+0.044*	*−0.13*	*−0.10*	*0*	...	*3*
Oct.	*1*	*Wy.*	*WI*	*+0.003*	*−0.40*	*−0.37*	*0*	...	*3½*
	11	*Hd.*	*WI*	*+0.055*	*+0.09*	*+0.10*	*0*	...	*3*
	12	*Wy.*	*WI*	.....	*+0.27*	*+0.29*	*0*	...	*3½*
	18	*Hd.*	*EI*	*+0.033*	*−0.18*	*−0.17*	*0*	...	*2½*
	19	*Wy.*	*EI*	.....	*+0.45*	*+0.46*	*0*	...	*3*
	20	*An.*	*EI*	*−0.044*	*−0.29*	*−0.25*	*0*	...	*3½*
	21	*Hd.*	*EI*	*+0.045*	*+0.07*	*+0.07*	*0*	...	*3*
	27	*An.*	*EI*	*−0.030*	*+0.01*	*−0.02*	*0*	...	*3½*
	28	*Fn.*	*EI*	.....	*−0.66*	*−0.64*	*0*	...	*3*
Nov.	*4*	*Wy.*	*WI*	*−0.003*	....	....	*0*	...	*3½*
	16	*Fn.*	*EI*	*+0.032*	....	....	*I*	...	*2½*
	23	Wy.	EI	+0.011		−0.39	I	3.4	2½
1915									
Mar.	29	Fn.	EI	+0.008		−0.26	I	3.4	3
	30	Wy.	EI	+0.010		0.00	I	3.4	3
	31	An.	EI	+0.026		+0.18	I	4.4	2½
Apr.	19	Fn.	WI	+0.064		−0.07	0	...	2
	21	An.	WI	+0.045		+0.34	I	...	1½
	24	An.	WI	+0.033		+0.03	I	...	...
May	10	Hd.	EI	+0.016		−0.21	I	3.4	2
Sept.	*21*	*Hd.*	*EI*	*+0.001*	*−0.33*	*−0.28*	*0*	...	*3½*
	22	*Hd.*	*EI*	*+0.072*	*−1.12*	*−1.06*	*0*	...	*3*
	23	*Wy.*	*EI*	*+0.046*	*−0.53*	*−0.48*	*0*	...	*3½*
	26	*Hd.*	*EI*	*+0.018*	*−0.82*	*−0.79*	*0*	...	*3½*
	27	*Fn.*	*EI*	.....	*−0.10*	*−0.07*	*0*	...	*3½*
Oct.	*7*	*Hd.*	*WI*	*+0.032*	*−0.13*	*−0.12*	*0*	...	*3*
	11	*Wy.*	*WI*	*+0.023*	....	....	*0*	...	*4½*
	22	*Fn.*	*WI*	*+0.007*	*−0.26*	*−0.26*	*0*	...	*3½*
	24	*Hd.*	*WI*	*+0.019*	*+0.25*	*+0.25*	*0*	...	*3*
	25	*Fn.*	*WI*	.....	*−0.47*	*−0.48*	*0*	...	*3*
	29	*Wy.*	*EI*	*+0.025*	*−0.18*	*−0.20*	*0*	...	*3*
1916									
Jan.	7	Wy.	EI	+0.033		....	I	3.4	2½
	8	Fn.	EI	+0.030		....	I	3.4	3
	14	Hd.	EI	+0.056		−0.24	I	2.9	2
	23	Fn.	EI	+0.035		+0.28	0	...	2
	25	Hd.	EI	+0.002		−0.39	I	2.9	2
Feb.	3	Fn.	EI	+0.022		−0.49	I	3.9	2
	7	Fn.	EI	+0.006		−1.12	I	3.4	2

				s	"	"			
1916									
Feb.	9	Hd.	WI	−0.013		....	I	2.9	2½
	11	Fn.	WI	+0.018		+0.68	0	...	2½
	15	Hd.	WI	+0.001		−0.22	0	...	3
	28	Fn.	WI	−0.019		....	0	...	2
	29	Hd.	WI	−0.042		+0.66	I	3.4	3
Mar.	3	Hd.	WI	−0.009		−0.05	0	...	3
	4	Wy.	WI	+0.001		+0.08	I	3.9	3
	5	Fn.	WI	+0.008		....	0	...	3
	9	Fn.	WI	−0.012		+0.19	I	3.4	3
	11	Wy.	WI	−0.012		−0.17	I	3.9	2
June	*22*	*Fn.*	*WI*	*+0.035*	*−0.13*	*−0.09*	*0*	...	*3½*
Sept.	*18*	*Hd.*	*EI*	*−0.053*	*−1.44*	*−1.41*	*0*	...	*3*
Oct.	*1*	*Wy*	*WI*	*+0.072*	*−0.78*	*−0.76*	*0*	...	*3½*
	25	*Wy.*	*EI*	*+0.041*	*−0.07*	*−0.06*	*0*	...	*3*
Nov.	*1*	*Hd.*	*EI*	*−0.043*	*−0.26*	*−0.21*	*0*	...	*3*
	2	*Fn.*	*EI*	*−0.012*	*+0.05*	*+0.06*	*0*	...	*3*
1917									
Mar.	19	Fn.	EI	+0.023		−0.28	I	3.4	1½
Apr.	23	Wy.	EI	+0.025		−0.38	I	3.4	2
	30	Hd.	EI	0.000		−0.66	I	3.4	3
May	3	Hd.	EI	+0.005		−0.19	I	3.4	2
	10	*Fn.*	*WI*	*+0.047*	*+0.22*	*+0.21*	*0*	...	*2½*
	11	*Wy.*	*WI*	*+0.004*	*−0.42*	*−0.42*	*0*	...	*3*
	14	*Wy.*	*WI*	*+0.026*	*+0.21*	*+0.19*	*I*	...	*3*
	15	*Hd.*	*WI*	*+0.006*	*+0.51*	*+0.50*	*0*	...	*2*
	18	*Hd.*	*WI*	*+0.012*	*−0.12*	*−0.09*	*0*	...	*2½*
June	*25*	*Wy.*	*WII*	*−0.031*	*−0.95*	*−0.92*	*0*	...	*3½*
July	*2*	*Hd.*	*EII*	.....	*−0.55*	*−0.54*	*0*	...	*3*
Sept.	*17*	*Wy.*	*EII*	*+0.049*	*−0.74*	*−0.67*	*0*	...	*3½*
	30	*Hd.*	*WII*	*+0.050*	*−0.67*	*−0.65*	*0*	...	*3½*
Oct.	*7*	*Hd.*	*EII*	.....	*−0.62*	*−0.60*	*0*	...	*3*
	21	*Hd.*	*EII*	*−0.017*	*−0.30*	*−0.30*	*0*	...	*3½*
	25	*Fn.*	*EII*	*−0.012*	*−0.12*	*−0.15*	*0*	...	*3½*
Nov.	*1*	*Fn.*	*EII*	*−0.001*	*−0.02*	*−0.01*	*0*	...	*3*
1918									
Mar.	25	Fn.	WII	+0.058		−1.43	I	3.9	2½
May	2	Fn.	EII	.....		−0.43	I	3.4	2½
	8	*Fn.*	*EII*	*−0.007*	*−0.36*	*−0.36*	*I*	...	*2*
June	*19*	*Wy.*	*WII*	*+0.003*	*−1.10*	*−1.08*	*0*	...	*3½*
Mean			1914.50	+0.016		−0.21			
			1914.57						
Corr				−0.081		−0.24			

Bradley 1426

				h	m	s	°	′	″			
1912												
Mar.	2	R.	WII	10	11	50.996	+14	10	37.80	0	6.0	1
	7	Fn.	WII			51.031			38.82	0	5.5	2½
	10	Fn.	EII			51.012			38.46	0	5.5	3
	17	R.	EII			50.998			38.68	0	5.5	4
1915												
Apr.	8	Hd.	EI			50.994			38.90	I	4.9	2
	12	Hd.	WI			50.983			39.07	0	...	2½
	13	Fn.	WI			50.968			39.30	0	5.5	2½
	30	Wy.	EI			50.972			39.28	0	...	3
May	2	Hd.	EI			50.999			38.99	0	...	2
Mean			1913.92	10	11	50.995	+14	10	38.81			
Corr						−0.081			−0.22			

Radcliffe 1890, 2651

				h	m	s	°	′	″			
1913												
Mar.	17	Fn.	WII	10	12	14.980	−18	51	34.64	0	7.5	4
	18	Hd.	WII			14.931			33.81	0	6.5	3
	24	Fn.	EII			14.946			34.87	0	7.5	4
	28	Fn.	EII			14.955			33.06	0	7.2	3
Dec.	26	Fn.	WI			14.935			33.43	0	7.0	3
	29	Hd.	WI			14.915			33.71	0	7.0	3
1914												
Jan.	8	Hd.	EI			14.961			33.00	0	8.5	3
	15	Hd.	EI			14.978			33.57	0	7.5	3
Mean			1913.62	10	12	14.950	−18	51	33.76			
Corr						−0.081			−0.09			

22 Sextantis

			h m	s	° ′	″			
1912									
Apr. 9	Hd.	WII	10 13	9.477	−7 37	9.62	0	5.7	3
10	R.	WII		9.459		8.56	0	5.5	5
11	Fn.	EII		9.488		9.92	0	5.7	3½
16	Hd.	EII		9.483		9.44	0	5.8	3
1915									
Apr. 6	Wy.	EI		9.414		9.33	0	6.0	3
7	An.	EI		9.403		9.44	I	5.9	2½
14	An.	WI		9.484		8.75	I	5.4	2
17	An.	WI		9.460		9.40	I	5.4	3
Mean	1913.78		10 13	9.458	−7 37	9.31			
Corr				−0.081		−0.15			

Piazzi X 39

			h m	s	° ′	″			
1912									
Dec. 21	R.	EII	10 14	0.032	−28 32	30.55	0	---	3
22	R.	WII		0.041		30.84	0	7.5	3½
28	R.	WII		0.068		31.35	0	6.0	2
1913									
Jan. 18	R.	EII		0.068		31.64	0	6.5	3
19	R.	EII		0.040		29.96	0	6.5	3
1914									
Jan. 9	R.	EI		0.091		31.03	0	---	3½
27	R.	WI		0.067		30.36	0	---	4
28	Fn.	WI		0.051		30.89	0	---	4
Mar. 23	Fn.	EI		0.015		30.55	0	6.0	3
Mean	1913.49		10 14	0.053	−28 32	30.80			
Corr				−0.081		+0.01			

138 B. Ursæ Majoris

			h m	s	° ′	″			
1912									
Dec. 30	Fn.	WII	10 14	42.255	+54 40	7.73	0	6.3	2
1913									
Jan. 14	R.	WII		42.175		7.94	0	6.0	1
21	R.	EII		42.168		8.45	0	5.5	1
22	Fn.	EII		42.213		7.79	0	6.5	3
1914									
Feb. 2	Hd.	WI		42.262		8.18	0	---	3
9	Hd.	EI		42.263		7.93	0	6.0	3
17	Fn.	WI		42.309		8.09	0	6.0	3
Mar. 18	Hd.	EI		42.270		8.54	0	6.5	3
Mean	1913.59		10 14	42.239	+54 40	8.08			
Corr				−0.081		−0.30			

γ Leonis *pr.*

			h m	s	° ′	″			
			10 15	0.849	+20 17	49.01			
1912									
Apr. 20	Fn.	WII		+0.089		−0.66	II	2.5	2
23	Hd.	WII		+0.077		−0.10	II	2.6	2
27	R.	EII		+0.035		−0.78	I	---	3
May 1	R.	EII		+0.038		+0.04	II	2.1	1½
1915									
Dec. 21	Hd.	WI		+0.067		−0.13	I	2.4	2
23	Hd.	WI		+0.044		−0.03	I	2.9	3
1916									
Jan. 7	Wy.	EI		+0.088		−0.58	II	2.6	2½
8	Fn.	EI		+0.068		−0.74	II	2.6	3
Feb. 9	Hd.	WI		+0.040		−0.06	II	2.6	3
Mean	1914.37			+0.061		−0.34			
Corr				−0.081		−0.23			

Bradley 1435

			h m	s	° ′	″			
1913									
Jan. 25	R.	EII	10 16	23.227	+2 44	33.84	0	7.0	2½
30	R.	WII		23.198		33.61	0	7.0	3
Feb. 4	R.	WII		23.216		33.87	0	7.0	2½
18	Hd.	EII		23.185		34.13	0	6.5	2
1914									
Jan. 29	Wy.	WI		23.180		33.71	0	6.5	3½
31	Fn.	WI		23.230		34.22	0	7.0	3
Mar. 26	Fn.	EI		23.203		33.40	0	7.0	2½
Apr. 13	Fn.	EI		23.252		33.58	0	7.0	2
Mean	1913.63		10 16	23.211	+2 44	33.80			
Corr				−0.081		−0.19			

29 H. Camelopardalis

			h m	s	° ′	″			
1912									
Mar. 31	Hd.	WII	10 16	42.58	+84 42	36.14	0	5.6	4
Apr. 2	Hd.	WII		42.86		36.52	0	5.5	4
19	Hd.	EII		42.64		36.99	0	5.8	2
25	Fn.	EII		42.32		36.90	0	---	2
1915									
Apr. 8	Hd.	EI		42.25		36.71	0	6.0	2½
12	Hd.	WI		41.80		37.50	0	---	3
13	Fn.	WI		42.38		37.53	0	6.0	3
30	Wy.	EI		41.92		36.92	0	---	2½
May 2	Hd.	EI		41.75		-----	0	---	2
Mean	1913.96		10 16	42.278	+84 42	36.90			
	1913.78								
Corr				−0.081		−0.39			

29 H. Camelopardalis s. p.

			h m	s	° ′	″			
1912									
Oct. 5	Hd.	EII	10 16	42.58	+84 42	35.73	0	6.0	3
9	Hd.	WII		42.40		36.06	0	7.0	3
11	Hd.	WII		42.36		35.93	0	6.0	3
28	Fn.	EII		42.41		35.52	0	5.9	3
1914									
Aug. 8	Wy.	EI		42.28		36.08	0	5.5	3
17	Fn.	WI		42.08		35.54	0	---	3
Sept. 4	Fn.	WI		42.27		35.97	0	6.0	2½
9	Fn.	EI		41.88		37.06	0	6.0	3
Mean	1913.72		10 16	42.282	+84 42	35.99			
Corr				−0.081		+0.44			

μ Ursæ Majoris

			h m	s	° ′	″			
			10 16	58.303	+41 57	9.13			
1913									
Feb. 13	R.	WII		−0.024		−0.15	II	2.6	2
14	Fn.	WII		−0.042		−0.39	I	2.7	2
Mar. 11	Hd.	EII		+0.026		+0.54	I	3.4	2
12	Fn.	EII		+0.039		+0.08	0	---	2
1914									
Mar. 9	Fn.	WI		+0.085		−0.33	0	---	2
13	Wy.	WI		+0.037		−0.13	0	3.5	2
14	Hd.	WI		−0.009		+0.40	I	3.9	3
23	Fn.	EI		+0.086		−0.12	I	2.9	2
24	Wy.	EI		+0.037		−0.36	I	3.4	2
1915									
Apr. 1	Fn.	EI		+0.056		----	I	3.9	2
May 6	Fn.	EI		−0.016		----	I	3.4	2
1916									
Feb. 28	Fn.	WI		−0.004		----	0	---	2
Mar. 10	Fn.	WI		−0.011		----	I	3.4	2½
June 22	*Fn.*	*WI*		*−0.024*	*−0.10*	*−0.11*	*0*	---	*3½*
Sept. 18	*Hd.*	*EI*		*−0.003*	*+0.07*	*+0.06*	*0*	---	*3½*
21	*Hd.*	*EI*		*−0.064*	*+0.15*	*+0.14*	*0*	---	*3½*
Oct. 1	*Wy.*	*WI*		*+0.067*	*−0.18*	*−0.18*	*0*	---	*3½*
25	*Wy.*	*EI*		*−0.022*	*+0.53*	*+0.53*	*0*	---	*3*
Nov. 1	*Hd.*	*EI*		*−0.044*	*−0.08*	*−0.09*	*I*	---	*3*
2	*Fn.*	*EI*		*+0.046*	*+0.98*	*+0.98*	*0*	---	*3*
1917									
Mar. 30	Fn.	WI		+0.049		+0.75	I	3.4	2½
Apr. 30	Hd.	EI		−0.002		−0.24	I	3.4	3
May 1	Fn.	EI		−0.023		−0.34	I	3.4	3
3	Hd.	EI		−0.003		−0.18	I	2.9	2
10	*Fn.*	*WI*		*+0.021*	*+1.37*	*+1.37*	*0*	---	*2½*
11	*Wy.*	*WI*		*+0.014*	*−0.18*	*−0.18*	*I*	---	*3*
14	*Wy.*	*WI*		*+0.011*	*+0.06*	*+0.06*	*I*	---	*3*

				s	″	″				
1917										
May	*15*	*Hd.*	*WI*	*+0.002*	*+0.57*	*+0.57*	*I*	---	*2*	
	18	*Hd.*	*WI*	*+0.004*	*+1.31*	*+1.31*	*0*	---	*2½*	
June	*1*	*Wy.*	*WI*	-----	*−0.11*	*−0.11*	*0*	---	*3½*	
	4	*Wy.*	*WI*	*−0.026*	*−0.22*	*−0.22*	*0*	---	*3*	
	25	*Wy.*	*WII*	*−0.022*	*+0.78*	*+0.77*	*0*	---	*3½*	
July	*2*	*Hd.*	*EII*	-----	*−0.29*	*−0.29*	*0*	---	*3*	
Sept.	*12*	*Hd.*	*EII*	*−0.023*	*−0.12*	*−0.14*	*0*	---	*3½*	
	16	*Hd.*	*EII*	*−0.010*	*−0.41*	*−0.42*	*0*	---	*3½*	
	17	*Wy.*	*EII*	*+0.086*	*+0.06*	*+0.05*	*0*	---	*3½*	
	19	*Hd.*	*WII*	*+0.024*	*+0.24*	*+0.23*	*0*	---	*3*	
Oct.	*1*	*Fn.*	*WII*	*−0.028*	*+0.37*	*+0.36*	*0*	---	*3½*	
	3	*Hd.*	*WII*	*+0.052*	*+0.34*	*+0.33*	*0*	---	*3½*	
	7	*Hd.*	*EII*	-----	*−0.50*	*−0.51*	*0*	---	*3½*	
	21	*Hd.*	*EII*	*−0.021*	*−0.13*	*−0.13*	*0*	---	*3½*	
	25	*Fn.*	*EII*	*−0.045*	*+0.05*	*+0.04*	*0*	---	*3½*	
Nov.	*1*	*Fn.*	*EII*	*+0.001*	*+0.35*	*+0.35*	*0*	---	*3*	
1918										
Mar.	25	Fn.	WII	−0.037		+0.46	I	3.4	2½	
	28	Fn.	WII	+0.020		----	I	3.4	2	
Apr.	5	Fn.	EII	−0.021		----	I	3.4	2	
May	2	Fn.	EII	-----		−0.31	I	2.9	2½	
	8	*Fn.*	*EII*	*−0.020*	*+0.82*	*+0.82*	*I*	---	*2*	
June	*19*	*Wy.*	*WII*	-----	*+0.24*	*+0.24*	*0*	---	*3½*	
Mean		1915.53		+0.012		−0.02				
		1915.30								
Corr				−0.081		−0.27				

Paris 12690

				h	m	s	°	′	″				
1912													
Feb.	14	R.	EII	10	17	14.701	−23	15	28.37	0	7.0	3	
	23	Hd.	WII			14.592			28.07	0	6.5	4½	
	28	R.	WII			14.599			27.48	0	---	3	
Mar.	13	Fn.	EII			14.625			29.13	0	7.0	4	
1915													
Mar.	30	Wy.	EI			14.592			27.91	0	---	3½	
	31	An.	EI			14.588			27.91	0	7.0	3½	
Apr.	17	An.	WI			14.671			27.94	0	7.0	3½	
	21	An.	WI			14.674			28.77	0	---	3	
Mean		1913.71		10	17	14.630	−23	15	28.20				
Corr						−0.081			−0.05				

30 H. Ursæ Majoris

				h	m	s	°	′	″				
				10	17	39.607	+66	1	18.90				
1912													
Mar.	2	R.	WII			−0.31			−0.33	0	---	1	
	7	Fn.	WII			−0.31			+0.06	0	---	---	
	16	Fn.	EII			−0.30			−0.41	0	5.2	2	
	17	R.	EII			−0.32			−0.78	0	5.5	3	
1915													
Apr.	6	Wy.	EI			−0.17			+0.51	I	4.9	2	
	7	An.	EI			−0.21			−0.56	0	---	---	
	14	An.	WI			−0.23			−0.53	I	5.4	1½	
	15	Hd.	WI			−0.37			+0.32	I	4.9	2	
1916													
Mar.	23	Hd.–Wy.	WI			----			+0.06	0	---	2	R.
	24	Hd.–Wy.	WI			----			+0.44	0	---	3	
	31	Hd.–Wy.	EI			----			−0.47	0	---	2	R.
Apr.	10	Hd.–Wy.	EI			----			−0.21	I	4.4	2	
	15	Hd.–Fn.	EI			----			+0.13	0	---	2	R.
	18	Hd.–Fn.	EI			----			+0.68	0	5.5	3	
	19	Hd.–Fn.	WI			----			+0.01	0	6.0	3	
	20	Hd.–Wy.	WI			----			0.00	0	---	3	R.
Mean		1913.73				−0.278			−0.07				
		1914.58											
Corr						−0.081			−0.33				

Bradley 1438

				h	m	s	°	′	″				
1913													
Feb.	6	R.	WII	10	17	55.532	+34	21	46.68	0	6.5	2½	
	8	R.	WII			55.598			46.34	0	6.0	2	
Mar.	6	Hd.	EII			55.521			46.45	0	6.2	2½	
Mar.	7	Fn.	EII			55.536			46.46	0	6.0	2	
Dec.	26	Fn.	WI			55.532			47.10	0	6.0	2	
	29	Hd.	WI			55.503			47.07	0	6.0	2	
1914													
Jan.	8	Hd.	EI			55.520			46.17	0	7.0	3½	
	15	Hd.	EI			55.517			46.41	0	6.5	3	
Mean		1913.58		10	17	55.532	+34	21	46.58				
Corr						−0.081			−0.26				

30 H. Camelopardalis

				h	m	s	°	′	″				
				10	20	11.457	+83	1	1.38				
1911													
Nov.	21	R.	EII			+0.26			+0.62	0	---	---	
	22	Fn.	EII			----			+0.21	0	---	2	R.
	22	Fn.	EII			+0.22			+0.51	0	---	2	
	30	Hd.	WII			----			+0.87	I	---	3	R.
	30	Hd.	WII			+0.05			+1.02	I	4.4	3	
Dec.	4	R.	WII			----			+1.36	0	---	2½	R.
	4	R.	WII			+0.09			+0.67	0	5.5	2½	
	5	R.	WII			----			+1.41	0	---	3	R.
	5	R.	WII			+0.03			+0.54	0	5.5	3	
	6	R.	WII			----			+0.70	0	---	1	R.
	6	R.	WII			+0.03			+0.99	0	6.5	1	
	10	Hd.	EII			----			+0.13	0	---	2	R.
	10	Hd.	EII			+0.16			+0.77	0	5.5	2	
	18	R.	EII			----			+1.04	0	---	4	R.
	18	R.	EII			−0.33			+0.96	0	---	4	
	19	R.	EII			−0.18			+0.46	0	---	---	
1912													
Nov.	18	Hd.	EII			----			+0.17	0	---	2	R.
	18	Hd.	EII			−0.25			+1.05	0	---	2	
	20	Hd.	EII			----			+0.17	0	---	3½	R.
	20	Hd.	EII			+0.03			+0.77	0	---	3½	
Dec.	3	Hd.	WII			----			+1.00	0	---	3	R.
	3	Hd.	WII			−0.06			+0.35	0	6.0	3	
	8	Hd.	WII			−0.02			----	0	5.5	3	
	9	Fn.	WII			----			+1.19	0	---	2	R.
	9	Fn.	WII			−0.03			+0.51	0	5.5	2	
	11	Hd.	EII			−0.42			+0.87	0	---	3½	
	12	R.	EII			----			−0.83	0	---	2½	R.
	12	R.	EII			+0.53			+0.65	0	5.5	2½	
	13	Fn.	EII			----			−0.28	0	---	2	R.
	13	Fn.	EII			−0.18			+1.54	0	---	2	
1913													
Nov.	18	Fn.	WI			----			+0.70	0	---	2	R.
	18	Fn.	WI			+0.14			+0.37	0	5.0	2	
	19	R.	WI			----			+0.31	0	---	3½	R.
	19	R.	WI			−0.06			+1.16	0	---	3½	
	20	Hd.	WI			----			+0.51	0	---	2	R.
	20	Hd.	WI			+0.09			−0.20	0	6.0	2	
	21	Fn.	WI			----			+0.58	0	---	2½	R.
	21	Fn.	WI			0.00			+0.45	0	---	2½	
	22	R.	WI			----			+0.43	0	---	2	R.
	22	R.	WI			−0.09			----	0	5.5	2	
	24	Hd.	WI			----			+1.38	0	---	3	R.
	24	Hd.	WI			+0.32			+0.37	I	4.9	2	
Dec.	3	R.	EI			----			+0.90	0	---	2	R.
	3	R.	EI			+0.24			+0.09	I	4.4	2	
	5	R.	EI			+0.30			+0.67	0	5.0	3½	
	8	Hd.	EI			−0.21			+0.78	0	6.0	3	
	11	Hd.	EI			----			+0.38	0	---	2	R.
	11	Hd.	EI			−0.18			+0.45	0	5.5	3	
	12	Fn.	EI			----			+0.88	0	---	4	R.
	12	Fn.	EI			−0.10			+1.49	0	---	4	
	13	R.	EI			+0.13			+0.83	0	---	4	
	18	Hd.	WI			----			+0.80	0	---	2	R.
	18	Hd.	WI			+0.03			+0.45	0	5.5	2	
	19	Fn.	WI			----			+0.14	0	---	2½	R.
	19	Fn.	WI			−0.09			+0.45	0	---	2½	
1914													
Nov.	*9*	*An.*	*WI*			*+0.49*	*+0.98*		*+0.89*	*0*	---	*3½*	
	13	*Hd.*	*WI*			*+0.08*	*+1.05*		*+1.08*	*0*	---	*2*	
	16	*Fn.*	*EI*			*+0.10*	*+1.18*		*+1.07*	*0*	---	*3*	
	17	*Hd.*	*EI*			----	*+0.86*		*+1.00*	*0*	---	*3*	*R.*
	17	*Hd.*	*EI*			*+0.20*	*+1.66*		*+1.80*	*0*	---	*3*	
	20	Wy.	EI			+0.07			+1.18	I	4.4	2½	

1914				″	″						
Nov. 22	Hd.	EI	+0.39		+0.86	0	6.0	3			
23	Wy.	EI	−0.27		+1.56	0	5.0	3			
25	Fn.	EI	+0.23		+2.12	0	...	4½			
Dec. 22	Fn.	WI	....		+1.12	0	...	3	R.		
22	Fn.	WI	+0.17		+0.58	0	5.5	3			
1915											
Nov. 15	*Wy.*	*WI*	....	*+1.00*	*+0.92*	*0*	...	*3*	*R.*		
15	*Wy.*	*WI*	*+0.01*	*+0.04*	*−0.04*	*0*	...	*3*			
16	*Hd.*	*WI*	....	*+1.55*	*+1.59*	*0*	...	*2*	*R.*		
16	*Hd.*	*WI*	*+0.41*	*+0.94*	*+0.97*	*0*	...	*2*			
17	*Fn.*	*WI*	....	*+1.38*	*+1.45*	*0*	...	*2*	*R.*		
17	*Fn.*	*WI*	*+0.21*	*+0.86*	*+0.93*	*0*	...	*2*			
27	Wy.	EI	....		+1.05	0	...	3	R.		
27	Wy.	EI	+0.23		+0.91	0	6.0	2½			
29	Wy.	EI	....		+1.02	0	...	3½	R.		
29	Wy.	EI	+0.39		+1.08	0	5.5	3½			
Dec. 2	Hd.	EI	....		+1.18	0	...	2	R.		
2	Hd.	EI	−0.05		+1.17	0	6.0	2			
3	Wy.	EI	....		+0.64	0	...	2½	R.		
3	Wy.	EI	+0.31		+0.52	0	5.5	2½			
4	Fn.	EI	+0.02		+1.63	0	5.5	2½			
6	Hd.	WI	+0.16		+0.72	0	6.0	3			
8	Wy.	WI	−0.29		+0.81	0	5.5	3½			
9	Fn.	WI	+0.38		+0.63	0	5.5	3			
10	Hd.	WI	+0.12		+1.00	0	6.0	2			
1916											
Oct. 25	*Wy.*	*EI*	....	*+0.23*	*+0.19*	*0*	...	*3½*			
Nov. 21	Hd.	WI	+0.24		+1.24	0	6.0	2			
23	Fn.	WI	−0.16		....	0	...	3			
26	Wy.	WI	−0.04		+1.02	0	6.0	3½			
1917											
Nov. 18	*Hd.*	*WII*	*+0.45*	*+0.69*	*+0.61*	*0*	...	*3½*			
Mean	1914.05		+0.049		+0.81						
	1914.01										
Corr			−0.081		−0.38						

30 H. Camelopardalis s. p.

h m s ° ′ ″
10 20 11.434 +83 1 1.39

1911											
Nov. 22	R.	EII	−0.29		−0.47	0	...	..			
Dec. 1	Hd.	WII	....		−0.08	0	...	3	R.		
1	Hd.	WII	−0.09		+0.36	0	6.0	3			
4	R.	WII	....		+1.22	0	...	..	R.		
4	R.	WII	−0.40		−1.18	0	...	..			
5	R.	WII	....		+0.55	0	...	2	R.		
5	R.	WII	−0.24		+0.10	0	5.5	2			
7	R.	WII	....		−0.03	0	...	1	R.		
7	R.	WII	−0.08		−0.52	0	5.5	1			
11	Hd.	EII	+0.24		−0.64	0	...	4			
12	Hd.	EII	....		−0.40	0	...	3½	R.		
12	Hd.	EII	−0.24		−0.11	0	...	3½			
19	*R.*	*EII*	*+0.16*	*+0.49*	*+0.54*	*0*	...	..			
1912											
Nov. 18	Hd.	EII	....		−0.56	0	...	2½	R.		
18	Hd.	EII	−0.55		+0.32	0	...	2½			
19	Hd.	EII	−0.02		−0.16	0	...	3			
20	Hd.	EII	....		−0.54	0	...	3	R.		
20	Hd.	EII	+0.27		+0.16	0	...	3			
Dec. 3	Hd.	WII	....		−0.67	0	...	3½	R.		
3	Hd.	WII	+0.14		+1.24	0	5.5	3			
7	R.	WII	+0.15		−0.66	0	6.0	2			
9	Hd.	WII	+0.03		+0.37	0	5.5	3½			
10	Hd.	WII	....		−0.38	0	...	3	R.		
10	Hd.	WII	+0.11		+0.06	0	6.0	3			
12	Hd.	EII	....		−0.42	0	...	3	R.		
12	Hd.	EII	+0.27		−0.26	0	5.5	3			
13	R.	EII	....		+0.39	0	...	..			
14	*Hd.*	*EII*	*+0.24*	*+0.42*	*+0.49*	*0*	...	*2*			
15	*Fn.*	*EII*	....	*−0.08*	*+0.07*	*0*	...	*3½*	*R.*		
15	*Fn.*	*EII*	*−0.02*	*−0.35*	*−0.22*	*0*	...	*3½*			
1913											
Aug. 14	R.–Fn.	WII	....		−0.16	0	6.0	2			
15	Fn.–R.	WII	....		+0.57	0	...	2½	R.		
15	Fn.–R.	WII	....		+0.10	0	5.7	2½			
16	Fn.–R.	WII	....		+0.37	0	...	2½	R.		
16	Fn.–R.	WII	....		−0.49	0	5.5	2½			

1913			s	″	″						
Aug. 17	R.–Fn.	WII	....		+0.45	0	...	2½	R.		
17	R.–Fn.	WII	....		−0.48	0	5.0	2½			
20	R.–Fn.	EII	....		−0.26	I	4.4	1			
25	R.–Fn.	EII	....		−0.93	0	...	3½	R.		
25	R.–Fn.	EII	....		+0.38	0	...	3½			
31	Fn.–R.	EII	....		−1.37	0	5.5	2½			
Sept. 4	Fn.–R.	EII	....		+0.57	0	...	2½	R.		
4	Fn.–R.	EII	....		−0.44	0	5.0	2			
Nov. 19	Hd.	WI	....		−1.47	0	...	..	R.		
19	Hd.	WI	−0.16		+0.68	0	6.0	3½			
20	Fn.	WI	....		−1.03	0	...	3	R.		
20	Fn.	WI	−0.51		+0.03	0	...	3			
21	R.	WI	....		+0.31	0	...	2½	R.		
21	R.	WI	+0.34		+0.18	0	5.5	2½			
22	Hd.	WI	....		−0.30	0	...	3½	R.		
22	Hd.	WI	+0.23		+0.17	0	6.0	3½			
24	Fn.	WI	−0.33		−0.49	0	...	4			
Dec. 3	Hd.	EI	−0.01		−0.11	0	...	3½			
5	Fn.	EI	....		−0.44	0	...	3½	R.		
5	Fn.	EI	+0.18		−0.29	0	...	3½			
9	R.	EI	....		−0.45	0	...	1½	R.		
9	R.	EI	+0.03		+0.22	I	4.9	1½			
12	R.	EI	....		−1.26	0	...	3	R.		
12	R.	EI	+0.36		−0.04	0	...	3			
13	Hd.	EI	....		−0.58	0	...	3½	R.		
13	Hd.	EI	−0.18		−0.51	0	6.0	3			
15	*Fn.*	*WI*	....	*−0.60*	*−0.60*	*0*	...	*2*	*R.*		
15	*Fn.*	*WI*	*+0.04*	*+0.11*	*+0.11*	*0*	...	*2*			
18	*Fn.*	*WI*	*+0.08*	*−0.53*	*−0.46*	*0*	...	*4*			
19	*R.*	*WI*	....	*−0.92*	*−0.71*	*0*	...	..	*R.*		
19	*R.*	*WI*	*+0.17*	*−0.45*	*−0.24*	*0*	...	..			
1914											
Nov. 9	Fn.	WI	−0.02		−1.24	0	5.5	2½			
10	An.	WI	....		−0.49	0	...	4			
11	Hd.	WI	+0.18		−0.38	0	5.5	3½			
13	Wy.	WI	−0.05		−0.59	0	...	4			
16	Wy.	EI	+0.23		+1.66	0	...	4			
18	Hd.	EI	....		+0.63	0	...	3	R.		
18	Hd.	EI	+0.08		−0.53	0	6.0	2½			
19	Wy.	EI	+0.22		−0.93	0	5.5	2½			
20	Fn.	EI	−0.28		+0.50	0	6.0	3½			
23	Hd.	EI	+0.05		+0.27	0	5.5	3½			
24	Wy.	EI	+0.40		−0.57	0	6.0	3½			
25	Fn.	EI	....		−0.20	0	...	4	R.		
25	Fn.	EI	−0.29		−0.85	0	...	4			
Dec. 14	*Fn.*	*WI*	*+0.25*	*+0.48*	*+0.66*	*0*	...	*3½*			
1915											
Nov. 15	Hd.	WI	+0.21		+0.11	0	6.0	3½			
16	Fn.	WI	....		−0.68	0	...	3	R.		
16	Fn.	WI	+0.03		+0.48	0	6.0	2½			
17	Wy.	WI	....		−0.43	0	...	3	R.		
17	Wy.	WI	+0.22		+0.25	0	6.0	3			
20	Wy.	EI	....		−1.13	0	...	4½	R.		
20	Wy.	EI	+0.04		−0.45	0	6.0	3½			
22	Fn.	EI	....		+0.31	0	...	..	R.		
22	Fn.	EI	+0.10		+0.42	0	5.5	2½			
30	Fn.	EI	−0.03		−0.15	0	5.5	3			
Dec. 1	Wy.	EI	....		+0.67	0	...	3	R.		
1	Wy.	EI	+0.15		+0.16	0	5.5	3			
4	Hd.	EI	....		+0.07	0	...	3	R.		
4	Hd.	EI	+0.41		−0.81	0	6.0	3			
6	Fn.	WI	+0.16		−0.13	0	5.5	3½			
7	Wy.	WI	+0.03		−0.54	0	5.5	2½			
8	Hd.	WI	+0.27		−0.50	0	6.0	3			
9	Hd.	WI	−0.34		−0.38	0	5.5	3			
1916											
Nov. 7	Wy.	EI	+0.12		−0.06	0	6.5	3½			
10	Fn.	EI	+0.02		−0.48	0	6.0	3			
16	Wy.	WI	−0.11		−0.18	0	6.0	3			
21	Hd.	WI	+0.06		+0.07	0	5.8	3			
24	Fn.	WI	+0.43		−0.17	0	5.5	3			
27	Wy.	WI	+0.01		+0.15	0	5.5	4			
1917											
Nov. 19	Hd.	WII	+0.01		+0.28	0	6.5	2½			
Mean	1914.53		+0.029		−0.14						
	1914.40										
Corr			−0.081		+0.46						

Piazzi X 64

			h m s	° ′ ″			
1912							
Apr. 20	Fn.	WII	10 20 30.694	+9 14 32.95	0	5.8	2
23	Hd.	WII	30.724	33.90	0	6.0	--
27	R.	EII	30.697	32.03	0	---	5
May 1	R.	EII	30.720	33.07	0	5.5	1
1915							
Dec. 23	Hd.	WI	30.712	32.74	0	6.0	3
1916							
Jan. 8	Fn.	EI	30.756	33.47	0	6.0	3½
14	Hd.	EI	30.706	33.66	0	6.0	2½
Feb. 9	Hd.	WI	30.682	32.99	0	6.0	2½
Mean------	1914.18		10 20 30.711	+9 14 33.10			
Corr----------			−0.081	−0.21			

Lacaille 4286

			h m s	° ′ ″			
1913							
Jan. 21	R.	EII	10 21 14.811	−28 44 12.50	0	7.0	2½
29	Fn.	WII	14.759	12.42	0	8.0	3½
Feb. 4	R.	WII	14.818	11.62	0	7.5	3
25	R.	EII	14.769	11.72	0	7.5	2
1914							
Mar. 24	Wy.	EI	14.710	12.22	0	7.5	3
Apr. 3	Wy.	WI	14.700	13.00	0	7.5	2½
5	Hd.	WI	14.784	12.17	0	7.5	3
13	Fn.	EI	14.796	12.66	0	7.5	3
Mean------	1913.68		10 21 14.768	−28 44 12.29			
Corr----------			−0.081	+0.01			

μ Hydræ

			h m s	° ′ ″			
			10 21 44.199	−16 22 35.75			
1912							
Apr. 6	R.	EII	+0.037	−0.86	0	---	5
8	Fn.	WII	−0.002	−0.36	I	3.7	3
9	Hd.	WII	−0.016	−1.06	I	3.4	3½
19	Hd.	EII	+0.023	−0.24	I	3.4	3
1915							
Apr. 21	An.	WI	+0.026	−0.19	I	---	3
24	An.	WI	+0.019	−0.55	I	4.9	2½
May 2	Hd.	EI	+0.045	+0.35	0	---	2
5	Hd.	EI	+0.056	−0.44	I	3.9	3
Mean------	1913.80		+0.024	−0.42			
Corr----------			−0.081	−0.11			

Fedorenko 1685

			h m s	° ′ ″			
1912							
Dec. 19	R.	EII	10 21 46.30	+60 3 22.33	0	7.0	3
21	R.	EII	46.31	23.12	0	7.0	1½
22	R.	WII	46.29	22.70	0	7.0	2
28	R.	WII	46.31	22.52	0	7.0	1½
1914							
Jan. 9	R.	EI	46.27	21.25	0	6	5 2
27	R.	WI	46.28	22.48	0	7.5	2½
28	Fn.	WI	46.25	22.56	0	7.0	3
Feb. 7	Wy.	EI	46.35	22.59	0	6.0	2½
Mean------	1913.52		10 21 46.295	+60 3 22.44			
Corr----------			−0.081	−0.32			

31 Leonis Minoris

			h m s	° ′ ″			
			10 22 40.977	+37 10 6.71			
1912							
Dec. 30	Fn.	WII	−0.034	+0.52	I	3.9	2
1913							
Jan. 14	R.	WII	−0.039	+0.42	I	3.9	1
18	R.	EII	−0.043	+0.47	I	3.9	1½
19	R.	EII	−0.030	+0.74	I	4.4	1
1914							
Jan. 29	Wy.	WI	+0.044	+0.23	I	4.4	3

			s	″			
1914							
Jan. 31	Fn.	WI	−0.004	+1.12	0	5.0	2
Feb. 9	Hd.	EI	−0.001	+0.57	I	3.9	3
Mar. 18	Hd.	EI	−0.007	+0.79	I	4.4	3
1915							
Mar. 29	Fn.	EI	−0.010	----	I	4.4	3
Apr. 1	Fn.	EI	+0.006	----	0	5.0	2
15	Hd.	WI	−0.058	----	I	3.4	2
19	Fn.	WI	+0.013	----	0	---	2
May 6	Fn.	EI	−0.051	----	I	3.9	2
1916							
Mar. 10	Fn.	WI	−0.031	----	0	5.5	2½
1917							
Mar. 30	Fn.	WI	+0.023	----	0	4.5	2
May 3	Hd.	EI	−0.051	----	I	4.4	2
Mean------	1914.74		−0.017	+0.61			
	1913.58						
Corr----------			−0.081	−0.26			

α Antliæ

			h m s	° ′ ″			
			10 23 1.897	−30 36 34.49			
1912							
Feb. 14	R.	EII	+0.096	+0.87	0	---	5
23	Hd.	WII	+0.013	+1.65	0	5.5	5
28	R.	WII	+0.045	+0.86	0	5.5	3
Mar. 10	Fn.	EII	+0.005	+1.75	0	5.1	3½
1915							
Apr. 7	An.	EI	+0.025	+1.17	I	5.4	2½
8	Hd.	EI	+0.072	+0.52	I	4.9	3½
12	Hd.	WI	+0.143	+1.83	0	---	4
13	Fn.	WI	+0.052	+2.51	0	4.5	3
Mean------	1913.71		+0.056	+1.40			
Corr----------			−0.081	+0.04			

Weisse$_2$ X 408

			h m s	° ′ ″			
1913							
Jan. 25	R.	EII	10 23 36.859	+16 12 55.24	0	7.5	2½
30	R.	WII	36.831	54.41	0	7.5	3½
Feb. 8	R.	WII	36.853	54.77	0	7.5	2½
Mar. 6	Hd.	EII	36.839	54.69	0	7.5	3
Dec. 26	Fn.	WI	36.851	54.93	0	7.0	2½
29	Hd.	WI	36.798	54.88	0	7.0	3
1914							
Jan. 5	Hd.	EI	36.823	55.10	0	7.5	2
8	Hd.	EI	36.806	55.36	0	---	3
Mean------	1913.56		10 23 36.832	+16 12 54.92			
Corr----------			−0.081	−0.22			

Weisse$_2$ X 437

			h m s	° ′ ″			
1912							
Mar. 7	Fn.	WII	10 24 51.131	+29 2 30.61	0	---	--
13	Fn.	EII	51.096	31.25	0	7.0	2
16	Fn.	EII	51.120	31.17	0	---	--
25	Fn.	WII	51.108	30.82	0	6.5	2
1915							
Apr. 1	Fn.	EI	51.081	31.19	0	7.5	2
6	Wy.	EI	51.059	30.96	0	7.0	2
14	An.	WI	51.028	31.18	0	7.5	1½
15	Hd.	WI	51.002	31.23	0	6.5	2
Mean------	1913.74		10 24 51.078	+29 2 31.05			
Corr----------			−0.081	−0.25			

36 Ursæ Majoris

			h m s	° ′ ″			
			10 24 52.461	+56 26 32.30			
1912							
Mar. 17	R.	EII	−0.023	+0.67	0	5.5	3
31	Hd.	WII	+0.017	+0.22	I	4.7	3
Apr. 2	Hd.	WII	+0.027	−0.43	0	---	5
4	Fn.	EII	+0.034	+0.51	0	---	2

				s	″				
1915									
Feb.	10	Hd.–An.	EI	-----	+0.53	I	4.9	2	
	17	Fn.–Wy.	EI	-----	−0.13	0	5.5	2	
	18	Hd.–An.	EI	-----	+0.28	0	---	3	R.
	19	Fn.–Wy.	EI	-----	+0.26	0	---	2	R.
	20	An.–Hd.	WI	-----	+0.81	0	6.0	2½	
	21	An.–Hd.	WI	-----	+0.72	0	---	3	R.
Mar.	1	Wy.–Fn.	WI	-----	+0.01	0	---	--	R.
	8	Wy.–Fn.	WI	-----	+0.41	I	3.9	2½	
	9	Wy.–Fn.	WI	-----	+0.63	0	---	3½	R.
	9	Wy.–Fn.	WI	-----	+0.40	0	5.0	3	
	30	Wy.	EI	+0.047	+0.40	0	- -	3	
	31	An.	EI	+0.029	−0.01	I	4.9	2½	
Apr.	17	An.	WI	−0.030	+0.80	I	4.9	2	
	19	Fn.	WI	−0.106	+1.11	0	---	2	
1916									
Mar.	23	Hd.–Wy.	WI	-----	+1.65	I	4.9	2	
	24	Hd.–Wy.	WI	-----	+0.34	0	---	2	R.
	31	Hd.–Wy.	EI	-----	+0.21	0	5.5	2½	
Apr.	10	Hd.–Wy.	EI	-----	+0.15	0	---	2	R.
	15	Hd.–Fn.	EI	-----	+0.09	I	4.7	2	
	18	Hd.–Fn.	EI	-----	+0.39	0	---	3	R.
	19	Hd.–Fn.	WI	-----	+0.77	0	---	3	R.
	20	Hd.–Wy.	WI	-----	+0.96	0	5.5	3½	
Mean		1913.76		−0.001	+0.48				
		1914.76							
Corr				−0.081	−0.30				

29 Sextantis

				h m s	° ′ ″				
1913									
Feb.	13	R.	WII	10 24 54.495	−2 16 41.12	0	---	2	
	14	Fn.	WII	54.470	42.07	0	5.5	3	
	19	Fn.	EII	54.425	41.77	0	6.0	3	
Mar.	7	Fn.	EII	54.459	40.81	0	5.7	2½	
1914									
Mar.	12	Fn.	WI	54.506	41.33	0	6.0	2½	
	13	Wy.	WI	54.503	42.14	0	6.0	2	
	20	Wy.	EI	54.453	41.57	0	6.0	3	
	23	Fn.	EI	54.469	41.01	0	5.5	2½	
Mean		1913.67		10 24 54.473	−2 16 41.48				
Corr				−0.081	−0.17				

9 H. Draconis

				h m s	° ′ ″				
				10 27 28.399	+76 10 37.19				
1913									
Feb.	15	R.	WII	−0.06	+0.13	0	5.5	2	
Mar.	5	Fn.	EII	+0.01	+0.40	0	---	2½	
	11	Hd.	EII	0.00	−0.36	I	4.9	2	
	17	Fn.	WII	−0.21	+0.40	0	5.5	3	
1914									
Jan.	29	Wy.	WI	−0.12	+0.10	0	5.0	3½	
	31	Fn.	WI	−0.04	+0.43	0	5.0	2	
Feb.	7	Wy.	EI	−0.06	+0.42	0	5.5	3	
Mar.	18	Hd.	EI	+0.08	−0.20	I	---	3	
Mean		1913.65		−0.050	+0.16				
Corr				−0.081	−0.35				

9 H. Draconis s. p.

				h m s	° ′ ″				
				10 27 28.402	+76 10 37.19				
1911									
Aug.	22	R.	EII	−0.26	−0.22	0	5.2	2½	
Sept.	26	Hd.	EII	−0.08	+0.75	0	5.0	4½	
Oct.	12	R.	WII	−0.09	−1.32	0	5.5	4	
	13	Hd.	WII	+0.01	−0.24	0	5.5	3½	
1914									
Oct.	17	An.	EI	----	−1.01	0	5.5	4	
	23	Fn.	EI	−0.17	−0.05	0	5.0	3	
	30	Hd.	EI	−0.03	−0.78	0	---	4	

				s	″				
1914									
Nov.	2	Fn.	WI	+0.02	−0.53	0	5.5	3	
	3	An.	WI	----	−1.24	0	5.5	4½	
	4	Hd.	WI	−0.05	−0.27	0	5.5	3½	
Mean		1913.28		−0.081	−0.49				
		1913.59							
Corr				−0.081	+0.52				

Groombridge 1658

				h m s	° ′ ″				
1912									
Apr.	9	Hd.	WII	10 27 59.124	+40 53 20.45	I	3.9	3	
	10	R.	WII	59.105	20.27	0	5.5	2½	
	16	Hd.	EII	59.083	19.92	0	---	2	
	19	Hd.	EII	59.124	20.40	I	4.4	3	
1915									
Dec.	21	Hd.	WI	59.064	20.01	I	4.9	2	
	22	Fn.	WI	59.049	19.95	0	5.0	2	
1916									
Jan.	3	Wy.	EI	59.067	19.70	I	4.9	3	
	7	Wy.	EI	59.108	19.60	0	5.5	2½	
Mean		1914.14		10 27 59.090	+40 53 20.04				
Corr				−0.081	−0.27				

ρ Leonis

				h m s	° ′ ″				
				10 28 4.425	+9 46 12.17				
1911				s	″	″			
Nov.	*15*	*Hd.*	*EII*	*+0.009*	*+0.10*	*+0.10*	*0*	---	*2*
	16	*Hd.*	*EII*	-----	*−0.10*	*−0.03*	*0*	---	*1*
1912									
Feb.	14	R.	EII	+0.031		----	I	4.4	2½
Apr.	8	Fn.	WII	+0.029		----	I	3.6	1½
	20	Fn.	WII	+0.019		−0.01	I	3.7	3
	23	Hd.	WII	+0.024		+0.46	I	3.4	2
	25	Fn.	EII	−0.003		----	0	---	2
	27	R.	EII	+0.009		----	I	---	--
May	1	R.	EII	+0.020		−0.33	I	3.9	2
	2	Fn.	EII	+0.026		−0.33	I	3.7	2
Oct.	*30*	*Hd.*	*EII*	*+0.022*	*−0.44*	*−0.42*	*0*	---	*2*
Dec.	28	R.	WII	+0.032		----	0	---	--
1913									
Jan.	18	R.	EII	−0.002		----	I	3.9	2
	25	R.	EII	−0.016		−0.27	I	4.4	2½
	27	Fn.	EII	+0.029		−0.82	I	3.5	2½
	30	R.	WII	+0.060		----	I	3.9	3½
Feb.	4	R.	WII	+0.008		−0.77	I	4.4	2½
	8	R.	WII	+0.031		----	I	---	2
Mar.	20	R.	WII	+0.031		−0.70	I	4.4	2
	21	Fn.	WII	−0.004		−0.87	0	---	3½
	22	Hd.	WII	+0.013		+0.43	I	3.4	2
	24	Fn.	EII	+0.027		−0.35	0	4.5	3½
	27	R.	EII	−0.013		+0.44	I	3.9	3½
	28	Fn.	EII	+0.001		+0.14	I	3.9	1½
	29	Hd.	EII	+0.012		−0.77	I	3.4	2
	31	Fn.	EII	+0.001		−0.57	I	3.7	2½
Apr.	1	Hd.	EII	+0.004		+0.90	I	2.9	3½
	5	Hd.	WII	+0.010		+0.16	I	3.4	3
	7	Fn.	WII	−0.005		−0.79	I	3.7	2
	8	Hd.	WII	+0.010		−0.42	I	---	2
	22	Fn.	EII	+0.040		+0.55	I	3.5	2
1914									
Jan.	17	Wy.	WI	+0.049		−0.71	0	4.0	2½
Feb.	2	Hd.	WI	−0.009		----	I	4.9	3
	9	Hd.	EI	+0.036		----	I	3.4	2
	17	Fn.	WI	+0.030		----	I	3.9	3
Mar.	14	Hd.	WI	+0.014		−0.09	0	---	3½
	22	Wy.	EI	+0.036		----	0	---	3
	24	Wy.	EI	−0.019		----	I	3.9	2½
	26	Fn.	EI	−0.001		----	I	3.9	2½
Apr.	3	Wy.	WI	+0.018		−0.15	I	3.4	2
	5	Hd.	WI	+0.019		----	I	3.4	2
	6	Fn.	WI	+0.026		−0.86	I	3.9	2
	9	Fn.	WI	+0.008		−1.31	I	3.9	2
	10	Wy.	WI	+0.005		−0.35	I	3.9	2
	13	Fn.	EI	+0.023		+0.29	I	3.9	2

				s	"	"			
1914									
Apr.	17	Wy.	EI	+0.017		+0.27	I	3.9	3
	20	Wy.	EI	−0.002		+0.14	I	---	3
	21	Hd.	EI	+0.036		+0.44	I	---	2
May	7	Wy.	WI	−0.016		−0.17	0	---	3
Oct.	*11*	*Hd.*	*WI*	*+0.046*	----	----	*0*	---	*3*
	18	*Hd.*	*EI*	*+0.035*	*−0.55*	*−0.53*	*0*	---	*2½*
	20	*An.*	*EI*	*−0.006*	*+0.32*	*+0.40*	*0*	---	*3½*
	21	*Hd.*	*EI*	*+0.027*	*−0.88*	*−0.87*	*0*	---	*3*
	28	*Fn.*	*EI*	-----	*−0.94*	*−0.87*	*0*	---	*3*
	29	*Hd.*	*EI*	*+0.006*	*−0.50*	*−0.50*	*0*	---	*3*
	30	*An.*	*EI*	*−0.032*	*−0.07*	*−0.04*	*0*	---	*3*
Nov.	*1*	*Wy.*	*WI*	-----	*−1.20*	*−1.33*	*0*	---	*3½*
	2	*An.*	*WI*	*−0.011*	----	----	*0*	---	*3*
	17	*Hd.*	*EI*	*−0.016*	*+0.27*	*+0.19*	*I*	---	*2*
1915									
Apr.	13	Fn.	WI	+0.002		----	I	3.9	2½
	21	An.	WI	+0.012		----	I	---	2½
	24	An.	WI	+0.025		----	I	4.9	2
	30	Wy.	EI	+0.018		----	I	---	3
May	2	Hd.	EI	+0.022		+0.69	0	---	2
	5	Hd.	EI	0.000		+0.35	I	3.4	2
	6	Fn.	EI	+0.017		+0.04	I	---	2
	8	Hd.	EI	−0.017		+0.17	I	3.4	3
	10	Hd.	EI	+0.001		+0.57	I	4.4	2
Oct.	*7*	*Hd.*	*WI*	*−0.008*	----	----	*0*	---	*3*
	24	*Hd.*	*WI*	*+0.030*	*−0.79*	*−0.80*	*0*	---	*3*
	27	*Hd.*	*EI*	*−0.003*	-----	----	*0*	---	*2½*
	29	*Wy.*	*EI*	*+0.035*	*−0.23*	*−0.25*	*0*	---	*3*
Dec.	8	Wy.	WI	+0.015		−0.33	I	3.9	3
	23	Hd.	WI	+0.019		−0.67	I	4.4	3½
1916									
Jan.	8	Fn.	EI	−0.020		−0.48	I	4.4	3
	14	Hd.	EI	+0.018		+0.21	I	3.4	2
	20	Wy.	EI	+0.010		----	I	---	3
	23	Fn.	EI	+0.035		−0.33	I	3.9	2
	25	Hd.	EI	+0.019		−0.02	I	3.9	2
Feb.	3	Fn.	EI	+0.017		+0.12	I	3.9	2½
	9	Hd.	WI	−0.019		−0.47	I	4.4	3
	11	Fn.	WI	+0.018		+0.11	0	---	3
	15	Hd.	WI	+0.011		−0.03	I	---	3
	29	Hd.	WI	+0.029		+0.40	I	3.9	2½
Mar.	3	Hd.	WI	+0.015		----	0	---	3
	4	Wy.	WI	+0.024		−0.30	0	---	3½
	10	Fn.	WI	+0.004		+0.57	I	4.4	3
	11	Wy.	WI	−0.001		−0.28	I	4.4	2
Mean			1914.28	+0.014		−0.12			
			1914.39						
Corr				−0.081		−0.21			

Bradley 1465

				h	m	s	°	′	″			
1912												
Dec.	19	R.	EII	10	28	22.357	+35	27	8.58	0	6.5	2
	21	R.	EII			22.356			9.26	0	6.0	2
	22	R.	WII			22.357			8.91	0	6.0	3
	30	Fn.	WII			22.343			9.39	0	5.8	2
1914												
Jan.	9	R.	EI			22.330			7.71	0	5.5	3
	15	Hd.	EI			22.318			8.66	0	6.0	2
	27	R.	WI			22.400			9.38	0	6.0	2
	28	Fn.	WI			22.347			8.97	0	6.0	3
Mean			1913.52	10	28	22.351	+35	27	8.86			
Corr						−0.081			−0.26			

37 Ursæ Majoris

				h	m	s	°	′	″			
1913												
Jan.	14	R.	WII	10	29	22.416	+57	32	47.51	I	4.9	1
	19	R.	EII			22.385			47.79	I	4.9	1
	21	R.	EII			22.347			47.79	0	5.5	2½
	29	Fn.	WII			22.388			47.44	0	5.6	2
Dec.	26	Fn.	WI			22.433			48.14	0	5.0	2½
	29	Hd.	WI			22.414			48.49	0	5.5	3
1914												
Jan.	5	Hd.	EI			22.407			47.50	I	4.9	2
	8	Hd.	EI			22.404			48.73	0	---	3
Mean			1913.53	10	29	22.399	+57	32	47.92			
Corr						−0.081			−0.31			

Weisse$_2$ X 524

				h	m	s	°	′	″			
1912												
Apr.	3	R.	WII	10	29	29.420	+22	3	31.09	0	7.5	2
	6	R.	EII			29.392			30.16	0	---	4
	8	Fn.	WII			29.427			31.15	0	7.3	1½
	27	R.	EII			29.371			29.91	0	---	1½
1915												
Apr.	7	An.	EI			29.420			30.04	0	7.0	2
	8	Hd.	EI			29.446			29.83	0	7.0	2
	13	Fn.	WI			29.395			30.56	0	7.0	2½
	14	An.	WI			29.401			30.20	0	7.0	1½
Mean			1913.78	10	29	29.409	+22	3	30.37			
Corr						−0.081			−0.23			

44 Hydræ

				h	m	s	°	′	″			
1913												
Feb.	7	Fn.	WII	10	29	44.049	−23	16	53.03	0	6.2	3½
	8	R.	WII			43.986			52.40	0	5.5	2½
	19	Fn.	EII			43.948			53.56	0	6.0	3½
	25	R.	EII			44.001			52.12	0	5.5	2
1914												
Feb.	2	Hd.	WI			44.020			52.74	0	7.0	3
	17	Fn.	WI			44.019			52.15	0	6.0	3½
Mar.	20	Wy.	EI			43.923			51.29	0	5.5	3½
	23	Fn.	EI			43.981			52.01	0	5.5	2½
Mean			1913.64	10	29	43.991	−23	16	52.41			
Corr						−0.081			−0.05			

Weisse$_1$ X 489

				h	m	s	°	′	″			
1912												
Feb.	14	R.	EII	10	30	27.749	+2	40	11.33	0	7.0	4
	23	Hd.	WII			27.693			11.34	0	7.0	3
	28	R.	WII			27.717			11.34	0	7.0	2
Mar.	10	Fn.	EII			27.733			11.66	0	6.9	3
1915												
Apr.	1	Fn.	EI			27.747			10.96	0	7.5	2
	6	Wy.	EI			27.724			11.58	0	7.0	3½
	15	Hd.	WI			27.745			11.11	0	7.0	2
	17	An.	WI			27.760			10.70	0	6.5	3
Mean			1913.71	10	30	27.734	+2	40	11.25			
Corr						−0.081			−0.19			

B. D.+39° 2366

				h	m	s	°	′	″			
1917												
Mar.	30	Fn.	WI	10	30	-----	+38	59	48.36	0	8.0	2½
Apr.	9	Hd.	WI			-----			48.85	0	7.5	2
	20	Wy.	EI			-----			47.47	0	7.5	2½
	23	Wy.	EI			-----			47.80	0	8.0	2½
Mean			1917.28	10	30	-----	+38	59	48.12			
Corr						-----			−0.27			

Yarnall 4514

				h	m	s	°	′	″			
1913												
Feb.	13	R.	WII	10	32	3.563	−11	44	50.76	0	---	2½
	14	Fn.	WII			3.546			51.49	0	6.0	3½
Mar.	7	Fn.	EII			3.532			50.60	0	6.4	3
	11	Hd.	EII			3.526			51.04	0	6.0	2
1914												
Mar.	12	Fn.	WI			3.558			51.09	0	6.0	2½
	13	Wy.	WI			3.650			52.41	0	6.0	2
	24	Wy.	EI			3.537			51.19	0	6.0	3
	26	Fn.	EI			3.550			52.19	0	6.0	3
Mean			1913.68	10	32	3.558	−11	44	51.35			
Corr						−0.081			−0.13			

Weisse$_1$ X 532

			h m s	° ′ ″			
1912							
Mar. 17	R.	EII	10 32 30.617	−8 22 18.50	0	8.0	4
18	Fn.	EII	30.650	18.03	0	7.2	3
25	Fn.	WII	30.676	18.38	0	7.0	3
26	Hd.	WII	30.624	18.82	0	7.0	3
1915							
Dec. 22	Fn.	WI	30.637	19.44	0	7.5	3
23	Hd.	WI	30.641	20.19	0	7.5	3½
1916							
Jan. 3	Wy.	EI	30.594	19.17	0	7.5	3½
7	Wy.	EI	30.571	18.88	0	7.5	3
Mean	1914.11		10 32 30.626	−8 22 18.93			
Corr			−0.081	−0.15			

37 Leonis Minoris

			h m s	° ′ ″			
1915							
Apr. 30	Wy.	EI	10 33 39.532	+32 26 -----	0	---	3
May 6	Fn.	EI	39.542	-----	0	---	2
1916							
Mar. 10	Fn.	WI	39.522	-----	0	5.0	2½
Mean	1915.62		10 33 39.532	+32 26 -----			
Corr			−0.081	-----			

φ Hydræ

			h m s	° ′ ″			
1912							
Dec. 19	R.	EII	10 34 11.844	−16 24 33.06	0	5.5	3
21	R.	EII	11.776	31.78	0	6.0	3
22	R.	WII	11.817	33.44	0	6.5	3½
28	R.	WII	11.821	33.31	I	4.4	2½
1913							
Dec. 29	Hd.	WI	11.746	32.67	0	5.5	4
1914							
Jan. 5	Hd.	EI	11.802	32.55	0	6.0	3
8	Hd.	EI	11.818	32.51	0	---	3
27	R.	WI	11.812	32.92	0	6.0	4
Mean	1913.50		10 34 11.804	−16 24 32.78			
Corr			−0.081	−0.11			

Bradley 1458

			h m s	° ′ ″			
1912							
Apr. 8	Fn.	WII	10 34 39.78	+80 53 49.73	0	6.5	1½
9	Hd.	WII	39.49	50.33	0	6.5	3
11	Fn.	EII	39.38	49.81	0	6.5	3½
16	Hd.	EII	39.56	49.62	0	7.0	3
1915							
Apr. 6	Wy.	EI	39.66	50.42	0	7.0	2½
7	An.	EI	39.57	50.17	0	7.0	2½
13	Fn.	WI	39.61	50.31	0	6.5	3
14	An.	WI	39.65	49.70	0	6.5	2
Mean	1913.77		10 34 39.588	+80 53 50.01			
Corr			−0.081	−0.37			

Bradley 1458 s. p.

			h m s	° ′ ″			
1911							
Sept. 26	Hd.	EII	10 34 39.55	+80 53 49.34	0	6.8	4
Oct. 6	Fn.	EII	39.90	48.49	0	7.3	4½
13	Hd.	WII	39.48	49.09	0	6.5	--
16	Fn.	WII	39.34	48.82	0	6.6	3
1915							
Aug. 12	Fn.	EI	39.14	48.87	0	7.0	3
14	Wy.	EI	39.48	49.09	0	7.5	3
19	Fn.	WI	39.36	48.62	0	7.5	2½
Sept. 3	Hd.	WI	29.33	49.45	0	---	2
Mean	1913.70		10 34 39.448	+80 53 48.97			
Corr			−0.081	+0.47			

Oeltzen 11017

			h m s	° ′ ″			
1913							
Jan. 14	R.	WII	10 34 45.816	+47 18 37.59	0	7.0	1
18	R.	EII	45.771	37.52	0	7.5	2
19	R.	EII	45.810	37.42	0	7.0	1½
29	Fn.	WII	45.807	37.80	0	7.3	2½
1914							
Mar. 14	Hd.	WI	45.836	37.77	0	---	3
18	Hd.	EI	45.850	37.31	0	7.5	3
20	Wy.	EI	45.805	36.75	0	7.0	2½
Apr. 3	Wy.	WI	45.840	37.33	0	7.0	2
Mean	1913.64		10 34 45.817	+47 18 37.44			
Corr			−0.081	−0.28			

33 Sextantis

			h m s	° ′ ″			
			10 36 49.436	−1 16 5.30			
1912							
Mar. 2	R.	WII	+0.049	−1.16	0	7.0	2
7	Fn.	WII	+0.110	−0.74	0	6.6	2½
10	Fn.	EII	+0.050	−0.61	0	6.7	3
13	Fn.	EII	+0.057	−0.89	0	6.7	3
1915							
Mar. 31	An.	EI	+0.055	−1.91	0	7.0	3
Apr. 1	Fn.	EI	+0.053	−0.93	0	6.5	2
15	Hd.	WI	+0.062	−0.74	0	6.2	2½
17	An.	WI	+0.097	−1.27	0	6.5	3
1916							
Mar. 23	Hd.–Wy.	WI	-----	−0.56	0	6.5	2
24	Hd.–Wy.	WI	-----	−2.62	0	---	3 R.
31	Hd.–Wy.	EI	-----	−1.07	0	6.5	2½
Apr. 10	Hd.–Wy.	EI	-----	−1.74	0	---	2 R.
15	Hd.–Fn.	EI	-----	−1.21	0	6.0	2
18	Hd.–Fn.	EI	-----	−1.85	0	---	3 R.
20	Hd.–Wy.	WI	-----	−0.72	0	---	3½
Mean	1913.73		+0.067	−0.98			
	1914.57						
Corr			−0.081	−0.18			

Weisse$_1$ X 618

			h m s	° ′ ″			
1913							
Feb. 7	Fn.	WII	10 37 32.623	+10 49 36.57	0	7.5	3½
8	R.	WII	32.614	36.07	0	7.5	2½
25	R.	EII	32.641	36.81	0	6.5	2
Mar. 7	Fn.	EII	32.634	36.31	0	7.0	2½
1914							
Feb. 17	Fn.	WI	32.672	36.63	0	7.5	3
Mar. 12	Fn.	WI	32.616	36.34	0	7.0	2½
22	Wy.	EI	32.617	35.74	0	---	2½
23	Fn.	EI	32.615	36.49	0	7.0	2½
Mean	1913.66		10 37 32.629	+10 49 36.37			
Corr			−0.081	−0.21			

34 Sextantis

			h m s	° ′ ″			
1912							
Mar. 17	R.	EII	10 37 58.703	+4 3 13.03	0	7.5	4
18	Fn.	EII	58.714	13.05	0	7.1	3
25	Fn.	WII	58.695	13.53	0	6.8	2
26	Hd.	WII	58.696	13.23	0	6.5	3
1915							
Mar. 29	Fn.	EI	58.619	14.27	0	7.0	3
30	Wy.	EI	58.686	13.03	0	---	3
Apr. 19	Fn.	WI	58.697	13.32	0	---	3
21	An.	WI	58.676	13.08	0	7.5	2½
Mean	1913.74		10 37 58.686	+4 3 13.32			
Corr			−0.081	−0.19			

41 Leonis Minoris

			h m s	° ′ ″			
			10 38 31.473	+23 39 35.47			
1913							
Feb. 13	R.	WII	−0.033	−0.16	0	---	2½
14	Fn.	WII	+0.012	−0.06	0	5.0	2½

			s	″			
1913							
Feb. 19	Fn.	EII	+0.035	+0.25	0	5.0	2
Mar. 11	Hd.	EII	+0.029	+0.04	0	---	2
1914							
Jan. 9	R.	EI	+0.003	−0.55	0	5.5	2
15	Hd.	EI	−0.003	+0.07	0	---	3
17	Wy.	WI	+0.015	−0.06	0	5.0	2
28	Fn.	WI	−0.013	−0.27	0	5.5	2½
29	Wy.	WI	+0.029	−0.17	0	5.0	3
Mean	1913.65		+0.008	−0.10			
Corr			−0.081	−0.24			

Bradley 1487 [1]

			h m s	° ′ ″			
1912							
Mar. 31	Hd.	WII	10 38 40.712	+5 13 12.68	0	6.2	3
Apr. 3	R.	WII	40.671	13.40	0	6.0	3
6	R.	EII	40.694	12.36	0	---	4
25	Fn.	EII	40.701	12.27	0	---	2
1915							
Dec. 21	Hd.	WI	40.675	11.76	0	6.5	3
22	Fn.	WI	40.682	12.37	0	6.0	2½
1916							
Jan. 3	Wy.	EI	40.710	11.54	0	6.5	3½
8	Fn.	EI	40.701	12.29	0	6.0	3
Mean	1914.13		10 38 40.693	+5 13 12.33			
Corr			−0.081	−0.19			

Lalande 20729

			h m s	° ′ ″			
1913							
Jan. 14	R.	WII	10 40 9.280	−23 30 48.23	0	7.0	1
19	R.	EII	9.281	47.39	0	7.0	2½
25	R.	EII	9.276	47.20	0	7.0	2
Feb. 4	R.	WII	9.292	47.72	0	---	3
Dec. 26	Fn.	WI	9.396	47.23	0	7.0	3½
1914							
Jan. 5	Hd.	EI	9.311	47.51	0	7.0	3
8	Hd.	EI	9.250	47.05	0	---	3
27	R.	WI	9.314	46.91	0	8.0	3
Mean	1913.54		10 40 9.300	−23 30 47.40			
Corr			−0.081	−0.04			

42 Leonis Minoris

			h m s	° ′ ″			
			10 40 51.804	+31 9 23.54			
1912							
Apr. 10	R.	WII	+0.005	+0.18	0	5.5	2½
11	Fn.	EII	+0.011	−0.56	0	5.4	3
16	Hd.	EII	+0.006	−0.64	0	5.8	2
20	Fn.	WII	+0.032	+0.11	0	5.5	2
1915							
Apr. 7	An.	EI	+0.051	−0.22	0	5.5	2
8	Hd.	EI	+0.053	−0.39	I	4.9	2
13	Fn.	WI	−0.008	+0.34	0	5.5	2
14	An.	WI	−0.008	+0.17	I	5.4	1½
May 6	Fn.	EI	+0.031	----	0	---	2
1916							
Mar. 10	Fn.	WI	+0.041	----	0	6.0	2½
Mean	1914.18		+0.021	−0.13			
	1913.78						
Corr			−0.081	−0.25			

Bradley 1492

			h m s	° ′ ″			
1912							
Dec. 19	R.	EII	10 41 33.785	+19 21 58.56	0	5.5	2
22	R.	WII	33.760	58.75	0	5.5	2½
30	Fn.	WII	33.789	58.37	0	5.5	2
1913							
Jan. 18	R.	EII	33.760	57.88	0	5.5	2½
1914							
Jan. 31	Fn.	WI	33.762	59.29	0	5.5	2
Feb. 2	Hd.	WI	33.825	58.35	0	6.5	3
7	Wy.	EI	33.840	58.00	0	5.5	2½
9	Hd.	EI	33.780	57.70	0	6.0	3
Mean	1913.55		10 41 33.788	+19 21 58.36			
Corr			−0.081	−0.23			

Brisbane 3200

			h m s	° ′ ″			
1912							
Mar. 7	Fn.	WII	10 42 26.072	−25 34 31.29	0	7.3	3½
13	Fn.	EII	26.022	31.03	0	7.4	4
16	Fn.	EII	26.038	30.56	0	7.3	4
Apr. 8	Fn.	WII	26.060	30.68	0	7.3	3
1915							
Mar. 31	An.	EI	26.031	30.47	0	---	--
Apr. 6	Wy.	EI	25.949	30.10	0	7.5	3½
15	Hd.	WI	26.027	30.77	0	6.5	3
17	An.	WI	26.033	31.19	0	---	3½
Mean	1913.74		10 42 26.029	−25 34 30.76			
Corr			−0.081	−0.02			

Weisse 1 X 733

			n m s	° ′ ″			
1912							
Apr. 9	Hd.	WII	10 44 5.222	−1 29 1.00	0	6.0	3
10	R.	WII	5.207	0.46	0	6.0	3
25	Fn.	EII	5.237	0.26	0	---	-
27	R.	EII	5.206	2.43	0	6.0	4½
1915							
Mar. 29	Fn.	EI	5.224	0.27	0	6.0	3½
30	Wy.	EI	5.227	0.72	0	---	3
Apr. 21	An.	WI	5.232	1.16	0	---	3
24	An.	WI	5.219	1.47	0	6.0	3
Mean	1913.78		10 44 5.222	−1 29 0.97			
Corr			−0.081	−0.18			

l Leonis

			h m s	° ′ ″			
			10 44 31.690	+11 1 17.59			
1913							
Jan. 27	Fn.	EII	−0.007	+0.52	0	5.3	2½
29	Fn.	WII	−0.017	+0.21	0	5.6	2
Feb. 4	R.	WII	−0.023	+0.43	0	5.5	2½
19	Fn.	EII	+0.005	+0.10	0	5.5	2½
1914							
Feb. 17	Fn.	WI	+0.015	+0.55	0	6.0	3
Mar. 12	Fn.	WI	−0.035	+0.45	0	5.5	2
18	Hd.	EI	−0.005	+0.47	0	5.5	3
20	Wy.	EI	+0.006	+0.27	0	5.5	3
Mean	1913.64		−0.008	+0.38			
Corr			−0.081	−0.21			

Bradley 1501

			h m s	° ′ ″			
1913							
Feb. 7	Fn.	WII	10 44 57.080	+28 26 58.30	0	6.5	2½
8	R.	WII	57.121	57.82	0	6.0	2
28	Fn.	EII	57.151	57.90	0	6.5	2
Mar. 5	Fn.	EII	57.120	57.86	0	---	3
1914							
Mar. 14	Hd.	WI	57.139	58.49	0	---	3½
23	Fn.	EI	57.146	58.02	0	6.0	1½
24	Wy.	EI	57.128	57.75	0	6.0	2
Apr. 3	Wy.	WI	57.137	57.22	0	6.0	2
Mean	1913.68		10 44 57.128	+28 26 57.92			
Corr			−0.081	−0.25			

[1] Double; n. fol., component observed.

ν Hydræ

h m s 10 45 11.008 — ° ′ ″ −15 43 19.32

				s	″	″			
1911									
Nov.	*15*	*Hd.*	*EII*	*+0.056*	*−0.71*	*−0.68*	*0*	---	*3*
	16	*Hd.*	*EII*	-----	*−0.66*	*−0.57*	*0*	---	*2*
	22	*Fn.*	*EII*	-----[*−4.13*][1]		[*−3.89*][1]	*I*	---	*2*
1912									
Mar.	9	R.	EII	+0.071		----	I	3.9	2
	17	R.	EII	+0.061		----	I	4.4	4
	18	Fn.	EII	+0.117		−0.85	I	3.0	3
	25	Fn.	WII	+0.037		----	0	---	--
	26	Hd.	WII	+0.020		−0.47	I	2.9	3
	31	Hd.	WII	+0.029		−0.93	I	3.4	3
Apr.	2	Hd.	WII	+0.066		----	0	---	5
	6	R.	EII	+0.130		----	I	3.4	4
	16	Hd.	EII	+0.107		−1.27	I	---	3
	23	Hd.	WII	+0.012		−0.26	I	2.9	2
May	1	R.	EII	+0.076		−0.87	I	3.4	3
	2	Fn.	EII	+0.058		−1.24	I	3.6	3
	3	Hd.	EII	+0.014		−0.86	I	2.9	2
	4	R.	WII	+0.007		−0.51	I	---	3½
	9	Fn.	WII	+0.097		−0.95	I	2.9	3
	10	Hd.	WII	+0.043		−0.93	I	2.9	3
Dec.	19	R.	EII	+0.050		----	I	3.9	3½
	28	R.	WII	+0.065		----	I	3.4	2
1913									
Jan.	19	R.	EII	+0.068		----	I	3.4	2½
	25	R.	EII	+0.034		----	I	3.4	2
	30	R.	WII	+0.035		----	I	4.4	4½
Feb.	15	R.	WII	+0.067		−1.56	I	3.9	2
	25	R.	EII	+0.042		−0.43	I	3.4	2
Mar.	22	Hd.	WII	+0.039		−0.32	I	3.1	3
	24	Fn.	EII	+0.033		−1.22	I	3.9	4
	27	R.	EII	+0.075		−1.34	I	3.4	4
	28	Fn.	EII	+0.068		−0.29	I	3.3	2½
	29	Hd.	EII	+0.070		−0.75	I	2.9	3
	31	Fn.	EII	+0.067		−0.52	I	2.9	3
Apr.	1	Hd.	EII	+0.053		−0.88	I	2.7	3½
	2	Fn.	EII	+0.081		−1.64	I	3.6	3½
	5	Hd.	WII	+0.081		−1.01	I	3.1	3
	7	Fn.	WII	+0.093		−1.24	I	2.9	2
	8	Hd.	WII	+0.105		----	I	---	3
	21	Hd.	EII	+0.051		−1.16	I	2.9	3
	22	Fn.	EII	+0.014		−0.65	I	3.2	2½
	24	Hd.	EII	+0.031		−1.00	I	3.4	2
Dec.	29	Hd.	WI	+0.060		----	I	---	3½
1914									
Jan.	8	Hd.	EI	+0.062		----	0	---	3
	9	R.	EI	+0.107		−0.46	I	2.9	3
	15	Hd.	EI	+0.032		−0.78	0	---	3
	17	Wy.	WI	+0.069		----	I	---	--
	27	R.	WI	+0.057		----	I	3.9	3½
	28	Fn.	WI	−0.018		----	0	---	3½
	29	Wy.	WI	+0.069		−1.25	I	3.9	3½
Feb.	26	Hd.	EI	+0.081		−1.14	I	3.9	3½
	27	Fn.	EI	+0.142		−1.38	I	3.4	2½
Mar.	26	Fn.	EI	+0.118		−0.72	I	3.4	3
Apr.	4	Hd.	WI	+0.066		−0.44	I	3.4	3
	5	Hd.	WI	+0.071		+0.03	I	3.4	3
	6	Fn.	WI	+0.054		−1.57	I	3.4	2½
	8	Hd.	WI	+0.042		−0.15	I	2.9	3½
	9	Fn.	WI	+0.028		+0.16	I	3.4	2½
	10	Wy.	WI	+0.068		−0.57	I	2.9	2
	13	Fn.	EI	+0.065		−0.88	I	3.4	2½
	17	Wy.	EI	+0.038		−1.91	I	2.9	3
	21	Hd.	EI	+0.061		−0.69	I	3.9	2
	23	Wy.	EI	+0.035		−2.04	I	3.4	3
	27	Wy.	EI	+0.057		−0.99	I	2.9	3
	30	Wy.	WI	+0.058		−1.13	I	3.4	3½
May	2	Fn.	WI	+0.061		−1.79	I	3.4	2½
Oct.	*20*	*An.*	*EI*	*+0.060*	*−1.91*	*−1.81*	*0*	---	*4*
	21	*Hd.*	*EI*	*+0.116*	*−1.18*	*−1.18*	*0*	---	*3½*
	29	*Hd.*	*EI*	*+0.084*	*−1.05*	*−1.10*	*0*	---	*3*
	30	*An.*	*EI*	*+0.008*	*−1.27*	*−1.31*	*0*	---	*3½*
Nov.	*2*	*An.*	*WI*	*+0.045*	*−0.79*	*−0.64*	*0*	---	*3½*
	9	*An.*	*WI*	*+0.114*	*−0.61*	*−0.51*	*0*	---	*3½*
1915									
Apr.	19	Fn.	WI	+0.034		----	0	---	3
May	6	Fn.	EI	+0.081		−0.27	0	---	3
	8	Hd.	EI	+0.049		−1.46	I	2.9	3
	10	Hd.	EI	+0.075		−0.77	I	2.9	2½
	11	Fn.	EI	+0.074		−0.45	0	---	2½
	13	Hd.	WI	+0.019		−0.55	I	---	3
	14	Fn.	WI	+0.050		−0.32	0	---	2½
Oct.	*7*	*Hd.*	*WI*	*+0.074*	----	----	*0*	---	*3*
	24	*Hd.*	*WI*	*+0.065*	----	----	*0*	---	*3*
	27	*Hd.*	*EI*	*+0.103*	*−1.11*	*−1.03*	*0*	---	*3*
	29	*Wy.*	*EI*	*+0.032*	*−0.60*	*−0.57*	*0*	---	*3½*
Nov.	*2*	*Hd.*	*EI*	*+0.059*	*−1.27*	*−1.18*	*0*	---	*2*
Dec.	21	Hd.	WI	+0.051		−1.55	I	3.4	3
	22	Fn.	WI	+0.061		−1.13	I	3.4	3
1916									
Jan.	3	Wy.	EI	+0.087		−0.92	I	3.4	3½
	7	Wy.	EI	+0.063		−0.55	I	3.4	3½
	8	Fn.	EI	+0.044		+0.05	I	3.9	3½
	20	Wy.	EI	+0.061		−1.45	I	---	3
	25	Hd.	EI	+0.070		−1.16	I	3.4	2½
Feb.	3	Fn.	EI	+0.069		−1.39	I	3.4	2½
	7	Fn.	EI	+0.120		−1.07	I	3.9	3
	29	Hd.	WI	+0.111		−1.44	I	3.4	3
Mar.	11	Wy.	WI	+0.078		−1.61	I	3.9	2
	23	Hd.–Wy.	WI	-----		−3.02	I	---	2 R.
	24	Hd.–Wy.	WI	-----		−1.12	I	---	3
	31	Hd.–Wy.	EI	-----		−1.45	0	---	3½ R.
Apr.	10	Hd.–Wy.	EI	-----		−1.31	I	2.9	3
	15	Hd.–Fn.	EI	-----		−2.40	I	---	2½ R.
	18	Hd.–Fn.	EI	-----		−0.66	I	3.4	3
	19	Hd.–Fn.	WI	-----		−2.14	0	---	3
	20	Hd.–Wy.	WI	-----		−1.25	0	---	3½ R.
Mean			1913.90	+0.061		−0.94			
			1914.18						
Corr				−0.081		−0.11			

Piazzi X 171

h m s ° ′ ″

1912										
Mar.	7	Fn.	WII	10 47	8.406	+52 58	57.87	0	6.3	2½
	10	Fn.	EII		8.368		57.83	0	---	3
	17	R.	EII		8.372		57.84	0	7.0	2
	25	Fn.	WII		8.444		58.26	0	---	2
1915										
Apr.	8	Hd.	EI		8.408		57.45	0	6.0	2
	13	Fn.	WI		8.352		58.36	0	6.0	2
	14	An.	WI		8.345		56.73	0	5.5	1½
May	2	Hd.	EI		8.332		58.23	0	---	2
Mean			1913.75	10 47	8.378	+52 58	57.82			
Corr					−0.081		−0.30			

B. D. +39° 2386

h m s ° ′ ″

1917										
Mar.	30	Fn.	WI	10 47	-----	+38 48	48.66	0	8.0	2
Apr.	9	Hd.	WI		-----		49.99	0	7.0	2
	30	Hd.	EI		-----		48.98	0	8.0	3
May	1	Fn.	EI		-----		48.80	0	7	5 3
Mean			1917.29	10 47	-----	+38 48	49.11			
Corr					-----		−0.27			

46 Leonis Minoris

h m s ° ′ ″

				10 48	16.952	+34 42	0.22			
1913					s		″			″
Jan.	14	R.	WII		+0.051		−0.42	I	3.4	1
	19	R.	EII		+0.019		−0.04	I	3.4	1½
	25	R.	EII		−0.015		+0.26	I	4.4	2
	30	R.	WII		−0.020		−0.39	0	---	3½
Feb.	4	R.	WII		+0.034		−0.01	I	3.9	2
1914										
Jan.	17	Wy.	WI		+0.062		−0.08	I	3.9	2
	27	R.	WI		+0.014		+0.50	I	4.4	3

[1] Micrometer reading doubtful.

				s	″	″			
1914									
Jan.	28	Fn.	WI	+0.045		+0.36	I	3.9	3
Feb.	7	Wy.	EI	−0.005		−0.29	I	3.9	2
	9	Hd.	EI	−0.007		−0.66	I	3.4	3
1917									
May	*18*	*Hd.*	*WI*	*+0.014*	----	----	0	---	3
Mean		1913.58		+0.018		−0.08			
Corr				−0.081		−0.26			

ω Ursæ Majoris

				h	m	s	°	′	″			
1912												
Mar.	13	Fn.	EII	10	48	48.204	+43	40	9.60	0	5.0	2
	16	Fn.	EII			48.201			9.70	0	5.0	2½
Apr.	2	Hd.	WII			48.302			10.06	0	5.5	4
	8	Fn.	WII			48.219			10.03	I	4.2	1½
1915												
Mar.	29	Fn.	EI			48.269			-----	0	5.0	3
	31	An.	EI			48.296			-----	I	4.9	2½
Apr.	6	Wy.	EI			48.277			9.33	I	4.9	2½
	7	An.	EI			48.323			8.94	I	4.9	2
	15	Hd.	WI			48.163			10.40	I	4.9	3
	17	An.	WI			48.196			9.83	0	---	--
	19	Fn.	WI			48.238			-----	0	---	2
	30	Wy.	EI			48.212			-----	0	---	2½
Mean		1914.26		10	48	48.242	+43	40	9.74			
		1913.75										
Corr						−0.081			−0.28			

Lalande 20978

				h	m	s	°	′	″			
1912												
Apr.	11	Fn.	EII	10	49	49.741	−13	16	44.94	0	---	3
	16	Hd.	EII			49.691			44.49	0	---	3
	20	Fn.	WII			49.675			43.91	0	6.5	3
	23	Hd.	WII			49.635			43.91	0	6.2	2½
1915												
Apr.	24	An.	WI			49.681			44.55	0	6.0	3
May	6	Fn.	EI			49.693			43.83	0	---	3
	8	Hd.	EI			49.687			44.18	0	6.0	3
	13	Hd.	WI			49.713			44.04	0	6.5	3
	14	Fn.	WI			49.661			45.00	0	---	3
Mean		1913.99		10	49	49.686	−13	16	44.32			
Corr						−0.081			−0.12			

54 Leonis [1]

				h	m	s	°	′	″				
				10	50	44.523	+25	13	47.96				
1913													
Jan.	27	Fn.	EII			+0.117			−0.39	0	4.5	2½	
	29	Fn.	WII			+0.049			+0.71	I	4.4	2	
Feb.	7	Fn.	WII			+0.043			+0.12	I	4.4	2½	
	25	R.	EII			+0.085			−0.54	I	4.4	2	
1914													
Feb.	17	Fn.	WI			+0.067			+0.95	0	4.5	3	
	26	Hd.	EI			+0.045			−0.16	I	4.4	2½	
	27	Fn.	EI			+0.046			−0.05	0	---	1½	
Mar.	13	Wy.	WI			+0.081			−0.23	I	3.9	2	
1916													
Mar.	23	Hd.–Wy.	WI			-----			+0.36	I	4.4	2	
	24	Hd.–Wy.	WI			-----			−0.84	0	---	3	R.
	31	Hd.–Wy.	EI			-----			−0.55	I	4.9	2	
Apr.	10	Hd.–Wy.	EI			-----			−0.79	I	---	2	R.
	15	Hd.–Fn.	EI			-----			−0.08	I	4.4	2	
	18	Hd.–Fn.	EI			-----			−0.79	0	---	3	R.
	19	Hd.–Fn.	WI			-----			+0.37	0	---	3	R.
	20	Hd.–Wy.	WI			-----			+0.40	0	---	3½	
Mean		1913.63				+0.067			+0.05				
		1914.51											
Corr						−0.081			−0.24				

[1] Double; n. pr. component observed.

Bradley 1517

				h	m	s	°	′	″			
1912												
Mar.	18	Fn.	EII	10	51	4.671	+1	13	1.87	0	6.4	3
Apr.	6	R.	EII			4.621			1.26	0	6.5	4
	9	Hd.	WII			4.634			0.63	0	6.5	3
	10	R.	WII			4.635			1.48	0	6.0	4½
1915												
Mar.	29	Fn.	EI			4.684			1.91	0	6.0	3½
	30	Wy.	EI			4.639			1.99	0	---	3
Apr.	19	Fn.	WI			4.684			1.33	0	---	3
	21	An.	WI			4.737			1.98	0	---	3
Mean		1913.76		10	51	4.663	+1	13	1.56			
Corr						−0.081			−0.18			

ι Antliæ

				h	m	s	°	′	″			
				10	52	-----	−36	39	14.65			
1917												
Mar.	30	Fn.	WI			-----			−1.94	0	---	4
Apr.	10	Fn.	WI			-----			−1.05	0	---	4
	16	Fn.	WI			-----			+1.31	0	---	4
	30	Hd.	EI			-----			−0.54	0	---	4
May	1	Fn.	EI			-----			−0.88	0	---	4½
	3	Hd.	EI			-----			−1.51	0	---	3½
	11	Wy.	WI			-----			−0.48	0	---	4½
1918												
May	2	Fn.	EII			-----			+0.51	0	---	4
	8	Fn.	EII			-----			−0.41	0	---	3½
Mean		1917.54				-----			−0.55			
Corr						-----			+0.18			

Groombridge 1706

				h	m	s	°	′	″			
				10	52	46.899	+78	15	9.04			
1913												
Feb.	8	R.	WII			+0.30			−0.58	0	6.0	2½
	13	R.	WII			−0.03			+0.87	0	---	2
Mar.	24	Fn.	EII			+0.07			[−2.09]	0	6.5	3½
	28	Fn.	EII			−0.12			−0.02	0	---	1½
1914												
Jan.	29	Wy.	WI			0.00			+0.79	0	6.0	3½
	31	Fn.	WI			+0.10			+0.25	0	6.0	2
Feb.	3	Fn.	EI			+0.11			+0.52	0	6.5	3
	9	Hd.	EI			+0.12			+0.67	0	6.5	3
Mean		1913.63				+0.069			+0.36			
		1913.69										
Corr						−0.081			−0.36			

Groombridge 1706 s. p.

				h	m	s	°	′	″			
				10	52	46.913	+78	15	9.04			
1911												
Oct.	25	Hd.	WII			+0.19			−0.26	0	6.2	3
	26	Fn.	WII			+0.03			−0.42	0	6.5	2
Nov.	2	Fn.	EII			+0.17			−0.21	0	6.4	2½
	3	Hd.	EII			−0.13			−0.23	0	6.5	2
1915												
July	24	An.	EI			----			−0.92	0	6.5	3
Aug.	9	Fn.	EI			−0.05			−1.17	0	7.0	3
	17	An.	WI			----			+0.04	0	7.0	3½
	18	Wy.	WI			+0.02			−0.24	0	6.5	3
Mean		1913.09				+0.038			−0.43			
		1913.72										
Corr						−0.081			+0.50			

Weisse$_2$ X 1021

				h	m	s	°	′	″			
1913												
Feb.	14	Fn.	WII	10	53	48.935	+20	6	15.46	0	6.5	2½
	15	R.	WII			48.869			15.01	0	7.0	2

1913			h	m	s	°	′	″		
Feb. 19	Fn.	EII			48.956			15.25	0	7.8 3
Mar. 5	Fn.	EII			48.879			15.59	0	7.0 1½
1914										
Jan. 9	R.	EI			48.874			14.83	0	6.5 2½
15	Hd.	EI			48.884			15.01	0	... 3
27	R.	WI			48.819			15.75	0	7.0 2
28	Fn.	WI			48.921			15.70	0	6.5 2½
Mean	1913.60		10	53	48.892	+20	6	15.32		
Corr					−0.081			−0.23		

47 Ursæ Majoris

1912			h	m	s	°	′	″		
Mar. 2	R.	WII	10	54	25.772	+40	54	40.42	0	... 2
7	Fn.	WII			25.765			39.92	0	5.0 2
10	Fn.	EII			25.752			41.19	0	5.0 3
13	Fn.	EII			25.750			40.05	0	5.0 2
1915										
Apr. 24	An.	WI			25.692			40.75	I	5.4 2
May 2	Hd.	EI			25.656			40.54	0	... 2
6	Fn.	EI			25.677			40.22	0	... 2
13	Hd.	WI			25.661			40.44	0	... 2½
14	Fn.	WI			25.674			40.82	0	... 2½
Mean	1913.94		10	54	25.711	+40	54	40.48		
Corr					−0.081			−0.27		

Lalande 21100

1912			h	m	s	°	′	″		
Mar. 16	Fn.	EII	10	54	31.364	−19	7	16.27	0	7.0 3½
17	R.	EII			31.370			15.29	0	8.0 4
25	Fn.	WII			31.386			15.39	0	7.0 3
26	Hd.	WII			31.398			16.11	0	7.0 3½
1915										
Dec. 21	Hd.	WI			31.427			16.46	0	7.0 3
22	Fn.	WI			31.393			15.44	0	7.0 3
1916										
Jan. 7	Wy.	EI			31.427			15.08	0	7.0 3½
8	Fn.	EI			31.456			15.02	0	7.0 3½
Mean	1914.11		10	54	31.403	−19	7	15.63		
Corr					−0.081			−0.09		

B. D.+36° 2139

1912			h	m	s	°	′	″		
Dec. 30	Fn.	WII	10	54	31.707	+36	34	35.35	0	6.3 2½
1913										
Jan. 19	R.	EII			31.721			36.61	0	6.0 2
25	R.	EII			31.692			-----	0	6.0 2
30	R.	WII			31.741			35.93	0	7.0 2½
Dec. 26	Fn.	WI			31.671			36.29	0	6.0 2½
29	Hd.	WI			31.823			35.81	0	6.0 3
1914										
Jan. 5	Hd.	EI			31.715			35.68	0	6.0 2
8	Hd.	EI			31.689			35.92	0	7.0 3
Mean	1913.53		10	54	31.720	+36	34	35.94		
	1913.59									
Corr					−0.081			−0.26		

Weisse$_1$ X 936

1912			h	m	s	°	′	″		
May 1	R.	EII	10	54	47.211	−9	50	35.37	0	7.5 2½
2	Fn.	EII			47.254			35.41	0	7.0 3
4	R.	WII			47.250			35.30	0	7.5 3½
9	Fn.	WII			47.238			33.75	0	7.2 3
1915										
Apr. 6	Wy.	EI			47.183			35.22	0	7.0 3
8	Hd.	EI			47.319			35.19	0	... 3
13	Fn.	WI			47.220			34.12	0	7.0 3
14	An.	WI			47.240			35.44	0	7.0 2
Mean	1913.81		10	54	47.239	−9	50	34.98		
Corr					−0.081			−0.14		

Weisse$_1$ X 937

1913			h	m	s	°	′	″		
Mar. 17	Fn.	WII	10	54	58.977	+12	11	14.74	0	7.0 3
18	Hd.	WII			58.999			14.50	0	6.5 2
30	R.	EII			58.995			13.39	0	... 2½
Apr. 1	Hd.	EII			58.959			14.27	0	6.0 3
1914										
Mar. 24	Wy.	EI			58.985			14.73	0	6.0 2
26	Fn.	EI			58.984			14.46	0	6.5 2½
Apr. 3	Wy.	WI			58.967			14.09	0	6.0 2
6	Fn.	WI			59.002			14.14	0	6.5 2
Mean	1913.74		10	54	58.984	+12	11	14.29		
Corr					−0.081			−0.21		

α Crateris

h m s ° ′ ″
10 55 23.174 −17 49 9.72

1912								
Apr. 9	Hd.	WII	+0.023		−0.50	I	4.4	4
10	R.	WII	+0.011		+0.37	0	...	5
25	Fn.	EII	+0.069		+1.13	0	...	2½
27	R.	EII	+0.099		−0.06	0	...	5
May 18	Hd.	EII	+0.069		+0.37	0	...	2½
1915								
Apr. 19	Fn.	WI	+0.037		+1.88	0	...	3
21	An.	WI	+0.117		+0.78	0	...	3½
May 8	Hd.	EI	+0.042		+0.88	I	4.4	3
10	Hd.	EI	+0.076		+1.13	I	4.4	2½
1916								
Mar. 23	Hd.–Wy.	WI	-----		−0.76	0	...	3 R.
24	Hd.–Wy.	WI	-----		+0.74	0	...	3
31	Hd.–Wy.	EI	-----		+0.13	0	...	3 R.
Apr. 10	Hd.–Wy.	EI	-----		+0.34	I	3.9	2½
15	Hd.–Fn.	EI	-----		−0.50	I	...	2 R.
18	Hd.–Fn.	EI	-----		+1.14	I	4.4	3
19	Hd.–Fn.	WI	-----		+0.65	0	...	3
20	Hd.–Wy.	WI	-----		+0.02	0	...	3½ R.
Mean	1913.65		+0.060		+0.68			
	1914.46							
Corr			−0.081		−0.09			

d Leonis

h m s ° ′ ″
10 55 54.787 +4 6 3.06

1912								
Dec. 19	R.	EII	+0.019		−0.16	0	5.5	2½
22	R.	WII	+0.049		+0.19	0	5.5	4
28	R.	WII	+0.050		−0.15	I	4.9	3
1913								
Jan. 18	R.	EII	+0.069		+0.63	I	4.9	2
1914								
Feb. 27	Fn.	EI	+0.032		+0.16	0	5.5	2
Mar. 13	Wy.	WI	+0.077		+0.27	0	5.0	2
14	Hd.	WI	+0.063		−0.02	0	5.5	3½
18	Hd.	EI	+0.010		+0.18	0	5.5	3
Mean	1913.60		+0.046		+0.14			
Corr			−0.081		−0.19			

β Ursæ Majoris

h m s ° ′ ″
10 56 25.159 +56 51 54.30

1911			s		″			
Dec. 18	R.	EII	−0.057		+0.19	II	2.1	1½
19	R.	EII	−0.091		+0.86	0	...	...
1912								
Jan. 1	R.	EII	+0.041		[−0.60][1]	I	...	...
Mar. 18	Fn.	EII	−0.004		+0.18	I	2.1	2½
Apr. 2	Hd.	WII	+0.091		+0.61	I	1.9	4
6	R.	EII	−0.030		+0.56	II	2.6	2½
8	Fn.	WII	−0.018		+0.18	II	2.4	1½
1915								
Mar. 29	Fn.	EI	+0.046		+0.65	I	3.4	3½

[1] One bisection only.

				s	″	″			
1915									
Mar.	30	Wy.	EI	+0.049		+0.69	II	---	2½
Apr.	15	Hd.	WI	+0.007		+0.76	II	3.1	3
	17	An.	WI	−0.006		+0.20	II	3.1	2
1916									
June	*1*	*Fn.*	*EI*	*−0.121*	*+0.05*	*+0.06*	*0*	---	*1½*
	22	*Fn.*	*WI*	*−0.122*	*+0.85*	*+0.82*	*0*	---	*3*
	26	*Hd.*	*WI*	*−0.111*	*+0.22*	*+0.17*	*0*	---	*3½*
	27	*Wy.*	*WI*	*0.000*	*+0.15*	*+0.12*	*0*	---	*3½*
	29	*Hd.*	*WI*	*−0.130*	*+0.05*	*+0.02*	*0*	---	*3*
Sept.	*17*	*Wy.*	*EI*	*−0.063*	*−0.78*	*−0.86*	*0*	---	*3½*
	18	*Hd.*	*EI*	*−0.022*	*−0.51*	*−0.61*	*0*	---	*3½*
	19	*Wy.*	*EI*	*−0.047*	*+0.07*	*−0.04*	*0*	---	*3½*
	21	*Hd.*	*EI*	*−0.056*	*−0.48*	*−0.56*	*0*	---	*3½*
	24	*Wy.*	*EI*	*+0.007*	*+0.01*	*−0.02*	*0*	---	*3½*
Oct.	*8*	*Hd.*	*WI*	*+0.021*	*+0.62*	*+0.57*	*0*	---	*3*
	22	*Wy.*	*WI*	*−0.070*	*+1.62*	*+1.60*	*0*	---	*3½*
	23	*Hd.*	*WI*	*+0.021*	*+1.03*	*+1.00*	*0*	---	*3*
	26	*Hd.*	*EI*	*+0.006*	*+0.28*	*+0.26*	*I*	---	*3*
Nov.	*8*	*Wy.*	*EI*	*−0.027*	*−0.06*	*−0.06*	*0*	---	*3½*
	15	*Wy.*	*WI*	*−0.011*	*+1.02*	*+1.02*	*0*	---	*3½*
	19	*Fn.*	*WI*	*−0.032*	*+0.50*	*+0.61*	*0*	---	*3*
	23	*Fn.*	*WI*	*−0.024*	----	----	*I*	---	*2½*
1917									
Apr.	9	Hd.	WI	−0.022		+1.23	II	3.1	2
	10	Fn.	WI	−0.029		+0.76	I	2.9	2½
	16	Fn.	WI	−0.012		+1.02	I	2.9	2½
May	1	Fn.	EI	+0.010		----	I	2.9	3
	3	Hd.	EI	−0.027		+0.40	II	2.6	2
	10	Fn.	WI	+0.041		+1.41	I	2.9	2
	11	Wy.	WI	+0.050		+1.41	I	2.9	3
	14	Wy.	WI	+0.023		+1.19	I	2.4	2½
	15	Hd.	WI	+0.037		+1.79	I	2.9	3
	18	*Hd.*	*WI*	*−0.037*	*+1.59*	*+1.58*	*I*	---	*3*
June	*4*	*Wy.*	*WI*	*−0.041*	*+1.15*	*+1.15*	*0*	---	*3½*
July	*30*	*Wy.*	*EII*	-----	*+0.70*	*+0.62*	*0*	---	*3½*
Aug.	*3*	*Fn.*	*WII*	*−0.082*	*+0.55*	*+0.43*	*0*	---	*3½*
	6	*Hd.*	*WII*	*+0.028*	*+0.95*	*+0.90*	*0*	---	*3½*
Sept.	*12*	*Hd.*	*EII*	*−0.049*	*+0.76*	*+0.66*	*0*	---	*3½*
	16	*Hd.*	*EII*	*−0.033*	*+0.13*	*+0.09*	*0*	---	*3½*
	17	*Wy.*	*EII*	*+0.033*	*+0.78*	*+0.72*	*0*	---	*3½*
	19	*Hd.*	*WII*	*+0.009*	*+0.84*	*+0.78*	*0*	---	*3½*
Oct.	*1*	*Fn.*	*WII*	*+0.005*	*+0.64*	*+0.56*	*0*	---	*3½*
	3	*Hd.*	*WII*	*−0.037*	*+0.05*	*−0.01*	*0*	---	*3½*
	4	*Fn.*	*WII*	*−0.086*	*+0.67*	*+0.58*	*0*	---	*3½*
	7	*Hd.*	*EII*	-----	*+0.57*	*+0.52*	*0*	---	*3½*
	21	*Hd.*	*EII*	*−0.006*	*−0.21*	*−0.23*	*0*	---	*3½*
	31	*Hd.*	*EII*	*+0.002*	*+0.47*	*+0.45*	*0*	---	*3*
Nov.	*18*	*Hd.*	*WII*	*+0.013*	*+0.29*	*+0.27*	*I*	---	*2*
1918									
May	8	Fn.	EII	−0.027		+0.01	I	2.4	2
Mean		1915.25		+0.003		+0.74			
		1915.31							
Corr				−0.081		−0.31			

β Ursæ Majoris s. p.

				h	m	s	°	′	″			
				10	56	-----	+56	51	54.29			
1911												
Aug.	21	Fn.	EII			-----			+0.5	0	---	4½
	22	R.	EII			-----			−0.3	0	---	5
Dec.	19	R.	EII			-----			−1.7	0	---	--
1912												
Sept.	12	R.	WII			-----			−2.3	0	---	--
	30	Hd.	EII			-----			+0.5	I	---	2½
Oct.	15	R.	WII			-----			−1.4	0	---	--
1913												
Dec.	9	R.	EI			-----			−5.0	0	---	--
	12	R.	EI			-----			−9.2	0	---	--
	13	Hd.	EI			-----			−4.3	I	---	5
	15	Fn.	WI			-----			−1.4	0	---	3½
	19	R.	WI			-----			−0.6	0	---	--
1914												
Aug.	22	An.	WI			-----			−3.2	0	---	3
Oct.	31	An.	EI			-----			−3.5	I	---	4½
Nov.	4	Hd.	WI			-----			+3.0	0	---	4
	5	Fn.	WI			-----			+2.4	0	---	4

				s	″			
1914								
Nov.	9	Hd.	WI	-----	+1.2	0	---	[illegible]
	11	An.	WI	-----	+1.3	0	---	4½
1915								
Sept.	8	Hd.	WI	-----	−5.1	0	---	4
	16	Wy.	EI	-----	−1.6	0	---	4½
	21	Wy.	EI	-----	−7.6	0	---	5
Oct.	12	Wy.	WI	-----	−2.2	0	---	5
	23	Fn.	WI	-----	+0.6	0	---	4½
	25	Hd.	WI	-----	−3.8	0	---	4
Nov.	2	Wy.	EI	-----	−1.0	0	---	5
	15	Hd.	WI	-----	−4.8	0	---	5
	16	Fn.	WI	-----	+0.4	0	---	4½
	17	Wy.	WI	-----	−1.8	0	---	4
	22	Fn.	EI	-----	+4.0	0	---	4½
1916								
Oct.	24	Hd.	WI	-----	−3.9	0	---	4
1917								
Sept.	18	Wy.	EII	-----	−1.6	0	---	4
Oct.	4	Hd.	WII	-----	−1.4	0	---	4
	22	Hd.	EII	-----	+0.5	0	---	4
Mean		1914.89		-----	−1.67			
Corr				-----	+1.43			

Radcliffe 1845, 2610

				h	m	s	°	′	″			
1913												
Jan.	27	Fn.	EII	10	57	48.99	+62	8	24.87	0	7.0	2½
	29	Fn.	WII			49.00			24.92	0	7.0	2
Feb.	7	Fn.	WII			49.01			25.19	0	7.5	3
	25	R.	EII			49.04			25.09	0	7.0	2
1914												
Feb.	9	Hd.	EI			49.01			25.06	0	7.0	3
	26	Hd.	EI			49.01			24.68	0	7.0	2
Apr.	3	Wy.	WI			49.08			24.33	0	7.2	2
	4	Hd.	WI			49.05			24.76	0	7.5	2
Mean		1913.65		10	57	49.024	+62	8	24.86			
Corr						−0.081			−0.32			

Weisse$_1$ X 991

				h	m	s	°	′	″			
1912												
Apr.	19	Hd.	EII	10	58	2.205	−3	1	40.99	0	6.5	3
	20	Fn.	WII			2.129			40.62	0	6.5	2½
	23	Hd.	WII			2.091			40.34	0	6.5	--
	27	R.	EII			2.119			41.86	0	7.5	3
1916												
Jan.	14	Hd.	EI			2.108			40.74	0	6.5	2½
	20	Wy.	EI			2.121			41.50	0	7.0	3
Feb.	9	Hd.	WI			2.046			42.19	0	7.5	3
	15	Hd.	WI			2.121			41.46	0	---	3
Mean		1914.19		10	58	2.118	−3	1	41.21			
Corr						−0.081			−0.17			

α Ursæ Majoris

				h	m	s	°	′	″			
				10	58	10.963	+62	14	13.22			
1911												
Dec.	19	R.	EII			−0.11			+0.15	I	2.9	--
	27	Hd.	EII			−0.01			+0.23	II	1.1	3
1912												
May	1	R.	EII			−0.13			+0.13	II	2.1	2
	2	Fn.	EII			−0.03			+0.50	II	1.9	2
	4	R.	WII			+0.04			−0.02	II	---	3
	9	Fn.	WII			−0.02			−0.22	II	2.3	2½
1915												
Dec.	21	Hd.	WI			0.00			+0.56	II	2.6	2
	23	Hd.	WI			−0.12			+0.06	II	2.6	3
1916												
Jan.	3	Wy.	EI			−0.02			+0.32	II	1.6	3
	23	Fn.	EI			−0.02			+0.25	I	1.9	1½
Mean		1913.73				−0.042			+0.20			
Corr						−0.081			−0.32			

α Ursæ Majoris s. p.

			h	m	s	°	′	″			
			10	58	-----	+62	14	13.23			
1911											
Dec. 19	R.	EII			-----			+0.1	0	---	--
28	Hd.	EII			-----			−0.6	0	---	5
1912											
July 26	R.	WII			-----			+0.3	0	---	--
Dec. 10	Hd.	WII			-----			+0.1	0	---	5
19	Hd.	EII			-----			+0.2	I	---	4
1914											
Nov. 12	Hd.	WI			-----			−0.2	0	---	4
1915											
Sept. 9	Wy.	WI			-----			−0.7	0	---	4
20	Hd.	EI			-----			−1.2	0	---	4
Mean	1913.59				-----			−0.25			
Corr					-----			+0.86			

Weisse$_2$ X 1143

			h	m	s	°	′	″			
1913											
Jan. 19	R.	EII	10	59	44.052	+31	55	17.54	0	7.0	1½
25	R.	EII			44.074			17.70	0	7.5	2
Feb. 4	R.	WII			44.087			18.24	0	7.5	2
8	R.	WII			44.118			18.05	0	7.5	2½
1914											
Jan. 9	R.	EI			44.001			17.26	0	7.5	2
28	Fn.	WI			44.099			17.87	0	7.0	3
31	Fn.	WI			44.077			18.00	0	7.0	2
Feb. 7	Wy.	EI			44.094			17.42	0	6.0	2½
Mean	1913.58		10	59	44.075	+31	55	17.76			
Corr					−0.081			−0.25			

B. D.+39° 2419

			h	m	s	°	′	″			
1917											
Mar. 30	Fn.	WI	10	59	-----	+38	53	47.52	0	8.0	2
Apr. 9	Hd.	WI			-----			47.95	0	7.5	3
30	Hd.	EI			-----			47.47	0	8.0	3
May 1	Fn.	EI			-----			46.80	0	7.5	3
Mean	1917.29		10	59	-----	+38	53	47.44			
Corr					-----			−0.27			

χ Leonis

			h	m	s	°	′	″			
			11	0	22.441	+7	49	22.13			
1912											
Mar. 2	R.	WII			+0.010			−0.69	0	---	1
7	Fn.	WII			+0.072			−1.03	0	5.0	2
10	Fn.	EII			+0.047			−0.51	0	5.0	3
13	Fn.	EII			+0.034			+0.04	0	5.2	2½
1915											
Apr. 7	An.	EI			+0.019			−0.50	I	5.9	2
8	Hd.	EI			+0.076			−0.28	I	4.4	2
13	Fn.	WI			+0.015			+0.08	I	4.4	3
14	An.	WI			+0.037			+0.42	I	5.4	2
17	An.	WI			+0.058			−0.47	I	5.4	2½
Mean	1913.90				+0.041			−0.33			
Corr					−0.081			−0.20			

χ Hydræ

			h	m	s	°	′	″			
1913											
Mar. 18	Hd.	WII	11	0	59.654	−26	48	27.52	0	5.7	3½
21	Fn.	WII			59.645			27.55	0	---	4½
22	Hd.	WII			59.625			27.07	0	5.5	3
24	Fn.	EII			59.681			28.44	0	---	4
28	Fn.	EII			59.674			27.45	0	5.5	3
Dec. 29	Hd.	WI			59.680			27.48	0	---	4
1914											
Jan. 5	Hd.	EI			59.639			27.72	0	6.0	3½
8	Hd.	EI			59.697			27.37	0	---	3
27	R.	WII			59.621			28.58	0	---	4
Mean	1913.58		11	0	59.657	−26	48	27.69			
Corr					−0.081			−0.01			

Weisse$_1$ X 1046

			h	m	s	°	′	″			
1912											
Apr. 9	Hd.	WII	11	1	2.953	−10	36	4.08	0	6.5	3
10	R.	WII			2.935			3.54	0	7.0	5
11	Fn.	EII			3.041			4.97	0	6.6	3½
16	Hd.	EII			2.989			4.76	0	---	3
1915											
Apr. 1	Fn.	EI			2.995			4.19	0	---	3½
6	Wy.	EI			2.935			4.68	0	6.5	3
15	Hd.	WI			3.032			4.80	0	6.5	3½
19	Fn.	WI			2.959			4.63	0	---	3
Mean	1913.78		11	1	2.980	−10	36	4.46			
Corr					−0.081			−0.14			

Weisse$_2$ X 1188

			h	m	s	°	′	″			
1912											
Dec. 19	R.	EII	11	1	57.913	+18	13	27.47	0	7.5	3½
22	R.	WII			57.901			28.16	0	7.5	2
28	R.	WII			57.871			27.66	0	6.0	1½
1913											
Jan. 18	R.	EII			57.930			28.44	0	6.0	1
1914											
Mar. 20	Wy.	EI			57.893			27.86	0	6.5	2½
23	Fn.	EI			57.951			27.86	0	6.0	1½
Apr. 3	Wy.	WI			57.891			27.58	0	6.0	2
4	Hd.	WI			57.909			27.80	0	7.0	2
Mean	1913.62		11	1	57.907	+18	13	27.85			
Corr					−0.081			−0.23			

Lalande 21298

			h	m	s	°	′	″			
1912											
Mar. 16	Fn.	EII	11	2	7.593	−20	40	50.31	0	7.3	3½
18	Fn.	EII			7.620			49.73	0	---	3½
25	Fn.	WII			7.619			49.46	0	7.5	3
Apr. 8	Fn.	WII			7.592			50.16	0	7.5	3½
1916											
Jan. 14	Hd.	EI			7.623			49.51	0	7.0	3
20	Wy.	EI			7.601			50.36	0	7.5	3
Feb. 29	Hd.	WI			7.659			51.05	0	7.5	3
Mar. 3	Hd.	WI			7.597			49.91	0	---	3
Mean	1914.17		11	2	7.613	−20	40	50.06			
Corr					−0.081			−0.07			

B. D.+72° 515

			h	m	s	°	′	″			
1913											
Feb. 13	R.	WII	11	2	17.10	+72	26	47.46	0	7	5 2
14	Fn.	WII			17.13			46.88	0	6.5	2½
Mar. 29	Hd.	EII			17.27			46.47	0	7.0	2
30	R.	EII			17.12			[45.79][1]	0	7.0	3
1914											
Mar. 24	Wy.	EI			17.24			47.24	0	7.0	2½
26	Fn.	EI			17.24			47.04	0	7.0	2½
Apr. 5	Hd.	WI			17.24			47.12	0	7.5	2
6	Fn.	WI			17.17			46.38	0	7.0	2
Mean	1913.71		11	2	17.189	+72	26	46.94			
	1913.78										
Corr					−0.081			−0.34			

[1] Points of bisection doubtful.

B. D.+72° 515 S. P.

			h	m	s	°	′	″			
1912											
Nov. 2	R.	WII	11	2	17.17	+72	26	46.91	0	---	2½
5	Fn.	WII			17.03			47.25	0	8.1	4
12	Fn.	EII			17.57			45.32	0	8.4	4½
16	Hd.	EII			17.04			44.79	0	7.5	3
18	Fn.	EII			17.16			45.24	0	7.8	3½
1914											
Sept. 1	An.	WI			-----			46.65	0	7.0	3½
2	Wy.	WI			17.28			45.88	0	7.5	3½
4	Fn.	WI			17.11			46.23	0	7.5	3½
20	An.	EI			-----			45.80	0	7.0	3½
21	Hd.	EI			16.97			46.24	0	7.5	3½
Mean	1913.55		11	2	17.166	+72	26	46.03			
	1913.78										
Corr					−0.081			+0.57			

p^4 Leonis

			h	m	s	°	′	″			
			11	2	18.719	+2	26	39.39			
1913											
Feb. 15	R.	WII			+0.001			−0.52	0	5.5	2
19	Fn.	EII			−0.019			−0.80	0	6.0	2½
Mar. 5	Fn.	EII			−0.023			−0.95	0	6.0	2
17	Fn.	WII			+0.018			−0.73	0	6.0	3
1914											
Apr. 8	Hd.	WI			+0.047			−0.01	0	6.5	3
9	Fn.	WI			+0.033			−0.87	0	6.0	2
10	Wy.	WI			−0.001			−0.35	0	5.8	2½
13	Fn.	EI			+0.023			−0.56	0	---	--
17	Wy.	EI			+0.037			−0.85	0	6.0	3
21	Hd.	EI			+0.002			−0.12	0	6.0	2
1916											
Mar. 23	Hd.–Wy.	WI			-----			−0.01	0	6.0	2
24	Hd.–Wy.	WI			-----			−2.00	0	---	3 R.
31	Hd.–Wy.	EI			-----			−0.66	0	5.8	2
Apr. 10	Hd.–Wy.	EI			-----			−2.18	0	---	2 R.
15	Hd.–Fn.	EI			-----			−0.44	0	6.0	2
18	Hd.–Fn.	EI			-----			−2.14	0	---	3 R.
19	Hd.–Fn.	WI			-----			−1.40	0	---	3 R.
20	Hd.–Wy.	WI			-----			−0.46	0	6.0	3½
Mean	1913.83				+0.012			−0.52			
	1914.53										
Corr					−0.081			−0.18			

Carrington 1651

			h	m	s	°	′	″			
1912											
May 2	Fn.	EII	11	3	7.03	+82	13	25.87	0	---	2½
3	Hd.	EII			6.80			25.66	0	7.0	2
10	Hd.	WII			6.75			26.00	0	7.0	2
13	Fn.	WII			7.22			26.57	0	---	3½
16	Fn.	WII			6.84			25.54	0	---	3½
1915											
Mar. 29	Fn.	EI			6.92			25.89	0	7.5	3½
31	An.	EI			6.66			25.42	0	7.0	3
Apr. 21	An.	WI			7.31			25.24	0	---	3½
24	An.	WI			7.14			25.80	0	7.0	2½
Mean	1913.65		11	3	6.963	+82	13	25.78			
Corr					−0.081			−0.38			

Carrington 1651 S. P.

			h	m	s	°	′	″			
1911											
Aug. 21	Fn.	EII	11	3	6.95	+82	13	25.07	0	7.2	3
22	R.	EII			6.78			25.49	0	7.0	2½
Oct. 16	Fn.	WII			6.64			25.05	0	7.4	3
18	Fn.	WII			6.63			25.24	0	7.3	--
1915											
Sept. 3	Hd.	WI			6.55			24.31	0	---	3
7	Wy.	WI			6.84			24.36	0	---	3
14	Wy.	EI			6.54			23.78	0	7.5	3
15	Hd.	EI			6.73			24.22	0	7.0	3
Mean	1913.70		11	3	6.708	+82	13	24.69			
Corr					−0.081			+0.46			

Radcliffe 1845, 2612

			h	m	s	°	′	″			
1913											
Jan. 27	Fn.	EII	11	3	49.04	+86	7	42.96	0	7.5	3½
Feb. 4	R.	WII			48.92			43.53	0	7.5	2
8	R.	WII			49.56			43.14	0	8.0	2
25	R.	EII			49.46			43.98	0	7.5	1½
1914											
Feb. 26	Hd.	EI			48.55			44.69	0	7.5	3
27	Fn.	EI			48.76			43.79	0	7.5	2½
Apr. 3	Wy.	WI			48.93			43.93	0	7.0	2½
5	Hd.	WI			48.84			43.36	0	7.0	2
Mean	1913.66		11	3	49.01	+86	7	43.67			
Corr					−0.08			−0.39			

Radcliffe 1845, 2612 S. P.

			h	m	s	°	′	″			
1911											
Oct. 24	Fn.	WII	11	3	49.17	+86	7	43.04	0	7.2	2½
25	Hd.	WII			49.07			42.94	0	7.0	3
Nov. 3	Hd.	EII			48.73			42.85	0	6.5	2
7	R.	EII			49.38			42.54	0	6.5	3
1914											
Oct. 22	Hd.	EI			49.09			43.07	0	---	3
23	Fn.	EI			47.83			43.33	0	7.0	3
Nov. 2	Fn.	WI			48.75			41.86	0	7.5	3
5	Fn.	WI			48.75			41.59	0	---	3
Mean	1913.33		11	3	48.85	+86	7	42.65			
Corr					−0.08			+0.44			

Bradley 1541

			h	m	s	°	′	″			
1912											
Apr. 19	Hd.	EII	11	3	59.521	+25	8	44.84	0	6.2	2
23	Hd.	WII			59.555			45.20	0	6.0	--
25	Fn.	EII			59.493			44.60	0	---	2
May 4	R.	WII			59.590			44.48	0	6.5	2½
1915											
Dec. 23	Hd.	WI			59.524			45.47	0	6.0	3
1916											
Jan. 3	Wy.	EI			59.515			44.72	0	6.0	3
7	Wy.	EI			59.515			45.39	0	6.0	2½
23	Fn.	EI			59.565			45.05	0	6.0	1½
Feb. 9	Hd.	WI			59.496			45.14	0	6.0	3
Mean	1914.38		11	3	59.530	+25	8	44.99			
Corr					−0.081			−0.24			

Bradley 1544

			h	m	s	°	′	″			
1912											
Dec. 30	Fn.	WII	11	4	22.600	−27	35	33.83	0	---	3½
1913											
Jan. 19	R.	EII			22.566			33.16	0	7.0	3
25	R.	EII			22.564			32.27	0	6.5	2
29	Fn.	WII			22.569			33.37	0	5.8	3
1914											
Jan. 9	R.	EI			22.634			32.02	0	---	3½
17	Wy.	WI			22.554			33.89	0	6.0	3½
28	Fn.	WI			22.601			33.68	0	6.5	3½
29	Wy.	WI			22.560			33.81	0	6.0	4½
Feb. 9	Hd.	EI			22.601			34.31	0	---	3½
Mean	1913.62		11	4	22.583	−27	35	33.37			
Corr					−0.081			0.00			

ψ Ursæ Majoris

			h	m	s	°	′	″					
			11	4	36.506	+44	59	13.10					
1912													
Apr. 27	R.	EII			−0.040			−0.64	I	2.9	2½		
May 1	R.	EII			−0.065			+0.10	II	3.1	1		
9	Fn.	WII			−0.002			+0.42	I	1.9	2½		
10	Hd.	WII			+0.013			+0.09	I	2.9	2		
1915													
Apr. 8	Hd.	EI			+0.016			----	I	2.9	2		

				s	″	″			
1915									
May	6	Fn.	EI	−0.035		----	0	---	2
	14	Fn.	WI	+0.006		----	I	---	2½
1916									
Jan.	8	Fn.	EI	−0.026		−0.12	I	3.4	2½
Feb.	7	Fn.	EI	−0.044		−0.32	I	3.4	2½
	11	Fn.	WI	+0.012		−0.06	0	---	3
	15	Hd.	WI	−0.082		+0.56	I	---	3
June	*1*	*Fn.*	*EI*	*−0.084*	*+0.41*	*+0.41*	*0*	---	*1½*
	2	*Hd.*	*EI*	*−0.106*	*−0.12*	*−0.12*	*0*	---	*2*
	26	*Hd.*	*WI*	*−0.101*	*+0.21*	*+0.19*	*0*	---	*3*
Sept.	*18*	*Hd.*	*EI*	*−0.097*	*−0.63*	*−0.66*	*0*	---	*3½*
	19	*Wy.*	*EI*	*−0.068*	*+0.53*	*+0.50*	*0*	---	*3½*
Oct.	*8*	*Hd.*	*WI*	*+0.076*	*−0.72*	*−0.74*	*0*	---	*3½*
	22	*Wy.*	*WI*	*−0.077*	*+0.11*	*+0.10*	*0*	---	*3½*
	23	*Hd.*	*WI*	*−0.086*	*+0.40*	*+0.39*	*0*	---	*3*
	26	*Hd.*	*EI*	*−0.036*	*+0.20*	*+0.19*	*0*	---	*3*
Nov.	*8*	*Wy.*	*EI*	*−0.047*	*−0.44*	*−0.44*	*0*	---	*3½*
	15	*Wy.*	*WI*	*−0.035*	*+0.04*	*+0.04*	*0*	---	*3½*
	19	*Fn.*	*WI*	*−0.033*	*+0.33*	*+0.37*	*0*	---	*3*
	23	*Fn.*	*WI*	*−0.066*	----	----	*0*	---	*2½*
1917									
Apr.	9	Hd.	WI	−0.040		−0.14	I	2.9	2
	10	Fn.	WI	−0.041		+0.42	I	3.4	2½
	16	Fn.	WI	−0.039		+0.26	I	3.4	2½
	30	Hd.	EI	+0.001		+0.08	I	---	2
May	1	Fn.	EI	−0.023		−0.47	I	3.4	3
	3	Hd.	EI	−0.002		+0.12	I	3.4	2
	10	Fn.	WI	−0.030		+0.24	I	3.4	2
	11	Wy.	WI	+0.024		+0.11	I	3.4	3
	14	Wy.	WI	−0.001		−0.22	I	2.9	2½
	15	Hd.	WI	−0.025		+0.37	I	3.4	3
	18	*Hd.*	*WI*	*+0.010*	*−0.08*	*−0.08*	*I*	---	*2½*
June	*4*	*Wy.*	*WI*	*−0.047*	*−0.75*	*−0.75*	*0*	---	*3½*
July	*30*	*Wy.*	*EII*	*−0.075*	*+1.94*	*+1.91*	*0*	---	*4*
Sept.	*12*	*Hd.*	*EII*	*+0.006*	*+1.11*	*+1.08*	*0*	---	*3½*
	16	*Hd.*	*EII*	*−0.063*	*+0.08*	*+0.07*	*0*	---	*3½*
	17	*Wy.*	*EII*	*−0.037*	*−0.12*	*−0.14*	*0*	---	*3½*
Oct.	*7*	*Hd.*	*EII*	-----	*−0.51*	*−0.53*	*0*	---	*3½*
	21	*Hd.*	*EII*	*+0.024*	*−0.41*	*−0.42*	*0*	---	*3½*
Nov.	*18*	*Hd.*	*WII*	*−0.036*	*+0.26*	*+0.25*	*0*	---	*2*
1918									
May	2	Fn.	EII	+0.019		−0.79	I	2.9	2½
	8	Fn.	EII	−0.020		+0.22	I	2.9	2
Mean			1916.07	−0.018		+0.01			
			1916.18						
Corr				−0.081		−0.28			

Oeltzen 11501

				h	m	s	°	′	″			
1912												
Mar.	2	R.	WII	11	5	20.989	+48	17	5.60	0	---	2
	7	Fn.	WII			21.072			6.18	0	---	2
	10	Fn.	EII			21.058			7.06	0	7.7	3
	13	Fn.	EII			21.000			5.94	0	7.3	2
1915												
Dec.	21	Hd.	WI			21.047			6.18	0	7.0	2
	22	Fn.	WI			21.011			6.07	0	7.5	2½
1916												
Jan.	25	Hd.	EI			21.057			6.10	0	7.0	2
Feb.	3	Fn.	EI			21.038			6.11	0	7.5	2
Mean			1914.10	11	5	21.034	+48	17	6.16			
Corr						−0.081			−0.29			

B. D. +69° 602

				h	m	s	°	′	″			
1913												
Mar.	20	R.	WII	11	6	26.90	+68	45	37.96	0	---	---
	21	Fn.	WII			26.98			38.28	0	---	3½
	24	Fn.	EII			26.83			38.52	0	6.7	3½
	28	Fn.	EII			26.86			38.19	0	6.0	1½
Dec.	26	Fn.	WI			26.65			37.90	0	6.5	2½
	29	Hd.	WI			26.82			38.18	0	7.0	3
1914												
Jan.	5	Hd.	EI			26.89			38.46	0	7.0	2
	8	Hd.	EI			26.89			38.28	0	7.5	3
Mean			1913.62	11	6	26.852	+68	45	38.22			
Corr						−0.081			−0.34			

β Crateris

				h	m	s	°	′	″			
				11	7	13.792	−22	20	4.49			
1912												
Apr.	10	R.	WII			+0.008			+0.47	0	---	5
	11	Fn.	EII			+0.039			+0.30	0	---	4
	16	Hd.	EII			+0.073			−0.25	0	---	4
	20	Fn.	WII			+0.044			+0.89	0	---	3½
1916												
Jan.	14	Hd.	EI			+0.005			+2.02	I	4.4	3
	20	Wy.	EI			+0.063			+0.25	I	4.4	3½
Feb.	22	Fn.	WI			-----			−0.14	0	---	3½
	29	Hd.	WI			+0.109			−0.45	0	5.0	3½
Mar.	3	Hd.	WI			−0.055			+0.04	0	---	3
Mean			1914.20			+0.036			+0.35			
			1914.41									
Corr						−0.081			−0.06			

Groombridge 1746

				h	m	s	°	′	″			
1912												
Mar.	17	R.	EII	11	7	30.511	+55	23	1.45	0	7.5	3
	18	Fn.	EII			30.651			1.60	0	6.3	2½
	25	Fn.	WII			30.659			1.55	0	6.4	1½
	26	Hd.	WII			30.678			0.91	0	7.0	4
1915												
Apr.	21	An.	WI			30.604			1.18	0	---	2½
	24	An.	WI			30.593			1.04	0	7.0	2
May	10	Hd.	EI			30.598			1.74	0	6.5	2½
	11	Fn.	EI			30.619			1.19	0	---	2½
Mean			1913.78	11	7	30.614	+55	23	1.33			
Corr						−0.081			−0.30			

δ Leonis

				h	m	s	°	′	″			
				11	9	19.507	+21	1	0.20			
1911												
Oct.	*18*	*Hd.*	*WII*			-----			*−0.34*	*−0.31*	*0*	---	*3½*
Nov.	*2*	*R.*	*EII*			*+0.001*			*+0.22*	*+0.23*	*0*	---	---
	12	*Hd.*	*EII*			*+0.030*			*−0.42*	*−0.46*	*0*	---	*3*
	15	*Hd.*	*EII*			*+0.001*			*+0.23*	*+0.23*	*0*	---	*2*
	16	*Hd.*	*EII*			-----			*+0.43*	*+0.44*	*0*	---	---
	21	*R.*	*EII*			*−0.040*			*−0.34*	*−0.34*	*0*	---	---
	22	*Fn.*	*EII*			-----			*+0.15*	*+0.20*	*I*	---	*2*
	26	*Hd.*	*WII*			-----			*+1.26*	*+1.22*	*I*	---	*2*
1912												
Mar.	31	Hd.	WII			+0.026			+0.30	II	2.6	2
Apr.	6	R.	EII			+0.021			----	II	2.6	3
	8	Fn.	WII			+0.020			+0.99	I	2.2	1½
	20	Fn.	WII			+0.005			+0.16	I	2.3	2
	25	Fn.	EII			0.000			----	0	---	2
	27	R.	EII			−0.025			----	0	---	---
May	1	R.	EII			−0.031			+0.44	II	3.1	2½
	2	Fn.	EII			+0.028			−0.73	I	2.5	---
	3	Hd.	EII			+0.015			+0.21	II	2.6	1
	4	R.	WII			+0.051			----	II	2.6	1½
	9	Fn.	WII			+0.026			----	I	---	---
	10	Hd.	WII			−0.009			+0.20	II	2.6	2
	13	Fn.	WII			+0.006			----	I	---	3½
Oct.	*14*	*R.*	*WII*			*+0.001*			*−0.29*	*−0.28*	*0*	---	---
	16	*R.*	*WII*			-----			*+0.06*	*+0.04*	*0*	---	---
	17	*Fn.*	*WII*			*+0.035*			*−0.84*	*−0.85*	*0*	---	---
	28	*R.*	*EII*			*−0.007*			*−0.14*	*−0.09*	*0*	---	---
	30	*Hd.*	*EII*			*−0.014*			*+0.05*	*+0.08*	*0*	---	*2½*
Dec.	22	R.	WII			+0.010			+0.39	I	2.9	2
1913												
Jan.	21	R.	EII			−0.008			----	II	2.6	2
	25	R.	EII			+0.006			----	--	---	---
	29	Fn.	WII			−0.015			+0.22	I	2.8	2
	30	R.	WII			−0.023			----	II	2.1	3
Mar.	17	Fn.	WII			−0.014			+0.05	I	2.7	3
	18	Hd.	WII			+0.002			----	II	2.6	2
	22	Hd.	WII			+0.002			----	II	2.6	2
Apr.	1	Hd.	EII			+0.007			----	I	2.9	2½
	2	Fn.	EII			−0.011			+0.57	I	2.5	2
	6	R.	WII			−0.046			----	II	2.6	2
	16	Hd.	WII			−0.001			+0.57	II	2.6	3

				s	″	″			
1913									
Apr.	21	Hd.	EII	−0.020		+0.17	I	2.4	2
	22	Fn.	EII	+0.011		+0.43	I	2.6	1½
	24	Hd.	EII	+0.004		+0.23	II	2.6	1
	25	Fn.	EII	+0.026		+0.18	I	2.6	2
Nov.	*4*	*Hd.*	*EI*	*+0.020*	*+0.19*	*+0.20*	*0*	---	*3*
	5	*Fn.*	*EI*	*−0.046*	*−0.29*	*−0.24*	*0*	---	*3*
	16	*Fn.*	*WI*	*+0.045*	*+0.94*	*+0.94*	*0*	---	*3*
	17	*R.*	*WI*	-----	*+0.60*	*+0.59*	*I*	---	*2*
1914									
Jan.	29	Wy.	WI	+0.033		+0.01	I	2.9	3
Feb.	2	Hd.	WI	+0.009		----	I	---	2
	3	Fn.	EI	−0.044		----	I	2.9	2½
	7	Wy.	EI	+0.004		----	I	2.4	2½
	9	Hd.	EI	−0.021		----	I	2.9	3
	17	Fn.	WI	−0.009		----	I	2.4	3
	26	Hd.	EI	−0.016		----	I	---	3
Mar.	3	Fn.	WI	+0.023		----	I	2.9	2½
	20	Wy.	EI	−0.022		----	I	2.9	2½
	23	Fn.	EI	+0.001		+0.01	I	2.4	2
	24	Wy.	EI	+0.011		+0.26	I	2.9	2
	26	Fn.	EI	+0.027		----	I	2.4	2½
Apr.	10	Wy.	WI	+0.011		----	I	3.4	2
	17	Wy.	EI	0.000		----	I	2.9	3
	21	Hd.	EI	−0.020		----	I	2.9	2
	26	Hd.	EI	−0.012		----	I	2.9	3
	27	Wy.	EI	−0.010		+0.18	I	2.9	3
	28	Hd.	EI	−0.032		−0.53	I	2.9	2
	30	Wy.	WI	−0.002		----	I	---	3
May	2	Fn.	WI	−0.014		−0.06	I	2.9	2
	7	Wy.	WI	+0.015		+0.39	0	---	2½
	15	Wy.	WI	−0.046		+0.44	I	---	2½
Sept.	*25*	*An.*	*EI*	*−0.024*	*−1.05*	*−1.02*	*0*	---	*3*
	28	*Wy.*	*WI*	*−0.020*	*−0.37*	*−0.28*	*0*	---	*4*
	29	*An.*	*WI*	*−0.045*	----	----	*0*	---	*4*
Oct.	*11*	*Hd.*	*WI*	*−0.006*	*−0.02*	*0.00*	*0*	---	*3½*
	18	*Hd.*	*EI*	*+0.011*	*−0.15*	*−0.13*	*0*	---	*2½*
	20	*An.*	*EI*	*−0.038*	*−0.74*	*−0.67*	*0*	---	*4*
	21	*Hd.*	*EI*	*+0.047*	*+0.08*	*+0.08*	*0*	---	*3*
	22	*Fn.*	*EI*	-----	*−0.37*	*−0.33*	*0*	---	*3½*
	27	*An.*	*EI*	*+0.009*	*−0.03*	*−0.02*	*0*	---	*3½*
	28	*Fn.*	*EI*	-----	*−0.17*	*−0.15*	*0*	---	*3*
	29	*Hd.*	*EI*	*0.000*	*−0.54*	*−0.54*	*0*	---	*2½*
	30	*An.*	*EI*	*−0.065*	*−0.38*	*−0.40*	*0*	---	*3½*
Nov.	*1*	*Fn.*	*WI*	*−0.033*	*−0.48*	*−0.53*	*0*	---	*3½*
	2	*An.*	*WI*	*−0.046*	*+1.43*	*+1.51*	*0*	---	*3*
	3	*Hd.*	*WI*	*−0.021*	*+0.15*	*+0.20*	*0*	---	*3½*
	4	*Fn.*	*WI*	*−0.037*	*−0.74*	*−0.76*	*0*	---	*3½*
	6	*Hd.*	*WI*	*−0.011*	*+0.34*	*+0.38*	*0*	---	*2½*
	9	*Fn.*	*WI*	*−0.002*	*+0.51*	*+0.53*	*0*	---	*2½*
	20	*Wy.*	*EI*	*+0.003*	----	----	*I*	---	*2½*
	23	*Wy.*	*EI*	*+0.011*	----	----	*0*	---	*2½*
	25	*Fn.*	*EI*	*+0.025*	----	----	*0*	---	*4*
1915									
Mar.	29	Fn.	EI	+0.019		----	I	2.9	3½
	30	Wy.	EI	+0.023		----	I	---	2½
	31	An.	EI	−0.001		----	I	---	--
Apr.	1	Fn.	EI	+0.013		----	0	---	2½
	6	Wy.	EI	−0.013		----	I	---	3
	7	An.	EI	+0.019		----	II	---	2
	8	Hd.	EI	−0.018		−0.21	I	2.9	2
	13	Fn.	WI	−0.021		+0.88	I	2.4	2½
	14	An.	WI	−0.013		+0.57	II	3.6	1½
	15	Hd.	WI	+0.003		+0.37	I	2.9	3
	17	An.	WI	−0.027		----	I	---	--
	19	Fn.	WI	+0.004		----	I	---	2½
	30	Wy.	EI	−0.005		----	0	---	3½
May	2	Hd.	EI	0.000		----	0	---	2
	6	Fn.	EI	−0.042		−0.46	0	---	2
	13	Hd.	WI	+0.002		+0.57	I	---	2
	14	Fn.	WI	+0.008		+0.63	0	---	3
	15	Wy.	WI	−0.030		+0.63	II	2.6	2½
	17	Hd.	EI	+0.030		+0.15	I	2.9	3
	26	An.	WI	-----		+0.16	I	3.9	3
Sept.	*13*	*Wy.*	*EI*	*−0.030*	*+0.10*	*+0.17*	*0*	---	*3½*
	14	*Hd.*	*EI*	*−0.002*	*+0.22*	*+0.28*	*0*	---	*3*
	21	*Hd.*	*EI*	*+0.009*	*−0.44*	*−0.38*	*0*	---	*3*
	23	*Wy.*	*EI*	*−0.032*	*−0.13*	*−0.04*	*0*	---	*3½*
	27	*Fn.*	*EI*	*+0.029*	*−0.78*	*−0.72*	*0*	---	*3½*

				▪	″	″			
1915									
Oct.	*7*	*Hd.*	*WI*	*+0.009*	*−0.18*	*−0.14*	*0*	---	*2*
	8	*Fn.*	*WI*	*+0.013*	*−0.50*	*−0.45*	*0*	---	*3½*
	11	*Wy.*	*WI*	-----	*−0.20*	*−0.14*	*0*	---	*3½*
	22	*Fn.*	*WI*	*+0.086*	*−0.56*	*−0.53*	*0*	---	*3½*
	24	*Hd.*	*WI*	*−0.019*	*+0.20*	*+0.23*	*0*	---	*3*
	26	*Wy.*	*WI*	*+0.007*	*−0.60*	*−0.57*	*0*	---	*3½*
	27	*Hd.*	*EI*	*+0.009*	*−0.98*	*−0.94*	*0*	---	*3*
	29	*Wy.*	*EI*	*+0.021*	*−0.29*	*−0.27*	*0*	---	*3½*
Nov.	*2*	*Hd.*	*EI*	*0.000*	*−0.11*	*−0.09*	*0*	---	*3*
	5	*Hd.*	*EI*	*−0.009*	*+0.06*	*+0.09*	*0*	---	*2*
	9	*Fn.*	*WI*	*−0.014*	*−0.39*	*−0.37*	*0*	---	*2½*
Dec.	23	Hd.	WI	−0.028		+0.20	I	2.9	3
1916									
Jan.	23	Fn.	EI	+0.004		+0.09	I	2.9	1½
	25	Hd.	EI	−0.008		−0.10	I	2.9	2
Feb.	9	Hd.	WI	−0.050		+0.18	I	2.9	3
	15	Hd.	WI	−0.040		+0.19	I	---	3
Mar.	4	Wy.	WI	−0.012		+0.44	I	---	4
	10	Fn.	WI	+0.007		----	I	2.9	2½
	11	Wy.	WI	−0.036		0.00	I	3.4	2
June	*1*	*Fn.*	*EI*	*−0.061*	*+0.02*	*+0.01*	*0*	---	*1½*
	2	*Hd.*	*EI*	*−0.048*	*−0.70*	*−0.69*	*0*	---	*2*
	5	*Hd.*	*EI*	*−0.024*	*−0.50*	*−0.50*	*0*	---	*2½*
	12	*Wy.*	*EI*	*−0.036*	*+0.31*	*+0.28*	*0*	---	*3*
	22	*Fn.*	*WI*	*−0.044*	*+0.29*	*+0.30*	*0*	---	*3*
	26	*Hd.*	*WI*	*−0.057*	*−1.10*	*−1.05*	*0*	---	*3*
	27	*Wy.*	*WI*	*−0.019*	*−0.41*	*−0.41*	*0*	---	*3½*
	29	*Hd.*	*WI*	*−0.046*	*−0.56*	*−0.55*	*0*	---	*3*
July	*7*	*Fn.*	*EI*	*−0.073*	*−1.08*	*−1.06*	*0*	---	*3½*
Sept.	*18*	*Hd.*	*EI*	*−0.043*	*−0.80*	*−0.72*	*0*	---	*3½*
Oct.	*8*	*Hd.*	*WI*	*+0.032*	*−0.70*	*−0.63*	*0*	---	*3½*
	23	*Hd.*	*WI*	*−0.040*	*+0.05*	*+0.07*	*0*	---	*3*
	26	*Hd.*	*EI*	*+0.018*	*−0.99*	*−0.97*	*0*	---	*3½*
Nov.	*8*	*Wy.*	*EI*	*−0.011*	*−0.48*	*−0.47*	*0*	---	*3½*
	15	*Wy.*	*WI*	*+0.004*	*+0.09*	*+0.10*	*0*	---	*3½*
	19	*Fn.*	*WI*	*+0.002*	*+1.04*	*+0.93*	*0*	---	*3*
	21	*Hd.*	*WI*	*+0.015*	----	----	*I*	---	*2*
	23	*Fn.*	*WI*	*+0.014*	----	----	*0*	---	*2½*
1917									
Apr.	9	Hd.	WI	−0.024		+0.26	I	2.9	3
	16	Fn.	WI	−0.027		+0.09	I	2.4	2½
	19	Fn.	EI	−0.019		−0.65	0	---	3
	30	Hd.	EI	+0.014		−0.56	I	---	3
May	1	Fn.	EI	−0.010		−1.56	I	2.9	3
	3	Hd.	EI	+0.008		−0.44	I	3.4	2½
	10	Fn.	WI	+0.004		+0.15	I	2.9	2½
	11	Wy.	WI	+0.004		−0.57	I	3.4	3
	14	Wy.	WI	−0.014		+0.24	I	3.4	3
	15	Hd.	WI	−0.002		+0.64	I	2.9	3
	18	Hd.	WI	+0.006		+0.77	I	---	3
June	*4*	*Wy.*	*WI*	*+0.037*	*+0.22*	*+0.22*	*0*	---	*3½*
July	*30*	*Wy.*	*EII*	*−0.009*	----	----	*0*	---	*4*
	31	*Fn.*	*EII*	*+0.004*	*−0.25*	*−0.16*	*0*	---	*3½*
Aug.	*6*	*Hd.*	*WII*	*+0.061*	*−0.01*	*+0.03*	*0*	---	*3½*
	10	*Wy.*	*WII*	*−0.025*	*−0.69*	*−0.61*	*0*	---	*3½*
Sept.	*16*	*Hd.*	*EII*	*+0.005*	*−0.44*	*−0.40*	*0*	---	*3½*
	17	*Wy.*	*EII*	*−0.028*	*−1.06*	*−0.99*	*0*	---	*3½*
Oct.	*3*	*Hd.*	*WII*	*−0.019*	*−1.30*	*−1.23*	*0*	---	*3½*
	4	*Fn.*	*WII*	*−0.016*	*−0.43*	*−0.35*	*0*	---	*3½*
	21	*Hd.*	*EII*	*+0.028*	*−0.02*	*+0.01*	*0*	---	*3½*
	31	*Hd.*	*EII*	*−0.032*	*+0.10*	*+0.13*	*0*	---	*3*
Nov.	*18*	*Hd.*	*WII*	*+0.006*	*−1.20*	*−1.17*	*0*	---	*2*
1918									
Mar.	29	Wy.	WII	−0.016		−0.08	II	2.6	3
May	2	Fn.	EII	+0.021		+0.20	I	2.4	2½
	8	Fn.	EII	+0.036		−0.43	I	2.4	2
Mean			1914.72	−0.003		+0.14			
			1915.11						
Corr				−0.081		−0.23			

θ Leonis

h	m	s	°	′	″
11	9	31.089	+15	55	17.48

1912									
Dec.	19	R.	EII	+0.049		+0.60	I	3.9	2
	28	R.	WII	+0.025		−0.14	I	2.9	2

				s	"			
1912								
Dec. 30	Fn.	WII		+0.072	−0.21	I	2.9	2½
1913								
Jan. 18	R.	EII		+0.062	+0.53	I	2.9	2
1914								
Jan. 9	R.	EI		+0.035	−0.38	I	2.9	2½
15	Hd.	EI		+0.045	+0.21	0	---	3
27	R.	WI		+0.071	+0.24	I	3.4	2½
28	Fn.	WI		+0.077	−0.36	0	3.4	3
1916								
Mar. 23	Hd.–Wy.	WI		-----	−0.66	I	---	2 R.
24	Hd.–Wy.	WI		-----	+0.23	I	-	2½
31	Hd.–Wy.	EI		-----	−0.90	I	-	2 R.
Apr. 10	Hd.–Wy.	EI		-----	+0.11	I	2.9	2
15	Hd.–Fn.	EI		-----	−1.20	I	---	2 R.
18	Hd.–Fn.	EI		-----	−0.09	I	4.4	2½
19	Hd.–Fn.	WI		-----	−0.31	I	4.4	3
20	Hd.–Wy.	WI		-----	−1.15	0	---	3½ R.
Mean		1913.53		+0.054	+0.04			
		1914.44						
Corr				−0.081	−0.22			

Bradley 1549

				h m s	° ′ ″			
1912								
Mar. 7	Fn.	WII		11 10 25.186	+23 35 9.51	0	5.0	2
13	Fn.	EII		25.187	10.38	0	5.0	2
16	Fn.	EII		25.191	10.40	0	5.0	2
Apr. 2	Hd.	WII		25.253	11.14	0	---	4
1915								
Dec. 21	Hd.	WI		25.176	9.98	I	4.9	3
22	Fn.	WI		25.164	9.79	0	5.0	2
1916								
Jan. 3	Wy.	EI		25.097	9.38	I	4.4	3
7	Wy.	EI		25.141	9.77	I	4.4	3
Mean		1914.10		11 10 25.174	+23 35 10.04			
Corr				−0.081	−0.24			

Lalande 21511

				h m s	° ′ ″			
1913								
Jan. 25	R.	EII		11 10 49.954	−19 8 49.66	0	8.0	2
Feb. 13	R.	WII		49.989	49.56	0	---	--
14	Fn.	WII		49.984	50.73	0	---	--
15	R.	WII		49.930	50.05	0	7.5	2
Mar. 11	Hd.	EII		49.898	48.40	0	---	3½
1914								
Jan. 31	Fn.	WI		49.988	49.57	0	7.0	3½
Feb. 9	Hd.	EI		49.956	50.24	0	7.0	3
26	Hd.	EI		49.931	50.14	0	8.0	3½
Apr. 4	Hd.	WI		49.936	49.60	0	8.0	2½
6	Fn.	WI		49.920	50.96	0	7.5	3
Mean		1913.65		11 10 49.949	−19 8 49.89			
Corr				−0.081	−0.09			

n Leonis

				h m s	° ′ ″			
1912								
Apr. 19	Hd.	EII		11 11 9.504	+13 47 55.17	0	6.0	2
27	R.	EII		9.477	54.80	0	6.0	3
May 4	R.	WII		9.497	55.41	0	5.5	1½
9	Fn.	WII		9.527	55.21	0	5.7	2
1915								
Mar. 30	Wy.	EI		9.503	55.60	0	---	3
Apr. 1	Fn.	EI		9.548	54.96	0	---	3
17	An.	WI		9.511	54.45	0	---	--
19	Fn.	WI		9.505	56.86	0	6.0	2½
Mean		1913.80		11 11 9.509	+13 47 55.31			
Corr				−0.081	−0.22			

237 B. Ursæ Majoris

				h m s	° ′ ″			
1913								
Jan. 14	R.	WII		11 11 37.793	+49 58 3.49	0	6.0	1
19	R.	EII		37.756	3.63	0	6.0	2
1913								
Jan. 21	R.	EII		37.783	3.76	0	6.0	2
30	R.	WII		37.831	3.71	0	7.5	3
1914								
Mar. 26	Fn.	EI		37.874	3.36	0	5.5	2½
Apr. 3	Wy.	WI		37.819	3.16	0	5.7	2
5	Hd.	WI		37.857	3.94	0	6.0	2
17	Wy.	EI		37.792	3.15	0	6.0	2
Mean		1913.66		11 11 37.813	+49 58 3.52			
Corr				−0.081	−0.29			

φ Leonis

				h m s	° ′ ″			
1913								
Mar. 18	Hd.	WII		11 12 5.162	−3 9 34.05	I	3.9	3
21	Fn.	WII		5.172	35.24	0	---	4
28	Fn.	EII		5.195	34.59	I	4.9	3
29	Hd.	EII		5.177	34.71	I	4.4	3
Dec. 26	Fn.	WI		5.171	34.71	0	5.0	3
29	Hd.	WI		5.172	33.70	0	5.5	3
1914								
Jan. 5	Hd.	EI		5.197	34.18	I	4.4	3
8	Hd.	EI		5.202	33.95	0	---	3
Mean		1913.62		11 12 5.181	−3 9 34.39			
Corr				−0.081	−0.17			

Weisse$_1$ XI 148

				h m s	° ′ ″			
1913								
Apr. 1	Hd.	EII		11 12 24.495	−6 38 36.68	0	6.5	3½
2	Fn.	EII		24.462	37.20	0	6.5	2½
7	Fn.	WII		24.517	36.96	0	6.7	2½
8	Hd.	WII		24.513	36.97	0	---	3
1914								
Apr. 10	Wy.	WI		24.470	36.89	0	6.5	2
13	Fn.	EI		24.480	37.04	0	6.0	2½
21	Hd.	EI		24.478	36.48	0	6.5	2
30	Wy.	WI		24.473	36.50	0	7.0	3
May 2	Fn.	WI		24.509	37.34	0	6.5	2½
Mean		1913.84		11 12 24.489	−6 38 36.90			
Corr				−0.081	−0.15			

Bradley 1552

				h m s	° ′ ″			
1913								
Mar. 22	Hd.	WII		11 12 39.586	+2 30 20.29	0	5.5	3
24	Fn.	EII		39.576	19.42	0	5.5	3½
30	R.	EII		39.535	18.95	0	5.5	3
Apr. 6	R.	WII		39.582	19.62	0	5.0	2½
1914								
Apr. 8	Hd.	WI		39.588	19.77	0	6.0	3
9	Fn.	WI		39.589	19.46	0	5.5	2
23	Wy.	EI		39.608	19.43	0	5.0	2
26	Hd.	EI		39.590	18.99	0	5.5	3
Mean		1913.76		11 12 39.582	+2 30 19.49			
Corr				−0.081	−0.19			

ν Ursæ Majoris

				h m s	° ′ ″			
				11 13 37.248	+33 35 8.20			
				s	"			
1912								
Mar. 17	R.	EII		−0.020	−0.04	I	3.9	3
18	Fn.	EII		−0.006	−0.21	I	2.8	2½
25	Fn.	WII		+0.006	+0.28	I	3.1	1½
26	Hd.	WII		+0.030	−0.39	I	2.9	3
1915								
Apr. 6	Wy.	EI		+0.012	+0.16	0	---	3
7	An.	EI		+0.062	−0.04	II	4.1	2
8	Hd.	EI		+0.036	−0.46	I	2.9	2
13	Fn.	WI		+0.006	+0.18	I	3.4	2½
15	Hd.	WI		−0.044	+0.17	I	3.4	2
30	Wy.	EI		+0.003	----	0	---	3
May 13	Hd.	WI		+0.025	----	I	---	2
17	Hd.	EI		+0.017	----	I	3.4	3

				s	″	″			
1916									
Mar.	10	Fn.	WI	−0.054		----	I	3.9	2½
June	*1*	*Fn.*	*EI*	*−0.084*	*−0.03*	*−0.03*	*0*	---	*1½*
	2	*Hd.*	*EI*	*−0.070*	*−0.83*	*−0.83*	*0*	---	*2*
	5	*Hd.*	*EI*	*−0.050*	*−1.03*	*−1.03*	*0*	---	*2½*
	12	*Wy.*	*EI*	*−0.028*	*−0.71*	*−0.72*	*0*	---	*3*
	22	*Fn.*	*WI*	*−0.053*	*−0.04*	*−0.04*	*0*	---	*3*
	26	*Hd.*	*WI*	*−0.061*	*−0.97*	*−0.96*	*0*	---	*3*
Sept.	*19*	*Wy.*	*EI*	*−0.008*	*−0.16*	*−0.13*	*0*	---	*3½*
Oct.	*8*	*Hd.*	*WI*	*+0.113*	*−1.41*	*−1.39*	*0*	---	*3½*
	22	*Wy.*	*WI*	*−0.038*	*−0.42*	*−0.41*	*0*	---	*3½*
	23	*Hd.*	*WI*	*−0.066*	*−0.19*	*−0.18*	*0*	---	*3*
	26	*Hd.*	*EI*	*−0.022*	*+0.14*	*+0.14*	*0*	---	*3*
Nov.	*8*	*Wy.*	*EI*	*−0.003*	*−0.80*	*−0.79*	*0*	---	*3½*
	9	*Fn.*	*EI*	*−0.024*	*−1.20*	*−1.19*	*0*	---	*3*
	15	*Wy.*	*WI*	*−0.011*	*−0.53*	*−0.53*	*0*	---	*3½*
	19	*Fn.*	*WI*	*−0.054*	*−0.48*	*−0.51*	*0*	---	*3*
	21	*Hd.*	*WI*	*−0.011*	----	----	*0*	---	*2*
	23	*Fn.*	*WI*	*+0.008*	----	----	*0*	---	*3*
	26	*Wy.*	*WI*	*−0.061*	*−0.14*	*−0.14*	*I*	---	*3*
Dec.	6	Fn.	EI	−0.044		----	I	3.4	3
	7	Hd.	EI	−0.014		0.00	I	2.9	2
1917									
Apr.	9	Hd.	WI	−0.020		+0.02	I	3.9	3
	10	Fn.	WI	−0.024		−0.36	I	3.9	2½
	16	Fn.	WI	−0.014		−0.04	0	---	2½
	30	Hd.	EI	−0.003		+0.04	0	---	3
May	1	Fn.	EI	−0.046		−1.05	I	3.9	3
	3	Hd.	EI	−0.027		+0.24	I	3.4	2
	10	Fn.	WI	−0.006		−0.13	I	3.9	2½
	11	Wy.	WI	+0.033		−0.38	I	3.9	2½
	14	Wy.	WI	−0.002		−0.35	I	3.4	2
	15	Hd.	WI	+0.008		+0.40	I	---	3
	18	Hd.	WI	−0.022		+0.19	I	---	3
June	*4*	*Wy.*	*WI*	*+0.019*	*+0.02*	*+0.02*	*0*	---	*3*
Sept.	*17*	*Wy*	*EII*	*+0.023*	*−1.33*	*−1.31*	*0*	---	*3½*
Oct.	*21*	*Hd.*	*EII*	*−0.022*	*−0.62*	*−0.61*	*0*	---	*3½*
	31	*Hd.*	*EII*	*−0.010*	*−0.54*	*−0.53*	*0*	---	*3½*
Nov.	*1*	*Fn.*	*EII*	*+0.030*	*−0.14*	*−0.13*	*0*	---	*3*
	18	*Hd.*	*WII*	*+0.004*	*+0.12*	*+0.13*	*0*	---	*3*
1918									
Mar.	29	Wy.	WII	−0.013		−0.37	I	2.9	2½
May	2	Fn.	EII	−0.017		−0.69	I	3.9	2½
	8	Fn.	EII	−0.024		−0.57	I	3.4	2
Mean		1916.10		−0.006		−0.14			
		1916.16							
Corr				−0.081		−0.26			

Bradley 1555

				h	m	s	°	′	″			
1913												
Feb.	8	R.	WII	11	14	13.808	+38	40	45.69	0	5.0	2
	13	R.	WII			13.790			45.95	I	4.9	2
	19	Fn.	EII			13.885			45.16	0	5.0	2
Mar.	5	Fn.	EII			13.828			45.96	0	5.0	1½
1914												
Feb.	17	Fn.	WI			13.825			44.46	0	5.0	3
Mar.	3	Fn.	WI			13.797			45.14	0	6.0	2½
	22	Wy.	EI			13.902			46.45	0	6.0	3
	23	Fn.	EI			13.817			45.91	0	5.5	2
	24	Wy.	EI			13.833			45.29	0	5.0	2
Mean		1913.72		11	14	13.832	+38	40	45.56			
Corr						−0.081			−0.27			

Weisse$_1$ XI 193[1]

				h	m	s	°	′	″			
1912												
Apr.	19	Hd.	EII	11	14	47.918	−1	9	31.49	0	7.0	2
	20	Fn.	WII			47.884			32.41	0	6.8	2½
	23	Hd.	WII			47.901			31.62	0	6.8	2
May	1	R.	EII			47.865			31.29	0	7.0	3½
1915												
Dec.	23	Hd.	WI			47.861			32.37	0	7.0	3
1916												
Jan.	3	Wy.	EI			47.882			32.71	0	7.5	3
1916												
Jan.	7	Wy.	EI			47.823			32.77	0	7.0	3
Feb.	9	Hd.	WI			47.862			32.67	0	7.0	3
Mean		1914.17		11	14	47.874	−1	9	32.17			
Corr						−0.081			−0.18			

δ Crateris

				h	m	s	°	′	″			
				11	14	50.363	−14	17	28.09			
1912												
Dec.	19	R.	EII			+0.033			+0.60	I	4.4	4
	21	R.	EII			+0.059			+0.24	I	4.4	2½
	22	R.	WII			+0.053			+0.19	I	4.4	2½
	28	R.	WII			+0.049			−0.14	I	4.4	2
1913												
Jan.	18	R.	EII			+0.062			+0.37	I	3.4	2½
1914												
Jan.	9	R.	EI			+0.067			+0.13	I	4.4	3½
	17	Wy.	WI			+0.097			−0.12	I	2.9	2½
	27	R.	WI			+0.072			−0.19	I	---	3½
	28	Fn.	WI			+0.074			−0.48	I	3.9	3½
Feb.	7	Wy.	EI			−0.035			+1.45	I	3.9	3
1916												
Mar.	23	Hd.–Wy.	WI			-----			−0.04	I	3.9	3
	24	Hd.–Wy.	WI			-----			−1.42	0	---	2½ R.
	31	Hd.–Wy.	EI			-----			+0.33	I	3.9	3
Apr.	10	Hd.–Wy.	EI			-----			−1.62	I	---	2½ R.
	15	Hd.–Fn.	EI			-----			−0.40	I	3.4	2
	18	Hd.–Fn.	EI			-----			−1.26	I	---	3 R.
	19	Hd.–Fn.	WI			-----			−0.55	0	---	3 R.
	20	Hd.–Wy.	WI			-----			+0.38	0	---	3½
Mean		1913.53				+0.053			+0.17			
		1914.31										
Corr						−0.081			−0.12			

σ Leonis

				h	m	s	°	′	″			
				11	16	29.770	+6	31	21.95			
1912												
Mar.	7	Fn.	WII			−0.001			−0.53	I	3.8	3
	13	Fn.	EII			−0.006			−0.08	I	3.9	3
	16	Fn.	EII			+0.015			−0.04	I	3.7	2½
Apr.	3	R.	WII			+0.021			+0.34	I	3.4	1
1915												
Dec.	21	Hd.	WI			+0.027			−0.99	I	3.9	3
	22	Fn.	WI			+0.055			−0.45	I	4.4	3
1916												
Jan.	8	Fn.	EI			−0.001			−0.37	I	3.9	3
	14	Hd.	EI			+0.032			−0.05	I	3.4	2
Mean		1914.11				+0.018			−0.27			
Corr						−0.081			−0.20			

249 B. Ursæ Majoris

				h	m	s	°	′	″			
1913												
Jan.	27	Fn.	EII	11	17	30.84	+64	49	23.83	0	6.4	3
	29	Fn.	WII			31.04			23.84	0	6.3	2
Feb.	4	R.	WII			30.91			24.32	0	6.0	2½
	25	R.	EII			31.03			23.85	0	6.0	2
1914												
Mar.	26	Fn.	EI			31.05			23.97	0	6.0	2½
Apr.	3	Wy.	WI			31.01			23.09	0	6.5	2
	4	Hd.	WI			31.07			23.71	0	7.0	2
	13	Fn.	EI			31.00			23.71	0	6.0	2
Mean		1913.68		11	17	30.994	+64	49	23.79			
Corr						−0.081			−0.33			

[1] Double; n. fol. component observed.

ι Leonis [1]

			h m s	° ′ ″			
			11 19 14.027	+11 1 30.00			
1913							
Jan. 14	R.	WII	+0.090	+0.02	I 3.9	1	
19	R.	EII	+0.091	+0.38	I 4.4	2	
21	R.	EII	+0.085	+0.66	I 4.4	3½	
30	R.	WII	+0.048	−0.09	0 ---	3½	
1914							
Mar. 14	Hd.	WI	+0.090	+0.13	I 4.4	3	
22	Wy.	EI	+0.120	+0.33	0 ---	3½	
23	Fn.	EI	+0.124	+0.54	I 3.9	2	
Apr. 5	Hd.	WI	+0.072	+0.13	I 3.4	2	
1916							
Mar. 23	Hd.–Wy.	WI	-----	−1.01	I ---	2	R.
24	Hd.–Wy.	WI	-----	+0.25	0 ---	2½	
31	Hd.–Wy.	EI	-----	−0.63	I ---	2	R.
Apr. 10	Hd.–Wy.	EI	-----	+0.53	I 3.9	2	
15	Hd.–Fn.	EI	-----	−0.52	I ---	2	R.
18	Hd.–Fn.	EI	-----	+0.52	I 4.4	3	
19	Hd.–Fn.	WI	-----	−0.23	I 4.4	3	
20	Hd.–Wy.	WI	-----	−0.28	0 ---	3½	R.
Mean		1913.64		+0.090	+0.26		
		1914.52					
Corr				−0.081	−0.21		

γ Crateris

			h m s	° ′ ″			
1912							
Mar. 17	R.	EII	11 20 23.080	−17 11 22.31	0 ---	5	
18	Fn.	EII	23.072	22.73	0 5.2	3	
25	Fn.	WII	23.051	23.63	0 3.9	3	
26	Hd.	WII	23.052	23.20	0 ---	3½	
1915							
Apr. 7	An.	EI	23.036	22.53	I 4.9	3½	
8	Hd.	EI	23.192	22.97	I 4.4	3	
15	Hd.	WI	23.112	22.08	I 4.4	3	
17	An.	WI	23.105	22.56	I 5.4	3½	
Mean		1913.75	11 20 23.088	−17 11 22.75			
Corr			−0.081	−0.10			

Oeltzen 11751

			h m s	° ′ ″			
1912							
May 1	R.	EII	11 20 54.007	+52 37 37.76	0 7.5	3	
2	Fn.	EII	54.059	37.74	0 7.0	2½	
4	R.	WII	54.106	37.86	0 7.5	1½	
9	Fn.	WII	54.059	38.94	0 7.3	2	
1915							
Apr. 19	Fn.	WI	53.984	39.15	0 ---	2½	
21	An.	WI	54.093	37.42	0 7.0	2½	
May 10	Hd.	EI	54.100	38.15	0 7.5	2	
11	Fn.	EI	54.075	38.18	0 ---	2½	
Mean		1913.84	11 20 54.060	+52 37 38.15			
Corr			−0.081	−0.30			

Bradley 1565

			h m s	° ′ ″			
1912							
Dec. 21	R.	EII	11 20 54.899	+16 57 4.85	0 6.0	2	
22	R.	WII	54.878	4.24	0 6.5	2½	
28	R.	WII	54.884	4.85	0 6.0	2	
1913							
Jan. 18	R.	EII	54.909	5.44	0 5.5	2	
1914							
Jan. 9	R.	EI	54.857	4.30	0 6.0	2½	
28	Fn.	WI	54.884	5.08	0 6.0	2½	
31	Fn.	WI	54.857	5.14	0 6.0	2	
Feb. 9	Hd.	EI	54.857	4.84	0 6.0	3	
Mean		1913.54	11 20 54.878	+16 57 4.84			
Corr			−0.081	−0.22			

Lalande 21737

			h m s	° ′ ″			
1912							
Apr. 19	Hd.	EII	11 20 59.609	+27 14 30.71	0 7.0	2	
20	Fn.	WII	59.659	30.44	0 7.3	2	
23	Hd.	WII	59.682	30.93	0 7.0	2	
27	R.	EII	59.652	30.29	0 7.5	2	
1915							
Apr. 24	An.	WI	59.641	30.48	0 7.0	2½	
Dec. 23	Hd.	WI	59.586	30.81	0 7.0	3	
1916							
Jan. 3	Wy.	EI	59.536	30.61	0 7.0	3	
7	Wy.	EI	59.598	30.65	0 7.0	3	
Feb. 9	Hd.	WI	59.565	31.03	0 7.5	3	
Mean		1914.30	11 20 59.614	+27 14 30.66			
Corr			−0.081	−0.24			

29 G. Centauri

			h m s	° ′ ″			
1913							
Feb. 7	Fn.	WII	11 21 7.537	−35 34 9.28	0 ---	4	
8	R.	WII	7.490	10.10	0 6.0	2½	
Mar. 5	Fn.	EII	7.481	7.97	0 ---	3½	
28	Fn.	EII	7.502	7.52	0 6.5	3½	
1914							
Jan. 5	Hd.	EI	7.518	8.27	0 7.0	3½	
8	Hd.	EI	7.479	7.52	0 ---	5	
Feb. 21	Wy.	WI	7.476	8.93	0 6.5	3	
Mar. 3	Fn.	WI	7.482	8.06	0 6.0	4	
Mean		1913.62	11 21 7.496	−35 34 8.46			
Corr			−0.081	+0.15			

Weisse$_1$ XI 321

			h m s	° ′ ″			
1912							
May 3	Hd.	EII	11 21 38.485	+9 9 17.76	0 7.2	1½	
10	Hd.	WII	38.493	17.82	0 7.0	3	
16	Fn.	WII	38.505	17.27	0 6.8	2	
18	Hd.	EII	38.502	17.35	0 6.8	2	
1916							
Jan. 8	Fn.	EI	38.505	18.34	0 7.0	3	
14	Hd.	EI	38.531	18.22	0 6.5	2	
Mar. 3	Hd.	WI	38.467	17.62	0 6.5	3	
4	Wy.	WI	38.493	17.68	0 7.0	3	
Mean		1914.23	11 21 38.498	+9 9 17.76			
Corr			−0.081	−0.21			

Lalande 21780

			h m s	° ′ ″			
1913							
Feb. 13	R.	WII	11 22 4.902	−20 51 40.32	0 7.5	2	
14	Fn.	WII	4.879	42.12	0 7.3	3½	
25	R.	EII	4.858	41.37	0 7.5	2	
Mar. 11	Hd.	EII	4.835	41.17	0 ---	3	
1914							
Feb. 26	Hd.	EI	4.867	41.92	0 8.0	3½	
27	Fn.	EI	4.814	41.68	0 7.5	3	
Apr. 3	Wy.	WI	4.895	42.31	0 7.5	2½	
6	Fn.	WI	4.862	42.04	0 7.5	3	
Mean		1913.68	11 22 4.864	−20 51 41.62			
Corr			−0.081	−0.07			

κ Crateris

			h m s	° ′ ″			
1912							
Mar. 7	Fn.	WII	11 22 37.469	−11 51 43.31	0 5.8	3	
13	Fn.	EII	37.429	43.88	0 6.3	3	
16	Fn.	EII	37.431	42.86	0 6.2	3	
Apr. 3	R.	WII	37.450	43.43	0 6.5	4	
1916							
Jan. 20	Wy.	EI	37.510	43.79	0 ---	3	
25	Hd.	EI	37.440	43.69	0 6.0	2	
Feb. 22	Fn.	WI	------	44.14	0 ---	3	

[1] Double; s. pr. component observed.

			h m s	° ′ ″			
1916							
Feb. 29	Hd.	WI	37.461	44.66	0	6.0	2½
Mar. 10	Fn.	WI	37.459	43.92	0	6.0	3
Mean	1914.16		11 22 37.456	−11 51 43.74			
	1914.38						
Corr			−0.081	−0.13			

τ Leonis

			h m s	° ′ ″			
			11 23 18.558	+3 21 7.27			
1913							
Mar. 17	Fn.	WII	+0.008	+0.34	0	5.5	2½
20	R.	WII	+0.010	−0.51	0	5.0	3½
29	Hd.	EII	+0.059	−0.26	0	5.5	3
30	R.	EII	+0.061	−1.06	0	5.0	3½
1914							
Mar. 24	Wy.	EI	+0.022	+0.30	0	5.5	2½
26	Fn.	EI	+0.075	+0.01	0	5.5	3
Apr. 4	Hd.	WI	+0.009	−0.47	0	6.5	2
5	Hd.	WI	+0.029	+0.13	I	4.9	3
Mean	1913.74		+0.034	−0.19			
Corr			−0.081	−0.19			

Lacaille 4758

			h m s	° ′ ″			
1912							
May 1	R.	EII	11 25 10.092	−27 32 4.21	0	---	5
2	Fn.	EII	10.093	4.63	0	---	3½
9	Fn.	WII	10.048	3.65	0	---	4
10	Hd.	WII	10.066	4.26	0	7.5	3
1915							
Dec. 23	Hd.	WI	10.083	5.89	0	8.0	4
1916							
Jan. 14	Hd.	EI	10.004	3.26	0	7.0	3
23	Fn.	EI	10.047	3.98	0	7.0	3
Feb. 9	Hd.	WI	10.085	5.93	0	7.5	3½
Mean	1914.20		11 25 10.065	−27 32 4.48			
Corr			−0.081	0.00			

Weisse, XI 413

			h m s	° ′ ″			
1913							
Jan. 14	R.	WII	11 25 18.435	+30 27 55.32	0	7.0	1
18	R.	EII	18.459	56.34	0	7.0	1½
19	R.	EII	18.478	55.90	0	7.5	2
Feb. 4	R.	WII	18.477	55.58	0	7.0	2
1914							
Apr. 13	Fn.	EI	18.449	55.38	0	7.0	2
17	Wy.	EI	18.447	55.30	0	7.0	3
30	Wy.	WI	18.470	55.49	0	7.5	3
May 2	Fn.	WI	18.413	55.05	0	7.0	2½
Mean	1913.68		11 25 18.454	+30 27 55.54			
Corr			−0.081	−0.25			

Groombridge 1782

			h m s	° ′ ″			
1913							
Mar. 21	Fn.	WII	11 25 31.74	+81 37 22.47	0	6.5	3½
22	Hd.	WII	31.45	23.11	0	6.0	2½
24	Fn.	EII	31.58	23.15	0	6.5	3½
28	Fn.	EII	31.59	22.89	0	6.5	2½
1914							
Mar. 22	Wy.	EI	31.42	22.71	0	6.5	3
23	Fn.	EI	31.45	23.16	0	6.0	2½
Apr. 9	Fn.	WI	32.09	22.24	0	6.0	2½
10	Wy.	WI	31.41	21.61	0	6.5	2½
Mean	1913.74		11 25 31.591	+81 37 22.67			
Corr			−0.081	−0.38			

Groombridge 1782 s. p.

			h m s	° ′ ″			
1912							
Oct. 14	Fn.	WII	11 25 31.48	+81 37 21.34	0	6.4	3
15	R.	WII	31.58	22.00	0	6.0	2
28	Fn.	EII	31.56	21.88	0	6.1	3½
1912							
Oct. 29	R.	EII	31.52	21.74	0	---	4½
1913							
Nov. 4	R.	EI	31.45	21.71	0	6.0	3½
5	Hd.	EI	31.51	21.80	0	6.5	3½
11	R.	WI	31.75	21.41	0	6.0	3
12	Hd.	WI	31.53	21.95	0	6.5	3½
Mean	1913.33		11 25 31.548	+81 37 21.73			
Corr			−0.081	+0.46			

58 Ursæ Majoris

			h m s	° ′ ″			
1912							
Mar. 17	R.	EII	11 25 39.161	+43 40 3.04	0	---	4
25	Fn.	WII	39.191	3.32	0	5.8	1½
26	Hd.	WII	39.260	3.06	0	6.0	3
Apr. 19	Hd.	EII	39.157	2.99	0	6.0	2
1915							
Apr. 19	Fn.	WI	39.117	4.64	0	---	2½
21	An.	WI	39.120	2.84	0	6.5	2½
May 10	Hd.	EI	39.153	2.94	0	6.0	2
11	Fn.	EI	39.170	3.08	0	---	2½
Mean	1913.79		11 25 39.166	+43 40 3.24			
Corr			−0.081	−0.28			

e Leonis

			h m s	° ′ ″			
1912							
Apr. 20	Fn.	WII	11 25 42.999	−2 30 24.34	0	5.3	2½
25	Fn.	EII	43.058	24.66	0	---	2
27	R.	EII	42.997	25.73	0	5.5	4
May 4	R.	WII	42.966	24.16	I	---	--
1915							
Apr. 7	An.	EI	42.999	24.83	I	5.4	3½
8	Hd.	EI	43.052	24.69	I	4.4	2
15	Hd.	WI	43.025	24.75	I	4.9	3
17	An.	WI	43.064	24.99	I	5.4	3
Mean	1913.80		11 25 43.020	−2 30 24.77			
Corr			−0.081	−0.17			

λ Draconis

			h m s	° ′ ″			
			11 26 4.400	+69 49 40.38			
			s	″ ″			
1913							
Jan. 21	R.	EII	−0.12	+0.55	I	3.9	2
27	Fn.	EII	−0.17	+0.87	I	3.6	2½
30	R.	WII	−0.03	+0.22	0	---	3½
Feb. 7	Fn.	WII	+0.03	+0.68	I	4.4	3½
Apr. 21	Hd.	EI	−0.09	+0.21	0	---	2
23	Wy.	EI	−0.01	+1.09	I	3.9	3
May 6	Fn.	WI	+0.03	+0.40	0	---	2
9	Fn.	WI	+0.01	−0.52	0	5.0	2
1916							
June 1	*Fn.*	*EI*	*−0.08*	*+0.23*	*+0.22*	*0*	--- *2*
2	*Hd.*	*EI*	*−0.05*	*+0.11*	*+0.08*	*0*	--- *2*
5	*Hd.*	*EI*	*−0.08*	*−0.15*	*−0.17*	*0*	--- *2½*
12	*Wy.*	*EI*	*−0.04*	*+0.47*	*+0.53*	*0*	--- *3*
Oct. 8	*Hd.*	*WI*	*+0.03*	*+0.22*	*+0.03*	*0*	--- *3½*
22	*Wy.*	*WI*	*+0.05*	*+1.11*	*+1.06*	*0*	--- *3½*
23	*Hd.*	*WI*	*−0.04*	*+0.36*	*+0.29*	*0*	--- *3*
26	*Hd.*	*EI*	*−0.08*	*+0.28*	*+0.22*	*0*	--- *3½*
Nov. 1	*Hd.*	*EI*	*−0.07*	*+0.71*	*+0.51*	*0*	--- --
8	*Wy.*	*EI*	*−0.06*	*+0.02*	*−0.04*	*0*	--- *3½*
9	*Fn.*	*EI*	*−0.01*	*−0.19*	*−0.19*	*0*	--- *3*
1917							
Apr. 9	Hd.	WI	−0.12	+0.08	I	4.4	2
10	Fn.	WI	−0.06	+1.57	0	4.5	3
16	Fn.	WI	+0.05	+0.78	0	---	2½
May 1	Fn.	EI	+0.07	[−1.40]	0	4.5	3
3	Hd.	EI	−0.07	+0.12	I	3.9	2
10	Fn.	WI	−0.01	+0.93	0	5.0	2½
11	Wy.	WI	+0.09	+0.65	I	4.4	2½
14	Wy.	WI	−0.05	+0.59	I	3.4	2½
15	Hd.	WI	+0.05	+0.28	I	---	3
18	Hd.	WI	−0.04	+1.13	I	---	3

			s	″	″			
1917								
June 4	*Wy.*	*WI*	*−0.06*	*+0.94*	*+0.96*	*0*	---	*3½*
Oct. 31	*Hd.*	*EII*	*−0.03*	*+0.61*	*+0.52*	*0*	---	*3½*
1918								
May 2	Fn.	EII	−0.02		+0.24	I	3.9	2½
8	Fn.	EII	+0.06		+0.18	I	3.9	2
Mean		1915.98	−0.020		+0.53			
		1915.91						
Corr			−0.081		−0.34			

λ Draconis s. p.

	h	m	s	°	′	″			
	11	26	4.416	+69	49	40.39			
1911									
Oct. 16	Fn.	WII	+0.05			−0.46	0	5.4	3½
18	Fn.	WII	−0.05			−0.49	I	3.9	3½
Nov. 3	Hd.	EII	−0.12			−0.64	I	3.9	2
7	R.	EII	−0.05			----	I	---	3
10	Hd.	EII	−0.12			−1.03	I	4.4	3½
1915									
Aug. 31	Wy.	WI	+0.11			−0.44	0	5.0	4
Sept. 7	Wy.	WI	+0.01			−0.68	0	6.0	3
8	Hd.	WI	+0.07			−0.81	I	3.9	3
13	Hd.	EI	−0.06			−0.81	I	4.4	3
14	Wy.	EI	−0.10			−0.73	I	4.9	3
1916									
Nov. 3	Fn.	EI	----			−1.57	0	---	3
10	Fn.	EI	----			+0.06	0	---	3½
20	Fn.	WI	----			+0.74	0	---	3½
24	Fn.	WI	----			+0.42	0	---	4
1917									
Sept. 18	Wy.	EII	----			−1.07	0	---	4
Nov. 20	Fn.	WII	----			−0.85	0	---	4
Mean		1913.76	−0.026			−0.56			
		1915.26							
Corr			−0.081			+0.62			

ξ Hydræ

	h	m	s	°	′	″			
	11	28	34.325	−31	21	34.82			
1913									
Mar. 17	Fn.	WII	+0.020			+0.10	0	---	4½
20	R.	WII	+0.057			−1.20	0	---	5
21	Fn.	WII	+0.041			−0.80	0	---	4
29	Hd.	EII	+0.039			+0.47	0	---	3
30	R.	EII	+0.054			−1.12	0	---	5
1914									
Feb. 26	Hd.	EI	+0.039			−1.31	0	---	4
27	Fn.	EI	+0.018			+0.81	0	---	3½
Mar. 3	Fn.	WI	+0.018			+0.14	0	---	4
14	Hd.	WI	+0.096			+0.76	0	---	4½
Mean		1913.65	+0.042			−0.24			
Corr			−0.081			+0.06			

Bradley 1582

			h	m	s	°	′	″			
1912											
Mar. 7	Fn.	WII	11	29	45.584	+3	33	36.85	0	5.9	3
13	Fn.	EII			45.608			36.29	0	6.0	2½
16	Fn.	EII			45.616			36.81	0	---	3
Apr. 2	Hd.	WII			45.581			37.26	0	---	5
1915											
Dec. 23	Hd.	WI			45.560			36.28	0	6.0	3
1916											
Jan. 3	Wy.	EI			45.580			35.41	0	6.0	3
7	Wy.	EI			45.517			35.77	0	6.0	3
Feb. 15	Hd.	WI			45.553			35.82	0	---	3
Mean		1914.12	11	29	45.575	+3	33	36.31			
Corr					−0.081			−0.19			

Weisse$_2$ XI 509

			h	m	s	°	′	″			
1913											
Mar. 31	Fn.	EII	11	30	22.164	+20	56	20.87	0	6.8	2½
Apr. 1	Hd.	EII			22.147			20.82	0	6.5	3
6	R.	WII			22.167			20.47	0	6.0	1½
7	Fn.	WII			22.152			22.27	0	6.3	2
1914											
Mar. 26	Fn.	EI			22.178			20.49	0	6.0	2½
Apr. 4	Hd.	WI			22.116			20.80	0	7.5	2
5	Hd.	WI			22.129			20.71	0	6.5	2
13	Fn.	EI			22.174			20.44	0	6.5	2
Mean		1913.76	11	30	22.153	+20	56	20.61			
Corr					−0.081			−0.23			

Weisse$_1$ XI 474

			h	m	s	°	′	″			
1912											
Apr. 3	R.	WII	11	30	23.640	−3	51	45.44	0	6.0	3
9	Hd.	WII			23.592			46.48	0	6.2	3
19	Hd.	EII			23.625			45.48	0	6.5	2
25	Fn.	EII			23.607			45.45	0	---	2½
1915											
Apr. 21	An.	WI			23.653			46.45	0	---	3
24	An.	WI			23.642			46.03	0	6.5	2½
May 6	Fn.	EI			23.626			44.82	0	---	3
10	Hd.	EI			23.588			45.07	0	6.5	2
Mean		1913.81	11	30	23.622	−3	51	45.65			
Corr					−0.081			−0.16			

Weisse$_1$ XI 481

			h	m	s	°	′	″			
1913											
Jan. 14	R.	WII	11	30	52.149	+11	41	12.78	0	7.0	1
18	R.	EII			52.164			13.70	0	7.0	1½
19	R.	EII			52.140			13.36	0	7.5	1½
Feb. 8	R.	WII			52.146			12.98	0	---	3
1914											
Apr. 9	Fn.	WI			52.179			12.77	0	6.5	2
10	Wy.	WI			52.164			12.97	0	6.5	2½
17	Wy.	EI			52.180			13.09	0	---	2½
21	Hd.	EI			52.152			13.68	0	---	2
Mean		1913.67	11	30	52.159	+11	41	13.17			
Corr					−0.081			−0.21			

Groombridge 1803

			h	m	s	°	′	″			
1912											
Mar. 17	R.	EII	11	32	4.58	+78	5	38.07	0	7.0	5
18	Fn.	EII			4.51			37.27	0	6.2	2½
25	Fn.	WII			4.75			37.97	0	---	1½
26	Hd.	WII			4.62			38.13	0	6.5	4
1916											
Jan. 8	Fn.	EI			4.50			38.14	0	6.5	3
14	Hd.	EI			4.72			38.69	0	6.5	2
Feb. 9	Hd.	WI			4.72			38.56	0	6.5	3
22	Fn.	WI			----			38.50	0	---	3
Mar. 3	Hd.	WI			4.77			38.31	0	7.0	2½
Mean		1914.15	11	32	4.646	+78	5	38.18			
		1914.37									
Corr					−0.081			−0.36			

Groombridge 1803 s. p.

			h	m	s	°	′	″			
1912											
Oct. 15	R.	WII	11	32	4.49	+78	5	37.23	0	6.5	2
16	Fn.	WII			4.35			35.14	0	6.8	3½
26	Fn.	EII			4.89			36.40	0	---	3½
28	Fn.	EII			4.76			36.17	0	6.2	3½
1913											
Nov. 13	Fn.	WI			4.56			36.86	0	---	3½
17	Fn.	WI			4.59			36.76	0	6.5	3
Dec. 5	Fn.	EI			4.79			36.70	0	7.0	3½
9	R.	EI			4.57			37.42	0	6.0	2
Mean		1913.36	11	32	4.625	+78	5	36.58			
Corr					−0.081			+0.50			

θ Crateris

				h	m	s	°	′	″			
1912												
Apr. 27	R.	EII		11	32	6.949	−9	18	16.22	0	---	5
May 1	R.	EII				6.960			15.69	I	4.1	4½
4	R.	WII				6.955			15.53	0	5.5	3
9	Fn.	WII				6.940			14.77	0	5.1	3
1915												
Apr. 7	An.	EI				6.915			16.77	I	4.9	3
8	Hd.	EI				6.948			16.25	I	4.4	2½
17	An.	WI				6.995			17.13	I	5.4	3½
19	Fn.	WI				6.932			16.44	0	---	2½
Mean	1913.81			11	32	6.949	−9	18	16.10			
Corr						−0.081			−0.15			

υ Leonis

				h	m	s	°	′	″				
				11	32	20.440	−0	19	36.12				
1913													
Apr. 2	Fn.	EII				+0.018			+0.31	0	5.0	2	
8	Hd.	WII				+0.022			−0.33	I	---	3	
16	Hd.	WII				+0.057			+0.29	I	3.9	3	
21	Hd.	EII				+0.016			−0.17	I	4.4	2	
1914													
Mar. 23	Fn.	EI				+0.070			−0.27	I	4.4	2½	
24	Wy.	EI				+0.034			+0.06	0	---	2	
Apr. 3	Wy.	WI				+0.029			−1.48	I	4.4	2	
6	Fn.	WI				+0.042			−0.94	I	4.4	2½	
1916													
Mar. 23	Hd.–Wy.	WI				-----			−0.05	I	4.9	2	
24	Hd.–Wy.	WI				-----			−1.25	0	---	3	R.
31	Hd.–Wy.	EI				-----			−0.01	I	3.9	2	
Apr. 10	Hd.–Wy.	EI				-----			−1.56	I	---	2	R.
15	Hd.–Fn.	EI				-----			+0.24	I	4.4	2½	
18	Hd.–Fn.	EI				-----			−1.27	I	---	3	R.
19	Hd.–Fn.	WI				-----			+0.39	I	---	3	R.
20	Hd.–Wy.	WI				-----			+0.41	0	---	3½	
Mean	1913.76					+0.036			−0.16				
	1914.60												
Corr						−0.081			−0.18				

60 Ursæ Majoris

				h	m	s	°	′	″			
1913												
Mar. 20	R.	WII		11	33	43.835	+47	20	0.47	0	6.0	3
21	Fn.	WII				43.811			0.29	0	6.4	3
24	Fn.	EII				43.789			0.04	0	6.5	3½
28	Fn.	EII				43.822			0.37	0	6.5	2
1914												
Jan. 9	R.	EI				43.740			0.53	0	6.0	2
Feb. 9	Hd.	EI				43.799			0.09	0	6.0	3
21	Wy.	WI				43.774			0.06	0	5.5	2
Mar. 3	Fn.	WI				43.836			0.27	0	6.0	3
Mean	1913.67			11	33	43.801	+47	20	0.26			
Corr						−0.081			−0.28			

Lalande 22104

				h	m	s	°	′	″			
1912												
Mar. 7	Fn.	WII		11	35	17.330	−16	7	16.97	0	6.0	3½
13	Fn.	EII				17.304			17.79	0	6.5	3
16	Fn.	EII				17.308			16.76	0	6.2	2½
Apr. 2	Hd.	WII				17.299			15.07[1]	0	---	5
1916												
Jan. 3	Wy.	EI				17.285			17.40	0	6.5	3½
20	Wy.	EI				17.358			16.91	0	6.5	3
Feb. 15	Hd.	WI				17.363			17.31	0	---	3
Mar. 4	Wy.	WI				17.387			17.35	0	6.5	3
Mean	1914.15			11	35	17.329	−16	7	16.94			
Corr						−0.081			−0.11			

[1] Seeing very poor.

o Hydræ

				h	m	s	°	′	″			
1913												
Feb. 14	Fn.	WII		11	35	44.493	−34	14	46.92	0	5.3	4
15	R.	WII				44.410			45.30	0	6.0	3½
19	Fn.	EII				44.448			45.22	0	6.0	3½
25	R.	EII				44.429			44.61	0	6.0	2½
1914												
Mar. 22	Wy.	EI				44.403			44.67	0	---	3½
24	Wy.	EI				44.407			44.29	0	5.6	3
Apr. 3	Wy.	WI				44.381			46.25	0	5.5	3
5	Hd.	WI				44.423			44.59	0	6.0	3
Mean	1913.69			11	35	44.424	−34	14	45.23			
Corr						−0.081			+0.12			

Lalande 22115

				h	m	s	°	′	″			
1912												
Apr. 3	R.	WII		11	36	1.758	−7	54	22.96	0	8.0	3
9	Hd.	WII				1.742			24.22	0	7.2	3½
11	Fn.	EII				1.734			23.85	0	---	4
16	Hd.	EII				1.756			23.93	0	---	3
1915												
Apr. 21	An.	WI				1.784			24.13	0	---	3
24	An.	WI				1.775			23.95	0	7.5	2½
May 6	Fn.	EI				1.761			23.30	0	---	3
17	Hd.	EI				1.804			23.12	0	7.5	3
19	Fn.	EI				1.750			22.26	0	7.5	2½
Mean	1913.98			11	36	1.763	−7	54	23.52			
Corr						−0.081			−0.15			

Bradley 1593

				h	m	s	°	′	″			
1913												
Jan. 14	R.	WII		11	36	18.864	+34	42	34.86	I	4.9	1
18	R.	EII				18.847			35.61	0	5.5	1
19	R.	EII				18.811			35.42	0	5.5	1½
30	R.	WII				18.846			34.91	0	---	2
1914												
Jan. 5	Hd.	EI				18.853			34.41	0	6.0	2
8	Hd.	EI				18.844			34.82	0	---	2
Feb. 2	Hd.	WI				18.873			34.62	0	---	2
17	Fn.	WI				18.919			35.24	0	5.5	3
1915												
May 13	Hd.	WI				18.859			-----	0	---	2
14	Fn.	WI				18.847			-----	0	---	2
27	Wy.	WI				18.825			-----	0	6.0	2
1917												
May 22	Fn.	WI				18.836			-----	0	---	3
1918												
May 6	Fn.	EII				18.859			-----	0	6.5	2
Mean	1914.64			11	36	18.853	+34	42	34.99			
	1913.56											
Corr						−0.081			−0.26			

3 Draconis

				h	m	s	°	′	″				
				11	37	27.742	+67	14	35.16				
1912													
Apr. 10	R.	WII				0.00			+0.50	0	5.5	2	
25	Fn.	EII				−0.11			−0.44	0	5.8	2	
27	R.	EII				−0.02			−0.12	0	6.0	2	
May 4	R.	WII				−0.01			+0.19	0	5.5	1½	
1915													
Apr. 7	An.	EI				0.00			+0.53	I	4.9	2	
8	Hd.	EI				0.00			+0.66	I	4.9	2	
14	An.	WI				−0.05			−0.23	I	4.9	2	
17	An.	WI				−0.11			−0.25	I	5.4	2	
1916													
Mar. 23	Hd.–Wy.	WI				----			+0.85	0	6.0	2	
24	Hd.–Wy.	WI				----			−0.22	0	---	2½	R.
31	Hd.–Wy.	EI				----			+0.50	0	5.5	3	
Apr. 10	Hd.–Wy.	EI				----			+0.18	I	---	2	R.
15	Hd.–Fn.	EI				----			+0.92	0	6.0	2	

			s	″			
1916							
Apr. 18	Hd.–Fn.	EI	----	−0.25	0	--- 3	R.
19	Hd.–Fn.	WI	----	+0.78	0	--- 3	R.
20	Hd.–Wy.	WI	----	+0.87	0	6.0 3	
Mean------	1913.80		−0.038	+0.33			
	1914.62						
Corr----------			−0.081	−0.33			

3 Draconis s. p.

	h	m	s	°	′	″
	11	37	27.744	+67	14	35.13

1912							
Sept. 27	Hd.	EII	−0.12	−0.32	0	--- 5	
28	R.	EII	+0.11	−0.86	0	--- 4	
29	R.	EII	−0.09	−0.95	0	--- 3	
Oct. 15	R.	WII	0.00	+0.78	0	6.0 3½	
Nov. 9	Fn.	WII	−0.08	+0.16	0	--- 3½	
1914							
Sept. 5	Wy.	WI	+0.01	−0.30	0	6.0 3	
19	Wy.	EI	−0.15	−0.17	0	7.0 3½	
20	An.	EI	----	−2.26	0	6.0 4	
28	Hd.	WI	−0.07	−0.16	0	6.5 3	
Mean------	1913.50		−0.049	−0.45			
	1913.64						
Corr----------			−0.081	+0.68			

ζ Crateris

	h	m	s	°	′	″
	11	40	11.973	−17	51	1.35

1912							
Mar. 17	R.	EII	+0.042	+0.10	0	5.5 4	
25	Fn.	WII	+0.024	0.00	0	5.0 3	
26	Hd.	WII	+0.026	+0.53	0	--- 3	
Apr. 19	Hd.	EII	+0.019	−0.55	0	6.0 3	
1915							
Apr. 19	Fn.	WI	+0.030	0.00	0	--- 3	
21	An.	WI	+0.122	−0.81	0	--- 3½	
May 6	Fn.	EI	+0.073	−0.33	0	--- 3	
10	Hd.	EI	+0.041	+0.62	I	4.9 2	
Mean------	1913.78		+0.047	−0.05			
Corr----------			−0.081	−0.09			

Weisse$_2$ XI 750

			h	m	s	°	′	″			
1913											
Mar. 20	R.	WII	11	40	52.319	+36	23	35.86	0	7.0 2	
21	Fn.	WII			52.315			35.81	0	7.0 3	
24	Fn.	EII			52.313			36.74	0	--- 3½	
28	Fn.	EII			52.325			37.30	0	7.0 2	
1914											
Jan. 9	R.	EI			52.248			36.62	0	7.5 2	
17	Wy.	WI			52.379			36.55	0	--- --	
Feb. 2	Hd.	WI			52.315			36.57	0	7.5 2	
9	Hd.	EI			52.300			36.96	0	7.0 2½	
Mar. 12	Hd.	WI			52.317			36.64	0	7.5 2	
Mean------	1913.71		11	40	52.315	+36	23	36.56			
Corr----------					−0.081			−0.26			

χ Ursæ Majoris

	h	m	s	°	′	″
	11	41	18.137	+48	16	42.55

1913							
Feb. 15	R.	WII	−0.081	−0.31	I	2.9 2	
19	Fn.	EII	+0.019	+0.55	I	--- 2	
Mar. 5	Fn.	EII	−0.019	−0.02	0	--- 2	
17	Fn.	WII	−0.044	+0.20	I	3.9 2½	
1914							
Mar. 24	Wy.	EI	−0.005	+0.41	I	3.4 2	
26	Fn.	EI	−0.025	+0.32	I	3.9 2½	
Apr. 3	Wy.	WI	+0.060	−0.35	I	3.4 2½	
4	Hd.	WI	−0.021	+0.47	0	--- 2	
1916							
Mar. 23	Hd.–Wy.	WI	-----	+0.80	I	--- 2	R.
24	Hd.–Wy.	WI	-----	+1.09	I	3.9 2½	
31	Hd.–Wy.	EI	-----	−0.01	I	--- 2	R.
Apr. 10	Hd.–Wy.	EI	-----	+0.13	I	2.9 2	
15	Hd.–Fn.	EI	-----	−0.68	I	--- 2	R.
18	Hd.–Fn.	EI	-----	+0.63	I	3.4 3	
19	Hd.–Fn.	WI	-----	+0.50	I	--- 3	
20	Hd.–Wy.	WI	-----	+0.16	I	--- 3	R.
Mean------	1913.70		−0.014	+0.30			
	1914.56						
Corr----------			−0.081	−0.29			

Groombridge 1825

			h	m	s	°	′	″			
1912											
Apr. 9	Hd.	WII	11	42	6.955	+56	7	43.78	0	5.5 3	
10	R.	WII			6.941			43.78	0	5.5 2	
11	Fn.	EII			6.848			43.45	0	5.5 1½	
16	Hd.	EII			6.902			43.89	0	--- 2	
1915											
Dec. 23	Hd.	WI			6.932			44.83	0	6.0 3½	
1916											
Jan. 3	Wy.	EI			6.944			43.69	0	5.5 3	
7	Wy.	EI			-----			43.68	0	6.0 2½	
8	Fn.	EI			6.930			43.81	0	6.0 3	
Feb. 9	Hd.	WI			6.960			44.18	0	6.0 3	
Mean------	1914.16		11	42	6.926	+56	7	43.90			
	1914.36										
Corr----------					−0.081			−0.30			

Groombridge 1826

			h	m	s	°	′	″			
1913											
Mar. 31	Fn.	EII	11	42	16.83	+61	54	10.49	0	6.8 2½	
Apr. 1	Hd.	EII			16.79			10.26	0	6.5 2½	
6	R.	WII			16.79			10.26	0	6.5 2	
7	Fn.	WII			16.75			10.16	0	6.5 2	
1914											
Mar. 22	Wy.	EI			16.87			10.41	0	7.0 3	
23	Fn.	EI			16.84			10.22	0	--- 2	
Apr. 5	Hd.	WI			16.88			10.58	0	7.0 2	
6	Fn.	WI			16.84			9.45	0	6.0 2	
Mean------	1913.75		11	42	16.824	+61	54	10.23			
Corr----------					−0.081			−0.32			

Bradley 1602

			h	m	s	°	′	″			
1912											
Mar. 13	Fn.	EII	11	43	17.519	+8	44	45.06	0	5.8 2½	
16	Fn.	EII			17.531			44.77	0	5.8 2	
Apr. 3	R.	WII			17.513			45.30	0	6.0 2	
8	Fn.	WII			17.494			44.96	0	5.8 1½	
1916											
Jan. 20	Wy.	EI			17.524			44.79	0	--- 3	
Feb. 3	Fn.	EI			17.517			44.88	0	6.0 2½	
29	Hd.	WI			17.484			44.41	0	6.0 2	
Mar. 3	Hd.	WI			17.458			44.80	0	6.0 3	
Mean------	1914.18		11	43	17.505	+8	44	44.87			
Corr----------					−0.081			−0.21			

Bradley 1603

			h	m	s	°	′	″			
1913											
Jan. 21	R.	EII	11	43	20.638	+20	43	9.96	I	4.9 2½	
27	Fn.	EII			20.715			9.03	0	--- 2½	
Feb. 7	Fn.	WII			20.649			8.83	0	--- 3½	
8	R.	WII			20.643			8.42	I	4.9 2½	
1914											
Feb. 26	Hd.	EI			20.639			8.21	I	4.4 2	
27	Fn.	EI			20.669			8.74	0	5.0 1½	
Mar. 3	Fn.	WI			20.682			8.59	0	5.0 3	
12	Hd.	WI			20.638			8.89	I	4.4 2	
Mean------	1913.63		11	43	20.659	+20	43	8.83			
Corr----------					−0.081			−0.23			

Weisse$_2$ XI 799

				h	m	s	°	′	″				
1912													
May	1	R.	EII	11	43	45.273	+28	55	2.70	0	7.0	1	½
	3	Hd.	EII			45.235			2.68	0	7.0	2	
	4	R.	WII			45.322			3.08	0	7.5	2	
	9	Fn.	WII			45.260			2.26	0	7.1	2	½
1916													
Jan.	7	Wy.	EI			45.246			2.30	0	7.0	3	
	23	Fn.	EI			45.253			2.35	0	7.0	2	
Feb.	15	Hd.	WI			45.195			2.82	0	---	2	
	22	Fn.	WI			------			2.93	0	---	2	½
Mar.	11	Wy.	WI			45.225			3.23	0	7.0	2	
Mean		1914.22		11	43	45.251	+28	55	2.71				
		1914.43											
Corr						−0.081			−0.25				

β Leonis

				h	m	s	°	′	″				
				11	44	28.054	+15	4	30.11				
						s	″		″				
1911													
Oct.	*12*	*Fn.*	*WII*			*+0.064*	*−0.48*		*−0.42*	*0*	---	--	
Nov.	*2*	*R.*	*EII*			*+0.045*	----		----	*0*	---	--	
	12	*Hd.*	*EII*			*+0.053*	----		----	*0*	---	*4*	
	15	*Hd.*	*EII*			*+0.020*	*−0.38*		*−0.37*	*0*	---	*3*	
	16	*Hd.*	*EII*			-----	*−0.04*		*0.00*	*0*	---	--	
	21	*R.*	*EII*			*−0.028*	----		----	*0*	---	--	
	30	*Hd.*	*WII*			*+0.025*	----		----	*0*	---	--	
Dec.	*4*	*R.*	*WII*			*+0.071*	----		----	*II*	---	*2*	
1912													
Apr.	2	Hd.	WII			+0.028			----	I	---	5	
	6	R.	EII			0.000			----	II	2.1	4	
	8	Fn.	WII			+0.018			+0.26	I	3.1	2	
	19	Hd.	EII			+0.017			----	I	2.9	3	
	25	Fn.	EII			+0.037			----	0	---	2	
	27	R.	EII			+0.014			----	II	2.6	2	½
May	16	Fn.	WII			+0.020			−0.56	I	2.3	2	½
	20	Fn.	EII			+0.055			−0.44	I	2.8	3	
	21	Hd.	WII			+0.054			−0.87	I	---	2	
	24	Hd.	EII			−0.004			−0.51	II	1.6	3	
Oct.	*16*	*R.*	*WII*			-----	*−0.77*		*−0.73*	*0*	---	--	
	28	*R.*	*EII*			*+0.032*	*−0.53*		*−0.64*	*0*	---	--	
Nov.	*7*	*Hd.*	*WII*			-----	*−0.64*		*−0.62*	*0*	---	*3*	
	10	*R.*	*EII*			*−0.018*	*−0.31*		*−0.27*	*0*	---	*3*	
	11	*Fn.*	*EII*			*+0.057*	*+0.13*		*+0.06*	*0*	---	*3*	
1913													
Jan.	18	R.	EII			−0.005			----	II	2.1	1	½
	30	R.	WII			+0.037			----	I	---	3	
Feb.	25	R.	EII			+0.034			----	II	2.6	1	½
Mar.	7	Fn.	EII			+0.029			−0.26	I	---	1	½
	30	R.	EII			+0.037			----	II	2.6	3	
Apr.	1	Hd.	EII			+0.030			−0.24	II	2.1	2	½
	2	Fn.	EII			+0.015			----	I	---	2	
	3	R.	EII			−0.022			----	0	---	2	½
	17	R.	WII			+0.037			−0.91	II	2.1	2	
	18	Fn.	WII			+0.019			+0.14	I	---	2	½
	19	R.	WII			+0.035			----	II	2.1	1	½
	21	Hd.	EII			−0.010			----	II	2.1	2	
	22	Fn.	EII			+0.055			----	I	2.7	1	½
	24	Hd.	EII			+0.016			----	II	2.1	1	
	25	Fn.	EII			+0.026			----	I	1.9	1	½
Nov.	*4*	*Hd.*	*EI*			*+0.094*	*+0.27*		*+0.27*	*0*	---	*3*	
	5	*Fn.*	*EI*			*+0.013*	*+0.01*		*+0.10*	*0*	---	*3*	
	6	*R.*	*EI*			*+0.042*	*−0.58*		*−0.54*	*0*	---	--	
	11	*Hd.*	*WI*			*−0.010*	*+0.09*		*+0.11*	*0*	---	*2*	
	16	*Fn.*	*WI*			*+0.046*	*+0.24*		*+0.24*	*0*	---	*3*	½
	17	*R.*	*WI*			-----	*+0.07*		*+0.12*	*0*	---	--	
Dec.	29	Hd.	WI			−0.014			----	II	2.6	3	
1914													
Jan.	5	Hd.	EI			+0.026			----	II	2.6	2	
	8	Hd.	EI			+0.048			----	II	---	2	½
	9	R.	EI			−0.012			----	I	---	3	
	15	Hd.	EI			+0.030			−0.16	0	---	3	
	18	Wy.	WI			−0.010			----	I	---	3	
	27	R.	WI			+0.038			----	II	2.6	3	
	28	Fn.	WI			+0.026			----	I	2.4	2	½
	31	Fn.	WI			−0.007			----	I	2.4	3	

					″	″				
1914										
Feb.	3	Fn.	EI	+0.043		----	I	2.9	3	
	17	Fn.	WI	+0.027		----	I	2.4	3	½
Mar.	7	Wy.	EI	−0.045		----	I	2.4	2	½
	20	Wy.	EI	+0.010		----	I	2.9	3	
Apr.	8	Hd.	WI	+0.032		----	0	---	4	
	10	Wy.	WI	+0.010		----	I	2.1	2	
	21	Hd.	EI	+0.028		----	I	2.9	2	
	23	Wy.	EI	+0.042		----	I	2.9	2	
	26	Hd.	EI	+0.041		----	II	2.6	2	
	27	Wy.	EI	−0.022		----	I	2.9	3	½
	28	Hd.	EI	+0.043		−0.08	II	2.6	2	
	30	Wy.	WI	+0.017		----	I	2.9	3	
May	2	Fn.	WI	+0.020		----	I	2.4	2	½
	6	Fn.	WI	+0.024		----	I	2.9	2	
	9	Fn.	WI	+0.033		----	I	2.4	2	
	11	Hd.	WI	+0.032		−0.60	I	2.4	3	
	14	Hd.	WI	-----		−0.01	I	2.9	3	
	15	Wy	WI	+0.035		----	I	2.9	2	
	16	Fn.	WI	−0.012		+0.69	I	2.4	2	
Sept.	*29*	*An.*	*WI*	*+0.029*	*−1.55*	*−1.51*	*0*	---	*3*	½
Oct.	*18*	*Hd.*	*EI*	*+0.059*	----	----	*0*	---	*2*	½
	20	*An.*	*EI*	*+0.023*	----	----	*0*	---	*4*	
	22	*Fn.*	*EI*	-----	*−0.30*	*−0.23*	*0*	---	*3*	½
	30	*An.*	*EI*	*+0.007*	*−0.21*	*−0.21*	*0*	---	*3*	½
Nov.	*1*	*Fn.*	*WI*	*+0.033*	*−0.16*	*−0.25*	*0*	---	*3*	½
	2	*An.*	*WI*	*+0.023*	*−0.27*	*−0.22*	*0*	---	*3*	½
	3	*Hd.*	*WI*	*+0.002*	*−0.84*	*−0.81*	*0*	---	*3*	½
	4	*Fn.*	*WI*	*−0.021*	*−1.18*	*−1.18*	*0*	---	*3*	½
	6	*Hd.*	*WI*	*+0.010*	----	----	*0*	---	*2*	
	9	*Fn.*	*WI*	-----	*−0.79*	*−0.73*	*0*	---	*3*	
	10	*An.*	*WI*	*−0.015*	----	----	*0*	---	*3*	½
	12	*Fn.*	*WI*	*+0.023*	*−1.02*	*−1.04*	*0*	---	*3*	½
	13	*An.*	*WI*	-----	*+0.38*	*+0.41*	*0*	---	*3*	
	16	*Wy.*	*EI*	*+0.097*	----	----	*0*	---	*3*	
	17	*Fn.*	*EI*	*+0.029*	*−0.49*	*−0.54*	*0*	---	*2*	½
	19	*Wy.*	*EI*	*−0.006*	----	----	*0*	---	*3*	
	25	*Wy.*	*EI*	*+0.038*	----	----	*0*	---	*4*	
Dec.	17	An.	WI	-----		−0.30	II	3.1	2	
	22	Fn.	WI	+0.034		----	I	2.4	3	½
1915										
Jan.	9	Wy.	EI	+0.046		----	I	2.9	2	½
Mar.	30	Wy.	EI	+0.053		----	I	---	3	
	31	An.	EI	+0.052		----	II	2.1	3	
Apr.	6	Wy.	EI	+0.022		----	II	1.6	2	½
	7	An.	EI	+0.022		----	I	---	2	
	8	Hd.	EI	+0.032		----	II	2.6	2	
	10	An.	EI	+0.045		−0.33	I	2.4	3	
	13	Fn.	WI	+0.019		----	I	2.4	2	½
	14	An.	WI	+0.013		----	II	---	2	
	19	Fn.	WI	−0.001		----	I	---	2	½
	21	An.	WI	+0.073		----	II	---	2	½
	24	An.	WI	+0.034		−0.37	II	3.6	2	
	30	Wy.	EI	+0.010		----	0	---	3	½
May	2	Hd.	EI	−0.008		----	0	---	3	
	6	Fn.	EI	+0.024		−0.11	I	---	2	
	10	Hd.	EI	+0.018		----	II	2.1	2	
	11	Fn.	EI	−0.006		----	I	---	2	½
	13	Hd.	WI	+0.023		−0.06	I	---	3	
	15	Wy.	WI	+0.042		+0.18	II	2.6	2	½
	17	Hd.	EI	+0.049		----	I	2.9	3	
	19	Fn.	EI	+0.013		+0.94	I	3.4	2	
	21	Wy.	WI	+0.001		----	I	---	3	
	23	Wy.	WI	+0.029		−0.05	I	3.4	2	
	25	Fn.	WI	+0.016		----	0	---	2	½
	27	Wy.	WI	+0.039		+0.57	I	3.4	2	
Oct.	*7*	*Hd.*	*WI*	*+0.054*	*−0.85*	*−0.78*	*0*	---	*3*	
	8	*Fn.*	*WI*	*+0.033*	*−1.22*	*−1.09*	*0*	---	*3*	½
	10	*Fn.*	*WI*	*+0.108*	*−0.61*	*−0.54*	*0*	---	*3*	½
	11	*Wy.*	*WI*	*+0.056*	*−0.65*	*−0.55*	*0*	---	*4*	
	24	*Hd.*	*WI*	*+0.072*	*−1.07*	*−1.01*	*0*	---	*3*	
	26	*Wy.*	*WI*	*−0.015*	*−0.39*	*−0.23*	*0*	---	*3*	½
	27	*Hd.*	*EI*	*+0.099*	*−0.60*	*−0.52*	*0*	---	*3*	
	29	*Wy.*	*EI*	*+0.073*	*−0.30*	*−0.28*	*0*	---	*3*	½
Nov.	*2*	*Hd.*	*EI*	*+0.045*	----	----	*0*	---	*2*	½
	4	*Wy.*	*EI*	*+0.070*	*+0.34*	*+0.35*	*0*	---	*3*	
	5	*Hd.*	*EI*	*+0.003*	----	----	*0*	---	*2*	½
	9	*Fn.*	*WI*	*+0.020*	*−0.91*	*−0.88*	*0*	---	*3*	
	15	*Fn.*	*WI*	*−0.033*	----	----	*0*	---	*3*	

				s	″	″			
1915									
Nov. 16	*Wy.*	*WI*		*+0.025*	----	----	*I*	---	*3½*
21	*Fn.*	*EI*		*+0.028*	*+0.42*	*+0.47*	*0*	---	*3*
1916									
Feb. 7	Fn.	EI		+0.001		----	I	2.4	2½
June 1	*Fn.*	*EI*		*−0.025*	*+0.01*	*+0.01*	*I*	---	*1½*
2	*Hd.*	*EI*		*−0.030*	*−0.76*	*−0.74*	*I*	---	*2*
5	*Hd.*	*EI*		*+0.021*	*−0.67*	*−0.66*	*0*	---	*2½*
12	*Wy.*	*EI*		*−0.017*	*−0.39*	*−0.43*	*0*	---	*3*
13	*Fn.*	*EI*		*−0.044*	*−0.37*	*−0.43*	*0*	---	*2½*
22	*Fn.*	*WI*		*+0.010*	*−0.64*	*−0.64*	*0*	---	*2½*
27	*Wy.*	*WI*		*+0.080*	*−0.77*	*−0.81*	*I*	---	*3*
July 7	*Fn.*	*EI*		*−0.038*	*−0.89*	*−0.85*	*0*	---	*3*
Oct. 8	*Hd.*	*WI*		*+0.101*	*−1.49*	*−1.37*	*0*	---	*3½*
22	*Wy.*	*WI*		*+0.021*	*−0.82*	*−0.78*	*0*	---	*3½*
23	*Hd.*	*WI*		*−0.021*	*−0.77*	*−0.69*	*0*	---	*3½*
25	*Wy.*	*EI*		*+0.022*	*−1.19*	*−1.11*	*0*	---	*3½*
26	*Hd.*	*EI*		*+0.044*	*−0.56*	*−0.50*	*0*	---	*3*
Nov. 1	*Hd.*	*EI*		*+0.018*	*−0.51*	*−0.34*	*0*	---	*3½*
2	*Fn.*	*EI*		*−0.014*	*−0.05*	*−0.02*	*0*	---	*3*
8	*Wy.*	*EI*		*+0.013*	*−0.96*	*−0.93*	*0*	---	*3½*
9	*Fn.*	*EI*		*+0.047*	*−0.56*	*−0.53*	*0*	---	*3*
15	*Wy.*	*WI*		*+0.025*	*−0.92*	*−0.89*	*0*	---	*3½*
19	*Fn.*	*WI*		*+0.042*	*−0.95*	*−1.03*	*0*	---	*3*
23	*Fn.*	*WI*		*+0.027*	----	----	*0*	---	*3*
26	*Wy.*	*WI*		*+0.008*	*−0.60*	*−0.57*	*I*	---	*3½*
30	*Fn.*	*EI*		*−0.001*	*0.00*	*+0.03*	*0*	---	*2½*
Dec. 3	*Fn.*	*EI*		*+0.046*	*−0.29*	*−0.29*	*0*	---	*2½*
7	Hd.	EI		+0.025		−0.39	II	2.6	2
1917									
Apr. 9	Hd.	WI		−0.004		+0.17	II	2.6	2
10	Fn.	WI		+0.054		−0.58	I	2.4	2½
16	Fn.	WI		+0.021		−0.40	I	2.4	2½
19	Fn.	EI		+0.003		−0.08	I	2.9	3
May 1	Fn.	EI		−0.006		−1.14	I	2.4	3
10	Fn.	WI		+0.010		−0.43	I	2.9	2½
11	Wy.	WI		+0.038		+0.29	I	2.9	2½
14	Wy.	WI		+0.027		+0.06	II	2.1	2
15	Hd.	WI		+0.024		−0.35	I	---	3
June 4	*Wy.*	*WI*		*−0.003*	*+0.09*	*+0.08*	*I*	---	*3½*
22	*Fn.*	*WII*		*−0.007*	*−1.00*	*−0.97*	*0*	---	*3½*
July 30	*Wy.*	*EII*		*+0.091*	*−1.05*	*−0.94*	*0*	---	*3½*
31	*Fn.*	*EII*		*+0.049*	*−0.97*	*−0.86*	*0*	---	*3½*
Aug. 3	*Fn.*	*WII*		*+0.098*	*−0.99*	*−0.90*	*0*	---	*3½*
10	*Wy.*	*WII*		*+0.020*	*−1.17*	*−1.11*	*0*	---	*3½*
17	*Wy.*	*WII*		*+0.035*	*−0.39*	*−0.26*	*0*	---	*3½*
Oct. 3	*Hd.*	*WII*		*+0.001*	*−0.28*	*−0.12*	*0*	---	*3½*
4	*Fn.*	*WII*		*+0.091*	*[−2.20]*[1]	*[−2.09]*[1]	*0*	---	*3½*
21	*Hd.*	*EII*		*+0.029*	*−0.86*	*−0.81*	*0*	---	*3½*
31	*Hd.*	*EII*		*+0.014*	*−0.09*	*−0.02*	*0*	---	*3½*
Nov. 1	*Fn.*	*EII*		*+0.025*	*−0.27*	*−0.25*	*0*	---	*3½*
18	*Hd.*	*WII*		*+0.013*	*−0.06*	*−0.02*	*0*	---	*2*
1918									
Mar. 29	Wy.	WII		+0.025		+0.41	II	2.6	3
Apr. 15	Fn.	EII		+0.041		+0.11	I	2.4	2
May 2	Fn.	EII		+0.021		−0.80	I	2.4	2½
6	Fn.	EII		+0.014		----	I	2.9	2
8	Fn.	EII		-----		−0.02	I	2.4	2
15	Fn.	WII		+0.005		−0.24	0	---	2
Mean------	1914.72			+0.022		−0.17			
	1915.49								
Corr----------				−0.081		−0.22			

β Virginis

	h	m	s	°	′	″			
	11	46	0.639	+2	16	18.00			
1911				s		″			
Nov. 21	*R.*	*EII*		*+0.005*	----	----	*0*	---	--
26	*Hd.*	*WII*		-----	*−0.39*	*−0.49*	*0*	---	*2*
30	*Hd.*	*WII*		*+0.029*	*+0.19*	*+0.17*	*0*	---	*2*
Dec. 4	*R.*	*WII*		*+0.045*	----	----	*0*	---	--
5	*R.*	*WII*		-----	*+0.70*	*+0.68*	*0*	---	--
1912									
Mar. 18	Fn.	EII		+0.070		−0.26	I	3.1	2
Apr. 2	Hd.	WII		+0.026		----	I	---	5
6	R.	EII		+0.029		----	I	3.4	4
25	Fn.	EII		+0.049		----	0	---	2½
1912									
Apr. 27	R.	EII		+0.054		----	I	3.1	2
May 20	Fn.	EII		+0.034		−0.15	I	3.3	3
22	R.	WII		-----		−0.24	I	---	4
1913									
Jan. 18	R.	EII		+0.033		+0.43	I	3.1	2
19	R.	EII		+0.047		----	0	---	2
25	R.	EII		+0.053		−0.23	I	3.9	3
30	R.	WII		+0.017		----	0	---	3½
Mar. 5	Fn.	EII		+0.007		−0.03	0	---	3
30	R.	EII		+0.038		----	0	---	--
Apr. 2	Fn.	EII		+0.024		----	0	---	2
18	Fn.	WII		+0.107		−0.43	I	---	2½
19	R.	WII		+0.036		−0.83	I	3.4	2
24	Hd.	EII		+0.026		−0.16	I	3.4	1
25	Fn.	EII		+0.016		−0.03	I	3.4	1½
Dec. 29	Hd.	WI		0.000		----	I	3.4	3
1914									
Jan. 5	Hd.	EI		+0.057		−0.09	I	2.9	2
8	Hd.	EI		+0.035		+0.19	0	---	2½
9	R.	EI		+0.045		----	0	---	3½
18	Wy.	WI		+0.064		−0.67	I	3.9	3
27	R.	WI		+0.019		−0.08	I	3.9	2½
28	Fn.	WI		+0.029		+0.01	I	3.9	2½
29	Wy.	WI		+0.092		−0.21	0	---	4
Feb. 9	Hd.	EI		+0.017		----	I	2.9	3
Mar. 7	Wy.	EI		+0.050		−0.47	I	3.4	2½
20	Wy.	EI		−0.010		----	I	3.4	3
Apr. 8	Hd.	WI		+0.016		----	I	---	3½
May 15	Wy.	WI		+0.054		−0.76	I	2.9	2
Oct. 30	*An.*	*EI*		*+0.004*	*−0.54*	*−0.53*	*0*	---	*3½*
Nov. 2	*An.*	*WI*		-----	*+0.56*	*+0.65*	*0*	---	*3½*
13	*An.*	*WI*		-----	*−0.74*	*−0.70*	*0*	---	*3*
16	*Wy.*	*EI*		*+0.042*	*−1.06*	*−1.01*	*0*	---	*3*
19	*Wy.*	*EI*		*+0.011*	*−0.25*	*−0.23*	*0*	---	*3*
1915									
Jan. 9	Wy.	EI		+0.061		----	I	3.9	2½
Mar. 31	An.	EI		+0.017		----	I	3.9	3
Apr. 6	Wy.	EI		+0.025		−0.30	I	3.4	3
7	An.	EI		+0.015		----	I	---	2
8	Hd.	EI		+0.050		−0.24	I	3.4	2
13	Fn.	WI		+0.073		----	I	4.4	2½
14	An.	WI		+0.058		----	I	---	2½
19	Fn.	WI		+0.027		----	I	---	2½
21	An.	WI		+0.039		+0.23	I	---	2½
24	An.	WI		+0.040		−0.77	I	4.9	2
30	Wy.	EI		+0.009		----	I	3.4	3
May 10	Hd.	EI		+0.022		−0.02	I	3.4	2
11	Fn.	EI		+0.023		+0.57	0	---	2½
14	Fn.	WI		+0.023		----	0	---	2
17	Hd.	EI		+0.054		−0.58	I	3.9	3
21	Wy.	WI		+0.006		−0.17	0	---	--
23	Wy.	WI		−0.002		0.00	I	3.9	3
25	Fn.	WI		+0.047		+0.67	0	---	2½
27	Wy.	WI		+0.025		+0.12	I	3.9	2
Nov. 2	*Hd.*	*EI*		*+0.090*	*−0.61*	*−0.54*	*0*	---	*2½*
4	*Wy.*	*EI*		*+0.067*	*+0.02*	*+0.03*	*0*	---	*3*
5	*Hd.*	*EI*		*−0.024*	*−0.48*	*−0.41*	*0*	---	*2½*
15	*Fn.*	*WI*		*+0.019*	*−0.53*	*−0.46*	*0*	---	*3*
16	*Wy.*	*WI*		*−0.014*	*−1.05*	*−1.04*	*0*	---	*3½*
Mean------	1914.15			+0.036		−0.16			
	1914.18								
Corr----------				−0.081		−0.18			

Lacaille 4905

	h	m	s	°	′	″			
1913									
Apr. 8	Hd.	WII	11	46	4.303	−26	46	37.57	0	---	3½
16	Hd.	WII			4.217			39.60	0	---	4
21	Hd.	EII			4.194			40.61	0	6.5	2½
22	Fn.	EII			4.231			39.53	0	---	3
1914									
Apr. 9	Fn.	WI			4.236			37.44	0	7.0	2½
13	Fn.	EI			4.284			39.14	0	6.5	3
17	Wy.	EI			4.321			39.59	0	---	3
30	Wy.	WI			4.234			40.25	0	---	3½
Mean------	1913.79		11	46	4.252	−26	46	39.22			
Corr----------					−0.081			−0.01			

[1] Very faint; one bisection only.

Piazzi XI 167

				h	m	s	°	′	″			
1912												
Mar. 17	R.	EII		11	46	26.154	−4	49	57.74	0	6.5	3½
25	Fn.	WII				26.163			58.42	0	5.7	2½
Apr. 9	Hd.	WII				26.170			58.69	0	6.0	3
19	Hd.	EII				26.159			57.93	0	6.2	3
1915												
Dec. 23	Hd.	WI				26.213			58.46	0	6.0	3½
1916												
Jan. 3	Wy.	EI				26.158			58.47	0	6.0	3
8	Fn.	EI				26.171			58.90	0	6.0	3
Feb. 9	Hd.	WI				26.201			58.62	0	6.0	3
Mean		1914.14		11	46	26.174	−4	49	58.40			
Corr						−0.081			−0.16			

B. D.−11° 3190

				h	m	s	°	′	″			
1913												
Feb. 13	R.	WII		11	46	48.016	−11	41	17.77	0	...	4
14	Fn.	WII				47.928			18.62	0	6.3	3½
19	Fn.	EII				47.916			18.17	0	6.5	3
25	R.	EII				47.957			18.16	0	6.0	2½
1914												
Apr. 5	Hd.	WI				47.933			17.34	0	6.5	2½
6	Fn.	WI				47.927			18.90	0	6.0	2½
21	Hd.	EI				47.909			17.81	0	...	2
23	Wy.	EI				47.936			18.81	0	7.5	3
Mean		1913.71		11	46	47.940	−11	41	18.20			
Corr						−0.081			−0.13			

B. D.−20° 3522

				h	m	s	°	′	″			
1912												
May 3	Hd.	EII		11	46	58.609	−21	8	7.56	0	8.5	2
16	Fn.	WII				58.662			6.97	0	8.0	4
18	Hd.	EII				58.649			7.87	0	8.0	3
21	Hd.	WII				58.609			7.19	0	8.0	3
1916												
Feb. 3	Fn.	EI				58.666			8.15	0	7.5	3
7	Fn.	EI				58.544			6.41	0	7.5	3
29	Hd.	WI				58.686			8.09	0	7.5	3
Mar. 3	Hd.	WI				58.684			7.77	0	7.5	3
Mean		1914.25		11	46	58.639	−21	8	7.50			
Corr						−0.081			−0.07			

Lacaille 4913

				h	m	s	°	′	″			
1913												
Mar. 17	Fn.	WII		11	47	8.423	−30	19	39.46	0	7.0	4
20	R.	WII				8.377			37.40	0	7.0	4
21	Fn.	WII				8.427			38.89	0	...	4½
28	Fn.	EII				8.392			37.01	0	6.7	3½
30	R.	EII				8.336			38.13	0	7.0	2
1914												
Apr. 26	Hd.	EI				8.419			37.94	0	6.5	3½
27	Wy.	EI				8.399			36.90	0	7.0	3
May 2	Fn.	WI				8.330			38.44	0	7.0	3½
9	Fn.	WI				8.372			37.32	0	7.0	3½
Mean		1913.72		11	47	8.386	−30	19	37.94			
Corr						−0.081			+0.04			

Oeltzen 12130

				h	m	s	°	′	″			
1913												
Mar. 29	Hd.	EII		11	47	31.759	+50	25	53.83	0	...	2½
31	Fn.	EII				31.795			53.81	0	6.5	2½
Apr. 6	R.	WII				31.731			53.91	0	...	2
7	Fn.	WII				31.692			53.19	0	6.4	2
1914												
Apr. 10	Wy.	WI				31.766			54.42	0	6.5	2½
13	Fn.	EI				31.795			54.56	0	6.5	2
17	Wy.	EI				31.744			54.41	0	6.0	2½
May 6	Fn.	WI				31.753			55.30	0	...	2
Mean		1913.78		11	47	31.754	+50	25	54.18			
Corr						−0.081			−0.29			

Groombridge 1830

				h	m	s	°	′	″			
				11	47	49.365	+38	21	28.37			
1912												
Apr. 11	Fn.	EII				−0.002			−0.97	0	...	2
16	Hd.	EII				−0.058			−0.56	0	...	2
23	Hd.	WII				+0.007			−0.88	0	6.5	2
25	Fn.	EII				+0.004			−0.76	0	7.1	2
May 10	Hd.	WII				+0.049			+0.54	0	7.0	1
1915												
Apr. 19	Fn.	WI				−0.096			....	0	...	2½
30	Wy.	EI				−0.013			....	0	...	3
1916												
Jan. 14	Hd.	EI				+0.056			−0.01	0	6.5	2
25	Hd.	EI				+0.053			−0.77	0	6.0	2
Feb. 15	Hd.	WI				−0.044			−0.87	0	...	2
22	Fn.	WI				.....			−0.28	0	...	2½
Mar. 11	Wy.	WI				−0.027			−0.34	0	7.0	2
1917												
Apr. 20	Wy.	EI				−0.052			....	0	6.5	3
1918												
May 6	Fn.	EII				+0.001			....	0	...	2
Mean		1914.79				−0.009			−0.49			
		1914.21										
Corr						−0.081			−0.27			

Piazzi XI 170

				h	m	s	°	′	″			
1913												
Jan. 14	R.	WII		11	48	8.037	+15	56	19.12	0	7.0	1
19	R.	EII				7.983			18.90	0	...	1½
21	R.	EII				8.014			19.37	0	7.5	2½
Feb. 8	R.	WII				8.048			17.79	0	7.5	2
1914												
Feb. 27	Fn.	EI				8.027			18.37	0	7.0	2
Mar. 3	Fn.	WI				8.011			18.16	0	7.0	3
12	Hd.	WI				8.042			18.25	0	7.5	2
26	Fn.	EI				8.056			18.48	0	7.0	2½
Mean		1913.63		11	48	8.027	+15	56	18.56			
Corr						−0.081			−0.22			

β Hydræ *mean*

				h	m	s	°	′	″			
1912												
May 1	R.	EII		11	48	21.636	−33	24	26.45	0	5.5	3½
2	Fn.	EII				21.634			26.46	0	...	3½
4	R.	WII				21.502			25.72	0	...	..
9	Fn.	WII				21.519			25.69	0	...	2½
1916												
Jan. 7	Wy.	EI				21.521			26.54	0	5.0	4
23	Fn.	EI				21.563			26.71	0	...	3
Mar. 4	Wy.	WI				21.662			24.90	0	6.0	4
10	Fn.	WI				21.604			25.80	0	5.0	3½
Mean		1914.22		11	48	21.580	−33	24	26.03			
Corr						−0.081			+0.10			

γ Ursæ Majoris

				h	m	s	°	′	″				
				11	49	6.217	+54	11	42.63				
						s			″				
1911													
Dec. 27	Hd.	EII				−0.026			−0.27	II	2.1	3	
1912													
Jan. 4	R.	EII				−0.031			+0.84	0	...	..	
7	Fn.	EII				−0.019			+0.21	..	...	..	
9	Fn.	EII				+0.054			....	I	...	..	
Mar. 13	Fn.	EII				−0.039			+0.37	I	2.2	2	
16	Fn.	EII				−0.021			+0.08	II	2.1	2	
Apr. 2	Hd.	WII				+0.054			+0.95	I	...	4	
3	R.	WII				−0.038			+0.04	II	2.6	1	
1915													
May 6	Fn.	EI				−0.036			+0.67	I	...	2	
8	Hd.	EI				+0.009			+0.98	I	...	3	
13	Hd.	WI				−0.032			+0.47	I	...	2½	
15	Wy.	WI				+0.005			+0.57	I	2.9	2	

				s	″	″				
1916										
Mar.	23	Hd.–Wy.	WI	-----		+0.67	II	2.6	2	
	24	Hd.–Wy.	WI	-----		−0.16	I	---	2½	R.
	31	Hd.–Wy.	EI	-----		+0.14	II	3.1	2	
Apr.	10	Hd.–Wy.	EI	-----		+0.13	I	---	2	R.
	15	Hd.–Fn.	EI	-----		+0.93	I	2.9	2	
	18	Hd.–Fn.	EI	-----		−0.57	I	---	3	R.
	19	Hd.–Fn.	WI	-----		+0.18	I	---	3	R.
	20	Hd.–Wy.	WI	-----		+0.87	I	3.4	3	
June	*1*	*Fn.*	*EI*	*−0.056*	*+0.99*	*+0.99*	*I*	---	*1½*	
	2	*Hd.*	*EI*	*−0.052*	*+0.01*	*0.00*	*I*	---	*2*	
	5	*Hd.*	*EI*	*−0.065*	*+0.04*	*+0.04*	*I*	---	*2*	
	8	*Hd.*	*EI*	*−0.095*	*+0.18*	*+0.17*	*0*	---	*3*	
	18	*Fn.*	*EI*	*−0.073*	*+0.06*	*+0.10*	*0*	---	*2½*	
	22	*Fn.*	*WI*	*+0.006*	*+0.60*	*+0.60*	*0*	---	*2½*	
	23	*Hd.*	*WI*	*−0.046*	*+1.09*	*+1.09*	*0*	---	*3*	
	27	*Wy.*	*WI*	*+0.049*	*+0.06*	*+0.05*	*0*	---	*3½*	
July	*6*	*Wy.*	*EI*	*−0.170*	*−0.22*	*−0.23*	*0*	---	*3½*	
Aug.	*21*	*Wy.*	*EI*	*−0.114*	*−0.04*	*−0.10*	*0*	---	*3½*	
	24	*Wy.*	*WI*	-----	*+0.23*	*+0.15*	*0*	---	*3½*	
Oct.	*8*	*Hd.*	*WI*	*+0.069*	*−0.01*	*−0.09*	*0*	---	*3½*	
	22	*Wy.*	*WI*	-----	*+0.48*	*+0.45*	*0*	---	*3½*	
	23	*Hd.*	*WI*	*−0.038*	*−0.13*	*−0.18*	*0*	---	*3½*	
	25	*Wy.*	*EI*	*+0.004*	*−0.43*	*−0.47*	*0*	---	*3½*	
	26	*Hd.*	*EI*	*−0.034*	*+0.45*	*+0.41*	*0*	---	*3½*	
Nov.	*1*	*Hd.*	*EI*	*0.000*	*+0.78*	*+0.67*	*0*	---	*3½*	
	2	*Fn.*	*EI*	*−0.006*	----	----	*0*	---	*3*	
	8	*Wy.*	*EI*	*−0.061*	*+0.01*	*−0.01*	*0*	---	*3½*	
	19	*Fn.*	*WI*	*+0.017*	*−0.17*	*−0.12*	*0*	---	*3*	
	30	*Fn.*	*EI*	*−0.007*	*+0.66*	*+0.64*	*0*	---	*2½*	
Dec.	7	Hd.	EI	−0.049		+0.48	I	2.9	2	
1917										
Apr.	9	Hd.	WI	−0.060		+1.21	II	2.6	2	
	10	Fn.	WI	+0.018		+1.96	I	2.9	2½	
	16	Fn.	WI	+0.003		[+2.73]	I	3.4	2½	
May	10	Fn.	WI	+0.017		+1.32	I	2.9	2½	
	11	Wy.	WI	−0.019		+0.50	I	3.4	2½	
	14	Wy.	WI	−0.058		+0.82	II	2.6	2½	
	15	Hd.	WI	+0.011		+1.06	I	---	3	
June	*4*	*Wy.*	*WI*	*+0.017*	*+0.92*	*+0.92*	*0*	---	*3*	
	22	*Fn.*	*WII*	*−0.141*	*+0.26*	*+0.24*	*0*	---	*3½*	
July	*30*	*Wy.*	*EII*	*−0.057*	*−0.30*	*−0.37*	*0*	---	*3½*	
Aug.	*6*	*Hd.*	*WII*	*−0.065*	*+0.60*	*+0.58*	*0*	---	*3½*	
	17	*Wy.*	*WII*	*+0.064*	*+0.67*	*+0.58*	*0*	---	*3½*	
Oct.	*3*	*Hd.*	*WII*	*+0.009*	*+0.09*	*−0.02*	*0*	---	*3½*	
	4	*Fn.*	*WII*	*−0.076*	*−0.27*	*−0.34*	*0*	---	*3½*	
	21	*Hd.*	*EII*	*−0.044*	*+0.89*	*+0.86*	*0*	---	*3½*	
	25	*Fn.*	*EII*	*−0.064*	*+0.12*	*+0.09*	*0*	---	*3½*	
	31	*Hd.*	*EII*	*−0.013*	*+0.31*	*+0.26*	*0*	---	*3½*	
Nov.	*1*	*Fn.*	*EII*	*+0.022*	*+1.34*	*+1.33*	*0*	---	*3½*	
1918										
Apr.	15	Fn.	EII	−0.024		+0.85	I	2.4	2	
Mean		1915.00		−0.013		+0.68				
		1915.24								
Corr				−0.081		−0.30				

γ Ursæ Majoris s. p.

	h	m	s	°	′	″
	11	49	-----	+54	11	42.63

				s	″				
1912									
Dec.	20	R.	EII	-----		+0.8	0	---	5
	28	R.	WII	-----		−2.9	0	---	--
1914									
Sept.	4	Fn.	WI	-----		+2.4	0	---	5
	28	Hd.	WI	-----		+2.5	0	---	5
	29	Wy.	WI	-----		−5.2	0	---	5
	30	An.	WI	-----		−2.6	0	---	5
Oct.	1	Hd.	WI	-----		−9.0	0	---	5
	2	Wy.	WI	-----		+0.7	0	---	4
	5	Wy.	WI	-----		−4.4	0	---	4½
	19	Hd.	EI	-----		−5.8	0	---	5
Nov.	9	Hd.	WI	-----		+7.0	0	---	5
	19	Hd.	EI	-----		+3.0	0	---	5
	23	Fn.	EI	-----		+4.4	0	---	--
Dec.	16	An.	WI	-----		+3.6	0	---	4
	17	Fn.	WI	-----		−2.5	0	---	3½
1915									
Aug.	31	Wy.	WI	-----		−3.0	0	---	4½
Sept.	15	Hd.	EI	-----		+0.9	0	---	4½
	16	Wy.	EI	-----		−6.0	0	---	5
	21	Wy.	EI	-----		−1.4	0	---	5
Oct.	30	Wy.	EI	-----		+3.7	0	---	5
Nov.	22	Fn.	EI	-----		+8.8	0	---	4½
	30	Fn.	EI	-----		+4.2	0	---	5
1916									
Nov.	27	Wy.	WI	-----		−0.8	0	---	5
Mean		1915.04		-----		−0.07			
Corr				-----		+2.40			

η Crateris

				h	m	s	°	′	″			
1913												
Mar.	30	R.	EII	11	51	25.691	−16	38	59.61	0	---	3½
	31	Fn.	EII			25.655			58.94	0	5.6	3
Apr.	5	Hd.	WII			25.675			59.25	0	---	3½
	6	R.	WII			25.721			57.69	0	---	--
1914												
Jan.	5	Hd.	EI			25.689			58.84	0	6.0	3
	8	Hd.	EI			25.688			59.31	0	---	3
	17	Wy.	WI			25.689			59.78	0	5.7	3½
	18	Wy.	WI			25.673			59.73	0	---	3½
	27	R.	WI			25.664			59.16	0	---	4½
	28	Fn.	WI			25.673			59.05	0	6.0	3½
Mean		1913.73		11	51	25.682	−16	38	59.14			
Corr						−0.081			−0.10			

Groombridge 1841

				h	m	s	°	′	″			
1913												
Jan.	21	R.	EII	11	52	36.917	+40	50	46.97	0	7.0	2
	25	R.	EII			36.899			46.55	0	7.0	2½
Feb.	8	R.	WII			36.919			45.73	0	7.0	2
	13	R.	WII			36.875			46.07	0	7.0	2
1914												
Jan.	29	Wy.	WI			37.018			45.73	0	6.5	3½
Feb.	3	Fn.	EI			36.867			45.70	0	6.5	2½
	17	Fn.	WI			36.891			46.73	0	7.0	3
	26	Hd.	EI			36.903			45.98	0	6.5	2
Mean		1913.60		11	52	36.911	+40	50	46.18			
Corr						−0.081			−0.27			

Weisse$_2$ XI 991

				h	m	s	°	′	″			
1912												
Mar.	17	R.	EII	11	53	29.914	+32	46	35.35	0	7.5	3
	18	Fn.	EII			29.933			34.76	0	6.6	2
	25	Fn.	WII			29.942			35.47	0	6.6	1½
	26	Hd.	WII			29.995			34.96	0	6.5	3
1915												
Apr.	6	Wy.	EI			29.925			35.35	0	---	2½
	7	An.	EI			29.966			34.78	0	6.0	2
	15	Hd.	WI			29.844			35.42	0	6.5	2
	17	An.	WI			29.892			34.05	0	7.0	2½
Mean		1913.75		11	53	29.926	+32	46	35.02			
Corr						−0.081			−0.26			

b Virginis

				h	m	s	°	′	′			
1913												
Jan.	14	R.	WII	11	55	20.373	+4	9	23.23	0	5.5	1
	18	R.	EII			20.333			23.44	0	5.5	1½
	19	R.	EII			20.345			-----	0	---	2½
	30	R.	WII			20.348			22.88	0	---	3
Feb.	19	Fn.	EII			20.354			23.18	0	---	2
1914												
Feb.	21	Wy.	WI			20.317			22.92	0	6.0	2
	27	Fn.	EI			20.369			23.00	0	6.0	2
Mar.	3	Fn.	WI			20.358			22.79	0	5.5	3
	26	Fn.	EI			20.348			23.50	0	5.5	2½
Mean		1913.56		11	55	20.349	+4	9	23.12			
		1913.63										
Corr						−0.081			−0.19			

Lalande 22573

				h	m	s	°	′	″			
1912												
Apr. 10	R.	WII		11	55	28.320	+19	55	15.96	0	7.5	3
11	Fn.	EII				28.289			16.31	0	6.7	2½
16	Hd.	EII				28.274			15.57	0	...	2
20	Fn.	WII				28.315			15.36	0	...	..
1915												
Apr. 19	Fn.	WI				28.231			15.92	0	...	2
21	An.	WI				28.246			16.14	0	...	2½
May 6	Fn.	EI				28.278			16.01	0	...	2
8	Hd.	EI				28.253			16.34	0	7.0	3
Mean	1913.80			11	55	28.276	+19	55	15.95			
Corr						−0.081			−0.23			

Pulkowa 1855, 1811

				h	m	s	°	′	″			
1913												
Jan. 27	Fn.	EII		11	56	7.347	−9	56	0.40	0	6.5	3½
Feb. 15	R.	WII				7.379			1.64	0	5.5	2½
25	R.	EII				7.381			0.88	0	5.5	2½
Mar. 20	R.	WII				7.346			0.72	0	6.0	3½
1914												
Mar. 12	Hd.	WI				7.376			1.65	0	6.5	3
13	Fn.	WI				7.333			2.17	0	6.5	2½
24	Wy.	EI				7.328			1.12	0	6.0	2
Apr. 13	Fn.	EI				7.374			1.37	0	6.0	3
Mean	1913.68			11	56	7.358	−9	56	1.24			
Corr						−0.081			−0.14			

π Virginis

				h	m	s	°	′	″				
				11	56	15.658	+7	6	58.11				
1912													
Mar. 13	Fn.	EII				+0.058			−0.04	0	5.0	2	
16	Fn.	EII				+0.055			+0.09	I	4.1	2½	
Apr. 2	Hd.	WII				+0.053			+1.08	0	...	5	
3	R.	WII				+0.036			+0.15	I	4.9	1	
1915													
Apr. 24	An.	WI				+0.114			+0.05	I	4.9	2½	
May 10	Hd.	EI				+0.064			+0.49	I	4.9	3	
11	Fn.	EI				+0.015			+0.38	0	...	2½	
14	Fn.	WI				+0.041			+0.65	0	...	2	
1916													
Apr. 15	Hd.–Fn.	EI				.....			+0.68	I	4.4	2	
18	Hd.–Fn.	EI				.....			−0.70	0	...	3	R.
19	Hd.–Fn.	WI				.....			+0.08	0	...	3	R.
20	Hd.–Wy.	WI				.....			−0.06	0	...	2½	
Mean	1913.79					+0.054			+0.35				
	1914.29												
Corr						−0.081			−0.20				

Weisse$_2$ XI 926

				h	m	s	°	′	″			
1913												
Mar. 11	R.	EII		11	56	37.245	+12	52	43.84	0	...	2½
17	Fn.	WII				37.224			44.11	0	7.5	3½
22	Hd.	WII				37.278			44.44	0	7.0	3
28	Fn.	EII				37.277			44.49	0	7.0	2
1914												
Jan. 5	Hd.	EI				37.241			44.19	0	7.0	2
9	R.	EI				37.243			43.73	0	...	2
27	R.	WI				37.297			45.68	0	7.5	3½
28	Fn.	WI				37.277			43.96	0	7.0	2½
Mean	1913.63			11	56	37.260	+12	52	44.30			
Corr						−0.081			−0.22			

Oeltzen 12261

				h	m	s	°	′	″			
1912												
Apr. 19	Hd.	EII		11	57	0.61	+65	26	26.74	0	7.0	3
23	Hd.	WII				0.63			27.40	0	6.5	2½
27	R.	EII				0.63			27.23	0	7.5	2
May 4	R.	WII				0.59			27.10	0	7.5	1
1915												
Dec. 23	Hd.	WI				0.49			27.68	0	7.5	3½
1916												
Jan. 8	Fn.	EI				0.56			27.33	0	7.0	3
14	Hd.	EI				0.57			28.06	0	7.0	2
Feb. 9	Hd.	WI				0.48			27.70	0	7.5	3
15	Hd.	WI				0.50			27.70	0	7.0	3
Mean	1914.39			11	57	0.562	+65	26	27.44			
Corr						−0.081			−0.33			

128 H^1. Camelopardalis

				h	m	s	°	′	″			
1913												
Jan. 14	R.	WII		12	0	13.00	+86	5	9.15	0	7.0	1
18	R.	EII				12.85			9.10	0	7.0	2
21	R.	EII				12.83			9.81	0	6.5	3
Feb. 4	R.	WII				12.73			9.62	0	7.0	2
1914												
Apr. 3	Wy.	WI				13.57			9.67	0	6.0	2
6	Fn.	WI				13.02			8.74	0	6.0	3
21	Hd.	EI				13.33			10.39	0	...	2
23	Wy.	EI				12.51			9.89	0	6.0	3
Mean	1913.67			12	0	12.98	+86	5	9.55			
Corr						−0.08			−0.39			

128 H^1. Camelopardalis s. p.

				h	m	s	°	′	″			
1912												
Sept. 17	R.	WII		12	0	12.51	+86	5	8.93	0	7.0	3
27	Hd.	EII				13.00			8.90	0	6.0	4
28	R.	EII				13.61			8.59	0	...	..
29	R.	EII				12.91			9.05	0	...	2
Oct. 8	Hd.	WII				12.54			8.81	0	8.0	3½
1914												
Sept. 1	An.	WI				.....			8.53	0	6.0	3
2	Wy.	WI				12.97			8.88	0	6.0	2½
4	Fn.	WI				12.32			8.87	0	6.0	3½
14	Fn.	EI				11.44			8.80	0	6.0	3
21	Hd.	EI				11.82			8.53	0	6.0	3
23	An.	EI				.....			8.28	0	7.5	4
Mean	1913.61			12	0	12.57	+86	5	8.74			
	1913.81											
Corr						−0.08			+0.44			

o Virginis

				h	m	s	°	′	″				
				12	0	37.449	+9	13	58.17				
						s			″				
1911													
May 15	Fn.	WII				+0.062			−0.16	I	3.9	2	
Nov. 26	*Hd.*	*WII*				.....	*+0.01*		*−0.04*	*0*	...	*1*	
30	*Hd.*	*WII*				*+0.023*	*+0.20*		*+0.19*	*0*	...	*3*	
Dec. 4	*R.*	*WII*				*+0.023*	*+0.46*		*+0.45*	*0*	...	..	
5	*R.*	*WII*				.....	*+0.76*		*+0.72*	*0*	...	..	
6	*R.*	*WII*				.....	*+0.29*		*+0.28*	*0*	...	..	
1912													
Apr. 8	Fn.	WII				+0.036			+0.85	I	3.9	3½	
9	Hd.	WII				−0.023			−0.18	I	3.9	3	
10	R.	WII				+0.053			.....	I	3.6	2	
11	Fn.	EII				+0.021			−0.35	I	3.7	2½	
20	Fn.	WII				−0.003			−0.21	I	...	2	
25	Fn.	EII				+0.028			.....	0	...	..	
May 1	R.	EII				+0.053			.....	I	3.9	2	
2	Fn.	EII				−0.014			+0.13	I	3.9	3½	
3	Hd.	EII				+0.018			+0.40	I	3.4	2	
9	Fn.	WII				+0.019			−0.57	I	3.9	2½	
10	Hd.	WII				+0.021			+0.38	I	3.9	2	
13	Fn.	WII				+0.059			+0.62	0	...	3½	
16	Fn.	WII				+0.030			−0.06	0	...	2½	
18	Hd.	EII				+0.007			+0.42	I	3.4	2	
20	Fn.	EII				+0.010			−0.12	0	...	..	
21	Hd.	WII				+0.024			−0.09	I	3.4	2	
24	Hd.	EII				+0.009			−0.03	0	3.4	3	
Nov. 18	*R.*	*EII*				*+0.020*	*+0.30*		*+0.23*	*0*	...	..	
1913													
Jan. 25	R.	EII				+0.032			.....	I	4.4	3½	

1913				″	″							
Feb.	8	R.	WII	+0.046		+0.39	I	4.4	2			
	15	R.	WII	+0.018		----	I	4.4	2			
Mar.	5	Fn.	EII	+0.031		+0.22	0	5.0	1½			
	11	R.	EII	+0.011		----	I	---	2			
	27	R.	EII	+0.041		−0.12	I	4.4	3			
	30	R.	EII	+0.009		----	I	4.4	3			
	31	Fn.	EII	+0.042		+0.53	I	3.7	2½			
Apr.	1	Hd.	EII	+0.020		+0.72	I	3.9	3			
	2	Fn.	EII	+0.035		+0.42	0	---	3			
	3	R.	EII	+0.009		----	0	---	3			
	6	R.	WII	+0.008		−0.37	I	4.4	2			
	7	Fn.	WII	+0.010		+0.01	I	3.9	3			
	16	Hd.	WII	+0.055		+0.99	I	3.1	3			
	17	R.	WII	+0.022		−0.38	I	3.9	2½			
	18	Fn.	WII	+0.034		−0.27	0	5.0	2½			
	19	R.	WII	+0.026		−1.50	I	3.4	2			
	21	Hd.	EII	+0.011		----	I	3.4	3			
	22	Fn.	EII	+0.011		+0.76	I	3.9	1½			
	24	Hd.	EII	+0.023		+1.55	I	3.4	1			
	25	Fn.	EII	−0.002		+1.20	I	3.9	1½			
	30	R.	EII	−0.017		+0.20	I	3.9	2			
May	12	Hd.	WII	+0.057		−0.26	0	---	2			
	13	Fn.	WII	+0.027		+0.30	0	---	2			
Nov.	*17*	*R.*	*WI*	-----	*+0.74*	*+0.85*	*0*	---	--			
	20	*R.*	*WI*	*+0.042*	*+1.04*	*+1.00*	*0*	---	--			
1914												
Jan.	17	Wy.	WI	+0.028		−0.92	I	3.2	2			
	18	Wy.	WI	+0.035		−0.50	0	---	2½			
	31	Fn.	WI	+0.020		+0.77	0	---	2½			
Feb.	17	Fn.	WI	+0.019		−0.04	I	4.4	3½			
	26	Hd.	EI	−0.007		----	I	4.4	2			
	27	Fn.	EI	+0.022		----	I	4.4	2			
Mar.	3	Fn.	WI	+0.016		----	0	---	3			
	4	Wy.	WI	−0.012		----	I	3.9	2½			
	7	Wy.	EI	+0.064		----	I	3.9	2½			
	12	Hd.	WI	+0.022		----	I	3.9	2			
	13	Fn.	WI	+0.014		−0.02	0	---	2			
	14	Wy.	WI	+0.013		+0.18	0	---	3½			
	22	Wy.	EI	+0.025		----	I	3.9	3			
	23	Fn.	EI	+0.062		+0.29	0	---	--			
	24	Wy.	EI	+0.033		----	I	3.9	2			
Apr.	9	Fn.	WI	+0.005		+0.27	I	3.9	2			
	10	Wy.	WI	+0.042		----	I	3.9	2			
	26	Hd.	EI	+0.001		+0.66	I	3.9	2			
	27	Wy.	EI	+0.026		+1.19	I	3.9	3			
	28	Hd.	EI	−0.004		+0.47	I	3.4	2			
	30	Wy.	WI	+0.050		−0.24	0	---	3			
May	2	Fn.	WI	+0.001		+0.45	I	4.4	3			
	6	Fn.	WI	+0.033		+0.56	0	---	2½			
	9	Fn.	WI	+0.034		+0.08	0	---	2			
	11	Hd.	WI	+0.067		+0.32	I	4.4	2½			
	15	Wy.	WI	+0.017		----	0	---	2½			
	16	Fn.	WI	+0.030		+0.56	I	3.9	2			
	23	Hd.	EI	+0.014		----	I	4.4	2			
Nov.	*2*	*An.*	*WI*	*−0.056*	*+0.43*	*+0.55*	*0*	---	*3*			
	13	*An.*	*WI*	-----	*+0.06*	*+0.10*	*0*	---	*3½*			
	16	*Wy.*	*EI*	*+0.112*	*−0.13*	*−0.07*	*0*	---	*3*			
	19	*Wy.*	*EI*	*−0.041*	----	----	*0*	---	*3*			
	20	*Fn.*	*EI*	*+0.026*	*−0.41*	*−0.38*	*0*	---	*3*			
	23	*Hd.*	*EI*	*+0.015*	*+0.04*	*+0.11*	*0*	---	*2*			
Dec.	22	Fn.	WI	−0.017		----	0	---	3½			
	27	Wy.	WI	−0.025		----	I	3.9	3			
1915												
Jan.	8	Hd.	EI	+0.036		----	I	3.4	2			
Mar.	30	Wy.	EI	+0.084		+1.31	0	---	3			
	31	An.	EI	+0.063		----	0	---	3			
Apr.	6	Wy.	EI	−0.013		+0.67	I	3.9	3			
	15	Hd.	WI	+0.003		+0.19	I	3.9	2			
	17	An.	WI	+0.053		----	0	---	--			
	19	Fn.	WI	+0.014		+0.22	0	---	2½			
	24	An.	WI	+0.011		+0.53	I	---	2			
May	2	Hd.	EI	+0.042		----	0	---	2½			
	6	Fn.	EI	+0.022		----	I	---	2½			
	8	Hd.	EI	+0.004		+0.97	I	3.9	3			
	11	Fn.	EI	+0.017		+1.07	0	---	2			
	14	Fn.	WI	+0.016		+0.32	0	---	2½			
	15	Wy.	WI	+0.029		+0.86	I	4.4	2½			

1915				s	″	″						
May	17	Hd.	EI	+0.023		+1.06	I	4.4	3			
	23	Wy.	WI	+0.028		−0.05	I	4.4	3			
	27	Wy.	WI	+0.037		+0.69	I	3.9	2½			
Nov.	*5*	*Hd.*	*EI*	*−0.004*	*+0.36*	*+0.40*	*0*	---	*2*			
	16	*Wy.*	*WI*	*+0.025*	*+0.13*	*+0.15*	*0*	---	*3½*			
	17	*Hd.*	*WI*	-----	*+0.49*	*+0.50*	*0*	---	*2*			
	21	*Fn.*	*EI*	*−0.032*	*+0.71*	*+0.79*	*0*	---	*3*			
1916												
Jan.	23	Fn.	EI	+0.011		+0.91	I	3.9	2½			
	25	Hd.	EI	+0.037		+0.45	I	3.9	2			
Feb.	3	Fn.	EI	+0.034		+0.82	I	4.4	3			
	7	Fn.	EI	+0.022		+1.01	I	4.4	2½			
	29	Hd.	WI	+0.018		+0.60	I	3.4	2			
Mar.	3	Hd.	WI	+0.013		+0.39	I	4.4	3			
	4	Wy.	WI	+0.029		+0.28	I	4.4	3½			
	10	Fn.	WI	−0.013		+1.31	I	4.4	2½			
Apr.	15	Hd.–Fn.	EI	-----		−0.70	I	---	2	R.		
	18	Hd.–Fn.	EI	-----		+0.23	I	4.4	2			
	19	Hd.–Fn.	WI	-----		+0.33	0	---	3			
	20	Hd.–Wy.	WI	-----		−0.91	0	---	3	R.		
Mean			1913.99	+0.023		+0.33						
			1914.04									
Corr				−0.081		−0.21						

Oeltzen 12335

					h	m	s	°	′	″			
1912													
Mar.	18	Fn.	EII		12	1	32.849	+49	39	32.59	0	---	--
	25	Fn.	WII				32.843			33.52	0	7.5	1½
	26	Hd.	WII				32.812			33.54	0	---	3
Apr.	16	Hd.	EII				32.815			33.02	0	---	2
1915													
Apr.	8	Hd.	EI				32.792			33.33	0	7.5	2
	13	Fn.	WI				32.733			34.26	0	7.5	2½
	14	An.	WI				32.769			33.28	0	7.5	2
May	10	Hd.	EI				32.805			34.04	0	7.5	2
Mean			1913.77		12	1	32.802	+49	39	33.45			
Corr							−0.081			−0.29			

Weisse$_1$ XI 1008

					h	m	s	°	′	″			
1912													
Mar.	16	Fn.	EII		12	2	10.873	−11	44	23.65	0	7.3	3½
	17	R.	EII				10.874			23.10	0	---	--
Apr.	2	Hd.	WII				10.884			21.70	0	---	5
	3	R.	WII				10.862			22.83	0	8.0	1
1915													
Dec.	23	Hd.	WI				10.861			23.99	0	7.0	3½
1916													
Jan.	8	Fn.	EI				10.865			23.58	0	6.5	3
	14	Hd.	EI				10.870			23.49	0	---	2
Feb.	9	Hd.	WI				10.835			24.07	0	7.5	3
Mean			1914.14		12	2	10.866	−11	44	23.30			
Corr							−0.081			−0.13			

Piazzi XI 234

					h	m	s	°	′	″			
1913													
Jan.	25	R.	EII		12	2	24.361	−23	15	57.40	0	---	3½
Feb.	13	R.	WII				24.403			-----	0	---	--
	15	R.	WII				24.379			58.75	0	7.5	2½
	25	R.	EII				24.352			57.48	0	7.5	2
Mar.	11	R.	EII				24.297			58.16	0	---	2½
	20	R.	WII				24.326			58.76	0	8.0	3
1914													
Feb.	21	Wy.	WI				24.341			58.65	0	8.0	3
	27	Fn.	EI				24.315			57.43	0	7.5	3
Mar.	12	Hd.	WI				24.356			58.96	0	7.5	3
	26	Fn.	EI				24.370			58.71	0	7.5	3
Mean			1913.56		12	2	24.350	−23	15	58.26			
			1913.61										
Corr							−0.081			−0.05			

Groombridge 1854

				h	m	s	°	′	″			
1912												
Apr. 9	Hd.	WII		12	4	54.506	+39	8	2.89	0	7.0	2
10	R.	WII				54.504			2.69	0	7.5	1½
19	Hd.	EII				54.511			2.47	0	7.2	3
27	R.	EII				54.506			2.26	0	7.5	1½
1916												
Jan. 7	Wy.	EI				54.470			2.31	0	7.0	2½
23	Fn.	EI				54.540			3.15	0	7.0	2
Feb. 15	Hd.	WI				54.453			3.05	0	7.0	3
22	Fn.	WI				------			2.43	0	---	2½
29	Hd.	WI				54.437			2.97	0	7.0	2
1917												
Apr. 9	Hd.	WI				------			2.99	0	7.5	2
10	Fn.	WI				------			4.47	0	7.5	2½
20	Wy.	EI				------			1.94	0	7.5	3
May 1	Fn.	EI				------			3.16	0	---	3
Mean------	1914.19			12	4	54.491	+39	8	2.83			
	1915.30											
Corr----------						−0.081			−0.27			

10 Virginis

				h	m	s	°	′	″			
1912												
Apr. 20	Fn.	WII		12	5	4.621	+2	24	10.70	0	6.1	2
23	Hd.	WII				4.627			11.83	0	6.0	3
May 1	R.	EII				4.631			11.50	0	5.5	2
2	Fn.	EII				4.639			10.24	0	6.5	2
1915												
May 10	Hd.	EI				4.615			10.50	0	6.0	2
14	Fn.	WI				4.632			11.12	0	---	2½
15	Wy.	WI				4.626			11.37	0	6.5	2½
17	Hd.	EI				4.628			10.91	0	6.5	3
Mean------	1913.84			12	5	4.627	+2	24	11.02			
Corr----------						−0.081			−0.18			

Bradley 1627

				h	m	s	°	′	″			
1913												
Mar. 21	Fn.	WII		12	5	28.191	+6	18	25.98	0	6.5	3½
22	Hd.	WII				28.199			26.61	0	6.0	2
28	Fn.	EII				28.192			26.54	0	6.5	2
29	Hd.	EII				28.215			26.41	0	5.8	3
1914												
Apr. 3	Wy.	WI				28.201			26.09	0	6.0	2½
6	Fn.	WI				28.210			25.89	0	6.0	2
21	Hd.	EI				28.178			26.43	0	6.5	2
26	Hd.	EI				28.161			26.55	0	6.0	3
Mean------	1913.76			12	5	28.193	+6	18	26.31			
Corr----------						−0.081			−0.19			

ε Corvi

				h	m	s	°	′	″			
				12	5	29.621	−22	7	9.33			
1912												
May 10	Hd.	WII				+0.044			−0.09	I	3.7	2
13	Fn.	WII				+0.034			+1.02	I	3.1	3½
19	R.	EII				+0.058			+0.02	I	---	5
20	Fn.	EII				+0.054			−0.01	I	3.6	4
1915												
Mar. 30	Wy.	EI				+0.059			+0.65	0	---	3½
Apr. 6	Wy.	EI				−0.038			+0.16	I	3.9	3½
15	Hd.	WI				+0.064			−0.18	I	3.4	3
17	An.	WI				+0.129			−0.70	0	---	3½
Mean------	1913.82					+0.050			+0.11			
Corr----------						−0.081			−0.06			

Bradley 1628

				h	m	s	°	′	″			
1913												
Jan. 19	R.	EII		12	5	56.485	+17	18	36.02	0	---	2
21	R.	EII				56.462			36.44	0	7.0	2
Feb. 4	R.	WII				56.466			35.79	0	7.0	2
8	R.	WII				56.463			36.09	0	7.0	2½
1914												
Mar. 13	Fn.	WI				56.439			35.71	0	6.5	2
14	Wy.	WI				56.448			36.25	0	7.0	3½
22	Wy.	EI				56.447			36.18	0	6.0	2½
24	Wy.	EI				56.460			36.78	0	6.0	2½
Mean------	1913.65			12	5	56.459	+17	18	36.16			
Corr----------						−0.081			−0.22			

Weisse$_1$ XII 45

				h	m	s	°	′	″			
1912												
May 3	Hd.	EII		12	6	45.153	−2	11	48.00	0	---	2
4	R.	WII				45.121			47.59	0	7.5	2
9	Fn.	WII				45.122			49.15	0	7.0	3
18	Hd.	EII				45.149			48.98	0	6.5	--
1915												
May 6	Fn.	EI				45.152			47.50	0	---	3
8	Hd.	EI				45.155			47.30	0	6.5	3
23	Wy.	WI				45.154			48.34	0	7.5	3
27	Wy.	WI				45.138			47.29	0	6.7	2½
Mean------	1913.86			12	6	45.143	−2	11	48.02			
Corr----------						−0.081			−0.17			

Bradley 1630

				h	m	s	°	′	″			
1913												
Jan. 25	R.	EII		12	7	17.287	+26	22	18.51	0	6.0	2½
27	Fn.	EII				17.306			18.38	0	6.3	1½
Feb. 13	R.	WII				17.283			18.37	0	6.0	2
15	R.	WII				17.293			17.99	0	5.5	1½
1914												
Feb. 17	Fn.	WI				17.308			17.86	0	5.5	3
27	Fn.	EI				17.271			18.27	0	6.0	1½
Mar. 3	Fn.	WI				17.295			17.60	0	6.0	3
Apr. 27	Wy.	EI				17.295			17.91	0	6.0	2½
Mean------	1913.65			12	7	17.292	+26	22	18.11			
Corr----------						−0.081			−0.24			

Oeltzen 11982

				h	m	s	°	′	″			
1912												
Mar. 13	Fn.	EII		12	7	19.958	−25	26	28.25	0	8.0	3
16	Fn.	EII				19.995			27.13	0	7.3	3½
25	Fn.	WII				19.967			25.63	0	8.2	3½
Apr. 2	Hd.	WII				19.936			[24.87][1]	0	---	5
1916												
Feb. 3	Fn.	EI				20.002			27.22	0	8.0	3
7	Fn.	EI				20.032			26.00	0	8.0	3
9	Hd.	WI				20.014			27.27	0	8.5	3
Mar. 3	Hd.	WI				20.122			27.04	0	7.5	3
Mean------	1914.17			12	7	20.003	−25	26	26.93			
	1914.44											
Corr----------						−0.081			−0.03			

4 H. Draconis

				h	m	s	°	′	″			
				12	7	59.714	+78	6	58.89			
1913												
Mar. 5	Fn.	EII				−0.03			+0.07	0	5.3	2
11	R.	EII				−0.07			−0.23	0	---	2½
21	Fn.	WII				+0.18			+0.60	0	5.5	3½
22	Hd.	WII				−0.10			+1.01	0	5.5	3
1914												
Jan. 17	Wy.	WI				+0.20			−0.41	0	5.0	3
18	Wy.	WI				+0.05			−0.82	0	---	2½
28	Fn.	WI				−0.11			−0.17	0	5.5	3

[1] Only one bisection.

				s	″				
1914									
Jan. 31	Fn.	WI		−0.09	−0.42	0	5.5	2	
Feb. 9	Hd.	EI		+0.02	+0.09	0	6.0	3	
26	Hd.	EI		+0.02	+0.39	0	6.0	3	
1916									
Apr. 15	Hd.–Fn.	EI		----	+0.38	I	4.4	2	
18	Hd.–Fn.	EI		----	+0.24	0	---	3	R.
19	Hd.–Fn.	WI		----	+0.79	0	---	3	R.
20	Hd.–Wy.	WI		----	+0.24	0	6.0	3	
Mean		1913.73		+0.007	+0.06				
		1914.16							
Corr				−0.081	−0.36				

4 H. Draconis s. p.

			h	m	s	°	′	″				
			12	7	59.713	+78	6	58.88				
1911												
Oct. 11	Hd.	WII			−0.05			−0.78	0	5.5	4	
12	R.	WII			−0.16			−0.96	0	5.5	4½	
Nov. 19	Fn.	EII			+0.11			−1.32	0	5.4	3	
21	Fn.	EII			+0.12			−0.99	0	5.6	3	
1914												
Nov. 13	Fn.	WI			−0.14			−1.89	0	---	4	
17	Wy.	EI			−0.08			−1.15	0	5.5	3	
18	Fn.	EI			+0.01			−1.32	0	6.5	3	
Dec. 2	An.	WI			----			−1.25	0	---	3½	
14	Fn.	WI			−0.10			+0.56	0	5.0	3½	
16	An.	WI			----			−0.06	0	6.0	3	
Mean		1913.36			−0.036			−0.92				
		1913.68										
Corr					−0.081			+0.50				

Bradley 1635

			h	m	s	°	′	″				
1913												
Feb. 19	Fn.	EII	12	8	51.001	+10	45	46.92	0	6.5	3	
25	R.	EII			50.993			47.16	0	5.5	2	
Mar. 17	Fn.	WII			50.969			47.29	0	6.5	3½	
20	R.	WII			51.000			46.89	0	5.5	3½	
1914												
Mar. 4	Wy.	WI			50.944			46.48	0	6.0	2½	
7	Wy.	EI			51.002			47.27	0	5.8	2½	
12	Hd.	WI			50.986			46.86	0	6.5	3	
26	Fn.	EI			50.956			47.15	0	6.5	2½	
Mean		1913.69	12	8	50.981	+10	45	47.00				
Corr					−0.081			−0.21				

δ Ursæ Majoris

			h	m	s	°	′	″				
			12	10	58.776	+57	31	57.64				
1912												
Apr. 10	R.	WII			−0.135			−0.28	I	3.4	1	
20	Fn.	WII			−0.093			−0.38	I	2.8	1½	
27	R.	EII			−0.169			+0.39	I	---	--	
May 1	R.	EII			−0.181			−0.28	I	3.9	3	
1915												
Apr. 15	Hd.	WI			−0.184			+0.49	I	2.9	2	
17	An.	WI			−0.147			−0.06	I	---	2½	
May 5	Hd.	EI			−0.151			+0.39	I	2.9	2½	
6	Fn.	EI			−0.145			+0.46	I	2.9	2	
1916												
Apr. 15	Hd.–Fn.	EI			-----			+0.63	I	---	2	R.
18	Hd.–Fn.	EI			-----			+0.11	I	3.4	2	
19	Hd.–Fn.	WI			-----			+0.75	I	4.4	3	
20	Hd.–Wy.	WI			-----			−0.56	I	---	3	R.
Mean		1913.81			−0.151			+0.16				
		1914.31										
Corr					−0.081			−0.31				

γ Corvi

			h	m	s	°	′	″				
			12	11	10.463	−17	2	31.70				
1912					s		″	″				
Apr. 3	R.	WII			+0.010			+0.20	I	2.9	3½	
9	Hd.	WII			+0.039			−1.07	II	2.4	4	
19	Hd.	EII			+0.068			−0.85	II	2.6	3	
25	Fn.	EII			+0.019			−1.09	0	---	3½	
1915												
May 8	Hd.	EI			+0.061			+0.03	I	3.4	3	
10	Hd.	EI			+0.055			−0.03	I	3.4	3	
14	Fn.	WI			+0.039			+0.07	0	---	2½	
15	Wy.	WI			+0.054			−0.62	I	3.4	3	
1916												
June 1	*Fn.*	*EI*			*+0.038*	*+0.44*		*+0.38*	*I*	---	*2*	
2	*Hd.*	*EI*			*+0.004*	*−0.27*		*−0.20*	*I*	---	*3*	
5	*Hd.*	*EI*			*+0.047*	*−0.64*		*−0.69*	*I*	---	*3*	
13	*Fn.*	*EI*			*+0.030*	*+0.05*		*−0.03*	*0*	---	*3*	
20	*Hd.*	*WI*			*+0.079*	*+0.08*		*+0.06*	*0*	---	*2*	
22	*Fn.*	*WI*			*+0.064*	*+0.10*		*−0.01*	*0*	---	*3*	
23	*Hd.*	*WI*			*+0.035*	*−0.30*		*−0.38*	*0*	---	*2½*	
July 6	*Wy.*	*EI*			*+0.046*	*+0.34*		*+0.16*	*0*	---	*3½*	
Nov. 6	*Wy.*	*EI*			*+0.020*	*+0.46*		*+0.64*	*0*	---	*3½*	
16	*Hd.*	*WI*			*+0.065*	*−0.22*		*−0.09*	*0*	---	*3*	
30	*Fn.*	*EI*			*+0.077*	*+0.17*		*+0.21*	*0*	---	*3*	
1917												
Apr. 9	Hd.	WI			+0.092			−0.70	I	3.4	3	
10	Fn.	WI			+0.094			−1.14	I	2.9	3	
16	Fn.	WI			+0.086			+0.03	I	3.4	2½	
19	Fn.	EI			+0.047			+0.88	0	---	3½	
May 1	Fn.	EI			+0.149			----	I	---	4½	
3	Hd.	EI			+0.047			−0.06	I	3.4	2½	
10	Fn.	WI			+0.055			−0.87	I	3.9	3	
11	Wy	WI			+0.029			−0.14	I	3.4	3	
14	Wy.	WI			+0.062			+0.32	I	3.4	3½	
15	Hd.	WI			+0.080			+0.36	0	---	3	
June 4	*Wy.*	*WI*			*+0.082*	*+0.38*		*+0.43*	*I*	---	*3½*	
25	*Wy.*	*WII*			*+0.004*	*−1.00*		*−0.96*	*0*	---	*4*	
July 30	*Wy.*	*EII*			*+0.084*	*−0.81*		*−0.53*	*0*	---	*3½*	
Aug. 25	*Wy.*	*EII*			*+0.083*	*+0.88*		*+1.28*	*0*	---	*4*	
1918												
Mar. 29	Wy.	WII			+0.086			−0.14	I	2.9	3	
Apr. 15	Fn.	EII			+0.100			+0.20	I	2.9	2½	
May 2	Fn.	EII			+0.063			+0.23	I	2.9	3	
8	Fn.	EII			+0.061			−0.26	I	2.9	3	
Mean		1916.23			+0.063			−0.22				
		1916.18										
Corr					−0.081			−0.10				

Groombridge 1865

			h	m	s	°	′	″				
1913												
Jan. 18	R.	EII	12	11	28.10	+73	3	7.45	0	7.0	2	
21	R.	EII			28.06			7.32	0	6.5	2	
Feb. 4	R.	WII			28.03			6.80	0	6.5	2	
8	R.	WII			28.05			7.43	0	6.5	2	
1914												
Apr. 9	Fn.	WI			28.20			7.43	0	6.0	1½	
10	Wy.	WI			28.19			8.15	0	6.0	2	
13	Fn.	EI			28.11			6.98	0	6.0	2	
21	Hd.	EI			28.13			7.20	0	6.5	2	
Mean		1913.68	12	11	28.109	+73	3	7.34				
Corr					−0.081			−0.35				

Groombridge 1865 s. p.

			h	m	s	°	′	″				
1911												
Aug. 22	R.	EII	12	11	27.93	+73	3	7.08	0	7.0	2	
Sept. 1	Fn.	WII			27.97			6.26	0	---	--	
2	R.	WII			28.17			5.89	0	6.5	3	
30	R.	EII			28.04			5.84	0	---	3	
1914												
Nov. 9	Hd.	WI			28.18			7.27	0	6.5	3	
10	Fn.	WI			28.12			6.26	0	7.0	3½	
19	Hd.	EI			28.11			6.33	0	6.5	3	
21	Fn.	EI			28.23			4.81	0	7.0	3½	
Mean		1913.28	12	11	28.094	+73	3	6.22				
Corr					−0.081			+0.56				

2 Canum Venaticorum [1]

				h m s	° ′ ″				
				12 11 37.260	+41 9 39.54				
1912									
May	10	Hd.	WII	−0.092	+1.04	0	6.2	1	
	13	Fn.	WII	−0.108	+0.99	0	6.2	2	
	20	Fn.	EII	−0.185	+0.17	0	6.3	2½	
	24	Hd.	EII	−0.164	+1.22	0	---	--	
1915									
Mar.	29	Fn.	EI	−0.035	----	0	---	3½	
May	11	Fn.	EI	−0.097	+1.37	0	---	2	
	17	Hd.	EI	−0.072	+0.95	0	6.0	3	
	23	Wy.	WI	−0.122	+0.92	0	6.5	3	
	27	Wy.	WI	−0.121	+1.06	0	6.0	2	
1916									
Mar.	10	Fn.	WI	−0.166	----	0	6.0	2	
1917									
Apr.	20	Wy.	EI	−0.128	----	0	---	3½	
1918									
May	6	Fn.	EII	−0.057	----	0	6.5	2	
Mean		1914.84		−0.112	+0.96				
		1913.88							
Corr				−0.081	−0.27				

Bradley 1641

				h m s	° ′ ″				
1913									
Mar.	29	Hd.	EII	12 11 47.434	+24 26 44.32	I	4.4	2	
	30	R.	EII	47.430	44.19	0	---	3	
Apr.	6	R.	WII	47.418	44.60	0	5.5	2	
	7	Fn.	WII	47.393	44.34	0	5.0	2	
1914									
Mar.	13	Fn.	WI	47.430	44.31	0	6.0	1½	
	14	Wy.	WI	47.352	44.80	0	6.0	3½	
	22	Wy.	EI	47.443	44.88	0	5.5	2½	
	24	Wy.	EI	47.462	44.80	0	5.5	2½	
Mean		1913.73		12 11 47.420	+24 26 44.53				
Corr				−0.081	−0.24				

Lalande 23006

				h m s	° ′ ″				
1912									
May	2	Fn.	EII	12 12 24.752	−16 11 38.73	0	7.0	2	
	3	Hd.	EII	24.748	37.08	0	---	2	
	4	R.	WII	24.740	37.57	0	7.0	2½	
	9	Fn.	WII	24.737	36.85	0	6.6	3½	
1916									
Jan.	7	Wy.	EI	24.724	37.40	0	6.5	3½	
	8	Fn.	EI	24.701	37.45	0	7.0	3½	
Feb.	9	Hd.	WI	24.754	38.15	0	6.5	3	
	15	Hd.	WI	24.719	38.02	0	6.5	3	
Mean		1914.20		12 12 24.734	−16 11 37.66				
Corr				−0.081	−0.11				

Weisse$_2$ XII 225

				h m s	° ′ ″				
1913									
Jan.	25	R.	EII	12 13 59.500	+30 45 5.32	0	6.5	4	
	27	Fn.	EII	59.539	5.79	0	6.5	1½	
Feb.	13	R.	WII	59.524	6.58	0	6.5	2	
	15	R.	WII	59.552	5.86	0	6.0	2	
1914									
Apr.	23	Wy.	EI	59.568	6.26	0	6.5	2½	
	26	Hd.	EI	59.555	5.91	0	6.0	3	
	30	Wy.	WI	59.571	5.85	0	6.7	3½	
May	2	Fn.	WI	59.550	6.02	0	6.5	2½	
Mean		1913.71		12 13 59.545	+30 45 5.95				
Corr				−0.081	−0.25				

[1] Double; n. fol. component observed.

Bradley 1643

				h m s	° ′ ″				
1912									
Mar.	13	Fn.	EII	12 14 3.472	−0 17 12.58	0	6.1	3	
	16	Fn.	EII	3.464	12.60	0	5.9	3	
	25	Fn.	WII	3.433	13.04	0	6.0	2½	
	26	Hd.	WII	3.462	13.04	0	---	3½	
1916									
Jan.	23	Fn.	EI	3.454	13.01	0	6.0	2	
	25	Hd.	EI	3.454	13.31	0	6.0	2	
Feb.	29	Hd.	WI	3.457	13.35	0	6.0	2	
Mar.	3	Hd.	WI	3.492	13.36	0	6.0	3	
Mean		1914.17		12 14 3.461	−0 17 13.04				
Corr				−0.081	−0.18				

Bradley 1672

				h m s	° ′ ″				
				12 14 25.68	+88 11 55.96				
1911				s	″				
Dec.	28	Hd.	EII	----	+0.81	0	6.0	3	R.
	28	Hd.	EII	+1.19	+0.68	0	---	3	
1912									
Jan.	1	R.	EII	−0.81	−0.83	0	---	--	
	4	R.	EII	+0.61	+1.35	0	---	--	
	7	Fn.	EII	----	+0.45	0	---	--	R.
	7	Fn.	EII	+0.05	+0.20	0	---	--	
	9	Fn.	EII	----	+1.05	0	---	--	R.
	9	Fn.	EII	+1.27	+0.49	0	---	--	
	12	Fn.	WII	+0.31	----	0	---	--	
	15	Hd.	WII	+1.10	−0.58	0	6.0	3	
Dec.	15	Hd.	EII	----	+0.41	0	---	3	R.
	15	Hd.	EII	+0.25	−0.01	0	6.0	3	
	16	Hd.	EII	----	−0.36	0	---	3	R.
	16	Hd.	EII	+0.29	−0.05	0	6.0	3	
	19	R.	EII	----	+0.61	0	---	--	R.
	19	R.	EII	+0.28	+0.42	0	7.0	3½	
	21	R.	EII	----	−0.01	0	---	1½	R.
	21	R.	EII	+1.48	+0.28	0	6.5	1½	
	22	R.	WII	----	−0.12	0	---	1½	R.
	22	R.	WII	[+0.22][2]	−0.10	0	6.5	2	
	28	R.	WII	----	+0.01	0	---	2	R.
	28	R.	WII	[+0.17][2]	−0.66	0	6.0	2	
	30	Fn.	WII	----	−0.36	0	---	3½	R.
	30	Fn.	WII	+0.56	+0.07	0	---	3½	
1913									
Jan.	1	Hd.	WII	----	+0.26	0	---	2	R.
	1	Hd.	WII	+0.15	+0.12	0	6.0	2	
	3	R.	WII	----	+1.05	0	---	3	R.
	3	R.	WII	[−0.66][2]	+0.33	0	---	3	
	8	Hd.	WII	+0.13	−0.44	0	6.0	2	
	12	Fn.	WII	−0.31	−0.80	0	6.5	3	
Dec.	26	Fn.	WI	+1.30	+0.30	0	6.0	3	
	29	Hd.	WI	----	+1.32	0	---	3	R.
	29	Hd.	WI	+1.08	−0.09	0	6.2	3	
1914									
Jan.	5	Hd.	EI	----	−0.04	0	---	2	R.
	5	Hd.	EI	+1.08	−0.20	0	6.5	2	
	8	Hd.	EI	----	−0.38	0	---	3½	R.
	8	Hd.	EI	+0.29	+0.50	0	---	2	
	16	R.	EI	−0.16	+0.04	0	6.0	2½	
Dec.	16	Hd.	WI	+0.61	−0.01	0	6.5	3	
	17	An.	WI	----	+1.22	0	---	2½	R.
	17	An.	WI	----	+0.54	0	6.5	2	
	21	Hd.	WI	−0.12	−0.01	0	6.5	3½	
	22	Fn.	WI	----	+0.38	0	---	3½	R.
	22	Fn.	WI	+0.12	+0.63	0	6.5	3½	
	25	Fn.	WI	[+0.90][2]	----	0	6.5	3½	
	27	Wy	WI	----	+1.04	0	---	3½	R.
	27	Wy.	WI	+0.68	+0.42	0	6.5	3½	
1915									
Jan.	4	An.	EI	----	+0.30	0	---	3	R.
	4	An.	EI	----	+1.43	0	6.5	2½	
	7	An.	EI	----	+0.22	0	---	3½	R.
	7	An.	EI	----	+0.73	0	6.5	3	
	8	Hd.	EI	----	−0.05	0	---	2½	R.
	8	Hd.	EI	+1.88	+0.05	0	6.2	2	

[2] Observed by making settings with the micrometer.

				s	″	″				
1915										
Jan.	9	Wy.	EI	----		+0.51	0	---	3	R.
	9	Wy.	EI	+1.80		+1.15	0	6.5	2½	
Dec.	*9*	*Fn.*	*WI*	*+0.55*	*+0.96*	*+0.96*	*0*	---	*3*	
	21	Hd.	WI	+1.60		+0.27	0	6.0	3	
	22	Fn.	WI	----		−0.79	0	---	3	R.
	22	Fn.	WI	[+0.33][1]		+0.99	0	6.5	3	
	23	Hd.	WI	+1.49		+1.09	0	---	4	
1916										
Jan.	3	Wy.	EI	+1.05		+0.32	0	6.5	3	
	14	Hd.	EI	+0.17		+1.10	0	6.0	2	
Apr.	15	Hd.–Fn.	EI	----		+0.85	0	---	2	R.
	18	Hd.–Fn.	EI	----		+0.17	0	6.5	2½	
	19	Hd.–Fn.	WI	----		+0.14	0	---	3	
	20	Hd.–Wy.	WI	----		−0.39	0	---	3	R.
Dec.	*7*	*Hd.*	*EI*	*+0.18*	*+0.71*	*+0.67*	*0*	---	*2*	
	13	Fn.	EI	+0.62		+0.51	0	6.5	3	
	25	Fn.	WI	−0.15		−0.25	0	6.5	2½	
Mean			1913.94	+0.62		+0.25				
			1914.16							
Corr				−0.08		−0.40				

Bradley 1672 s. p.

	h	m	s	°	′	″
	12	14	25.63	+88	11	55.99

				s	″	″				
1911										
Dec.	28	Hd.	EII	−0.92		+0.01	0	6.0	3	
	29	Hd.	EII	----		−0.82	0	---	3	R.
	29	Hd.	EII	−1.31		+0.28	0	---	3	
1912										
Jan.	*9*	*Fn.*	*EII*	*[+1.84][1]*	----	----	*0*	---	*4*	
	10	*Fn.*	*EII*	----	*−0.88*	*−0.73*	*0*	---	--	*R.*
	10	*Fn.*	*EII*	*[+0.96][1]*	*−1.10*	*−0.95*	*0*	---	--	
Dec.	16	Hd.	EII	−0.94		−0.70	0	---	3½	
	19	Hd.	EII	+0.49		−0.62	0	6.5	2½	
	20	R.	EII	----		−0.09	0	---	2½	R.
	20	R.	EII	[+0.58][1]		−0.97	0	6.0	2½	
	21	R.	EII	+0.29		+0.03	0	6.5	1½	
	24	Hd.	WII	----		−0.77	0	---	2½	R.
	24	Hd.	WII	+1.09		−0.67	0	6.5	3	
	28	R.	WII	----		−1.38	0	---	4	R.
	28	R.	WII	[+1.35][1]		+0.18	0	---	4	
1913										
Jan.	2	Hd.	WII	+0.97		−0.56	0	---	3	
	4	Fn.	WII	----		−0.98	0	---	3½	R.
	4	Fn.	WII	−0.01		−0.29	0	6.5	3½	
	9	*Hd.*	*WII*	*+0.04*	*+0.11*	*+0.14*	*0*	---	*2½*	
Dec.	20	Hd.	WI	+0.35		−0.60	0	6.5	3	
	22	Fn.	WI	+1.48		−0.65	0	---	3½	
	27	Wy.	WI	−0.87		−1.41	0	---	2	
	29	Fn.	WI	----		−1.29	0	---	2	R.
	29	Fn.	WI	+0.49		−0.81	0	---	2	
	30	Wy.	WI	+1.06		−0.59	0	6.0	2½	
1914										
Jan.	5	R.	EI	+0.39		+0.32	0	6.0	3½	
	6	Fn.	EI	----		−1.03	0	---	3½	R.
	6	Fn.	EI	+0.38		−0.49	0	---	3½	
	8	R.	EI	+1.62		+0.50	0	6.0	2½	
Dec.	14	Fn.	WI	[−0.06][1]		−0.82	0	6.5	3½	
	16	An.	WI	----		−2.06	0	6.5	3	
	17	Fn.	WI	+1.39		−0.68	0	6.0	2	
	18	Hd.	WI	+0.26		−1.73	0	6.5	3	
	22	Wy.	WI	----		−1.31	0	---	4	R.
	22	Wy.	WI	+1.52		−0.41	0	6.5	3½	
	23	Hd.	WI	+1.11		−1.03	0	---	2	
	30	An.	EI	----		−2.30	0	6.0	3½	
1915										
Jan.	2	An.	EI	----		−0.21	0	6.5	--	
	3	An.	EI	----		−1.46	0	---	3	R.
	3	An.	EI	----		−1.20	0	6.5	2½	
	4	Hd.	EI	----		−0.80	0	---	3	R.
	4	Hd.	EI	+1.15		−0.47	0	6.5	2	
	5	Wy.	EI	----		−1.11	0	---	3	R.
	5	Wy.	EI	+2.14		−0.44	0	5.5	3	
Dec.	10	Wy.	WI	----		−0.82	0	---	3	R.
	10	Wy.	WI	+0.37		−0.81	0	6.5	2½	

				s	″	″				
1915										
Dec.	11	Fn.	WI	−0.71		−0.59	0	7.0	2½	
	15	Fn.	WI	----		−0.61	0	---	3	R.
	15	Fn.	WI	[+2.16][1]		−0.48	0	---	3	
	18	Wy.	WI	−0.51		----	0	---	4	
	21	Fn.	WI	----		−1.20	0	---	2½	R.
	21	Fn.	WI	[−0.01][1]		−1.52	0	6.5	2½	
	22	Hd.	WI	+0.44		−1.46	0	6.5	3	
1916										
Jan.	3	Hd.	EI	−0.18		−0.12	0	6.5	3½	
	14	*Wy.*	*EI*	*+2.11*	*−0.90*	*−0.81*	*0*	---	*3½*	
Dec.	12	Fn.	EI	+0.75		−1.49	0	---	3½	
	14	Fn.	EI	+1.18		−0.69	0	---	2½	
	19	Hd.	WI	+0.17		−1.60	0	6.0	3	
	26	Fn.	WI	+0.40		−1.06	0	6.5	2½	
	28	Fn.	WI	+1.12		----	0	6.5	3	
Mean			1914.64	+0.47		−0.72				
			1914.57							
Corr				−0.08		+0.42				

Bradley 1644

				h	m	s	°	′	″			
1913												
Mar.	5	Fn.	EII	12	14	42.219	−8	24	51.88	0	7.3	2½
	11	R.	EII			42.227			51.47	0	---	3
	20	R.	WII			42.263			51.94	0	7.0	3
	21	Fn.	WII			42.226			52.25	0	7.0	3½
1914												
Apr.	3	Wy.	WI			42.225			52.55	0	7.0	2½
	6	Fn.	WI			42.256			52.90	0	7.0	3
	13	Fn.	EI			42.239			51.56	0	7.0	3
Mean			1913.66	12	14	42.236	−8	24	52.08			
Corr						−0.081			−0.15			

η Virginis

	h	m	s	°	′	″
	12	15	18.069	−0	10	0.22

				s	″	″				
1911										
May	17	T.	WII	+0.003		+1.24	0	---	2	
	18	Fn.	WII	+0.009		−0.02	--	---	--	
	20	T.	WII	−0.038		−0.01	I	4.9	2	
	22	Fn.	WII	+0.036		−0.22	0	---	2	
	24	T.	EII	−0.008		+0.46	0	---	--	
	25	Fn.	EII	−0.001		−0.24	I	4.4	--	
Nov.	*21*	*R.*	*EII*	*−0.033*	----	----	*0*	---	--	
	26	*Hd.*	*WII*	-----	*−0.88*	*−0.90*	*0*	---	--	
Dec.	*4*	*R.*	*WII*	*+0.014*	*−1.41*	*−1.43*	*0*	---	--	
	5	*R.*	*WII*	-----	*−0.82*	*−0.87*	*0*	---	--	
	6	*R.*	*WII*	-----	*+0.43*	*+0.41*	*0*	---	--	
	7	*R.*	*WII*	*+0.050*	*−0.19*	*−0.21*	*0*	---	--	
	10	*Hd.*	*EII*	*+0.015*	*−0.63*	*−0.52*	*I*	---	*3*	
1912										
Apr.	2	Hd.	WII	−0.002		----	0	---	5	
	3	R.	WII	−0.010		+0.42	I	4.4	2½	
	11	Fn.	EII	−0.006		−0.38	0	---	3½	
May	16	Fn.	WII	−0.003		−0.54	0	---	2½	
	18	Hd.	EII	−0.002		−0.22	I	3.7	2	
	21	Hd.	WII	−0.016		−0.29	I	3.9	2	
	24	Hd.	EII	−0.008		−0.21	I	3.4	3	
1913										
Feb.	8	R.	WII	+0.018		----	I	4.4	2½	
	25	R.	EII	+0.012		+0.30	I	3.9	2	
Mar.	27	R.	EII	+0.005		+0.65	I	3.9	3	
	31	Fn.	EII	−0.007		−0.19	I	4.7	3	
Apr.	1	Hd.	EII	+0.020		+0.33	I	---	3	
	2	Fn.	EII	−0.016		−0.64	0	---	3½	
	3	R.	EII	−0.012		----	0	---	3	
	16	Hd.	WII	+0.014		+0.32	I	3.4	3	
	17	R.	WII	−0.028		−0.42	I	2.9	2	
	18	Fn.	WII	−0.026		−1.21	I	---	2½	
	21	Hd.	EII	+0.037		−0.24	I	3.9	3	
	22	Fn.	EII	+0.001		+0.51	0	--	1½	
	24	Hd.	EII	+0.018		+0.31	I	3.4	1	
	25	Fn.	EII	−0.033		+0.55	I	3.9	1½	
	30	R.	EII	−0.015		+0.15	I	3.9	2	

[1] Observed by making settings with the micrometer.

				s	"	"			
1913									
May	12	Hd.	WII	0.000		+0.02	I	---	3
	13	Fn.	WII	−0.005		+0.24	0	---	2
	15	Hd.	WII	−0.027		+0.14	I	---	2
Nov.	*11*	*Hd.*	*WI*	*+0.011*	*+0.52*	*+0.59*	*0*	---	*3*
	20	*R.*	*WI*	*+0.020*	*+0.07*	*+0.04*	*0*	---	--
	21	*Hd.*	*WI*	*−0.035*	*+0.10*	*+0.15*	*0*	---	*2*
	24	*R.*	*EI*	*+0.053*	*−0.89*	*−0.87*	*0*	---	--
1914									
Jan.	28	Fn.	WI	−0.004		+0.02	I	3.9	3
	29	Wy.	WI	+0.023		+0.03	0	---	4
	31	Fn.	WI	+0.014		−0.60	I	4.4	3
Feb.	2	Hd.	WI	+0.053		−0.15	0	---	3½
	7	Wy.	EI	−0.021		−0.23	I	4.4	3½
	9	Hd.	EI	−0.013		----	I	3.9	2
	17	Fn.	WI	+0.009		−0.33	I	3.9	3½
	21	Wy.	WI	−0.014		−1.34	0	4.0	2½
Mar.	7	Wy.	EI	−0.001		−0.18	I	3.4	2
	12	Hd.	WI	+0.007		+0.09	I	4.4	2
	14	Wy.	WI	−0.002		−0.32	0	---	3½
Apr.	22	Fn.	EI	−0.023		+0.08	0	---	2½
	27	Wy.	EI	−0.006		+0.06	I	4.4	3
	28	Hd.	EI	−0.011		−0.18	I	3.4	2
May	6	Fn.	WI	+0.015		+0.24	0	---	2½
	11	Hd.	WI	+0.018		+0.36	I	3.4	2½
	15	Wy.	WI	+0.013		−0.16	I	---	3
	16	Fn.	WI	−0.001		+0.17	0	4.5	2
	23	Hd.	EI	−0.005		+0.66	I	3.9	2½
Nov.	*13*	*An.*	*WI*	-----	*−0.13*	*−0.06*	*0*	---	*3½*
	16	*Wy.*	*EI*	*+0.082*	*+0.14*	*+0.25*	*0*	---	*3*
	20	*Fn.*	*EI*	*−0.026*	----	----	*0*	---	*3*
	23	*Hd.*	*EI*	*−0.053*	*−0.42*	*−0.31*	*0*	---	*3*
1915									
Apr.	15	Hd.	WI	+0.004		−0.32	I	3.9	2
	17	An.	WI	+0.018		----	I	---	3
	30	Wy.	EI	+0.040		----	0	---	3
May	2	Hd.	EI	+0.013		----	0	---	2½
	5	Hd.	EI	−0.022		+0.47	I	3.9	3
	6	Fn.	EI	−0.003		+0.21	I	3.9	3
	8	Hd.	EI	+0.025		+0.80	I	---	3
	19	Fn.	EI	−0.004		+0.91	I	3.4	2½
	23	Wy.	WI	−0.013		−0.29	I	---	3
	25	Fn.	WI	−0.002		+0.87	0	---	2½
	27	Wy.	WI	−0.020		+1.06	I	---	2
Nov.	*17*	*Hd.*	*WI*	-----	*−0.62*	*−0.59*	*0*	---	*3*
1916									
Feb.	3	Fn.	EI	+0.019		−0.22	I	4.4	3
	7	Fn.	EI	−0.034		+0.37	I	3.9	2½
	22	Fn.	WI	-----		+0.38	0	---	2½
Mar.	10	Fn.	WI	−0.017		+0.08	I	4.4	3
Mean		1913.77		−0.001		+0.06			
		1913.77							
Corr				−0.081		−0.18			

c Virginis

				h	m	s	°	′	″			
1912												
Apr.	9	Hd.	WII	12	15	46.685	+3	48	49.08	0	5.2	3½
	19	Hd.	EII			46.712			49.65	I	4.4	3
	20	Fn.	WII			46.711			49.18	0	5.4	2
May	1	R.	EII			46.683			49.34	0	5.5	2
1915												
May	10	Hd.	EI			46.646			49.59	I	4.9	2
	14	Fn.	WI			46.621			49.76	0	---	2½
	15	Wy.	WI			46.641			49.45	I	5.4	3
	17	Hd.	EI			46.650			49.61	0	6.0	3
Mean		1913.83		12	15	46.669	+3	48	49.46			
Corr						−0.081			−0.19			

Bradley 1655

				h	m	s	°	′	″			
1913												
Jan.	18	R.	EII	12	16	29.487	+58	21	55.15	0	6.5	2
	21	R.	EII			29.478			55.32	0	6.0	2½
Feb.	4	R.	WII			29.487			54.91	0	---	--
	8	R.	WII			29.460			55.39	0	---	--
1914												
Feb.	26	Hd.	EI			29.477			54.29	0	---	3
	27	Fn.	EI			29.560			54.72	0	5.5	1½
Mar.	3	Fn.	WI			29.553			54.94	0	6.0	3
	4	Wy.	WI			29.544			55.38	0	6.0	2
Mean		1913.62		12	16	29.506	+58	21	55.01			
Corr						−0.081			−0.31			

Bradley 1662

				h	m	s	°	′	″			
1912												
Mar.	13	Fn.	EII	12	19	39.368	+52	3	39.22	0	5.0	2
	16	Fn.	EII			39.285			38.96	0	5.0	2
	25	Fn.	WII			39.342			38.86	0	5.2	1½
	26	Hd.	WII			39.388			39.55	0	5.5	3½
1915												
Mar.	30	Wy.	EI			39.380			38.98	0	---	2½
Apr.	6	Wy.	EI			39.345			39.11	I	4.9	2½
	13	Fn.	WI			39.314			39.21	0	5.0	2½
	14	An.	WI			39.354			38.69	I	4.9	2½
Mean		1913.74		12	19	39.347	+52	3	39.07			
Corr						−0.081			−0.29			

Lacaille 5144

				h	m	s	°	′	″			
1912												
May	2	Fn.	EII	12	20	[35.706]	−27	14	60.52	0	---	4
	3	Hd.	EII			35.521			61.19	0	---	3
	4	R.	WII			35.521			60.75	0	7.5	3½
	9	Fn.	WII			35.528			61.27	0	---	3½
1915												
May	14	Fn.	WI			35.537			59.58	0	---	3
1916												
Jan.	3	Wy.	EI			35.467			61.46	0	6.5	3½
	7	Wy.	EI			35.553			60.36	0	6.5	3½
Feb.	9	Hd.	WI			35.590			61.86	0	7.5	3
	15	Hd.	WI			35.546			62.46	0	6.5	3
Mean		1914.58		12	20	35.533	−27	15	1.05			
		1914.33										
Corr						−0.081			−0.01			

Groombridge 1888

				h	m	s	°	′	″			
1913												
Jan.	25	R.	EII	12	20	54.70	+64	18	4.45	0	6.5	3½
	27	Fn.	EII			54.69			4.77	0	6.3	1½
Feb.	15	R.	WII			54.67			4.72	0	6.5	2
Mar.	20	R.	WII			54.70			4.67	0	6.0	--
1914												
Feb.	2	Hd.	WI			54.84			4.82	0	---	3
	3	Fn.	EI			54.75			4.48	0	6.5	3
	9	Hd.	EI			54.73			4.89	0	6.0	3
	17	Fn.	WI			54.82			4.99	0	6.0	3
Mean		1913.62		12	20	54.738	+64	18	4.72			
Corr						−0.081			−0.33			

B. D. +39° 2520

				h	m	s	°	′	″			
1917												
Apr.	9	Hd.	WI	12	20	-----	+38	50	48.73	0	7.5	2
	10	Fn.	WI			-----			47.59	0	7.5	2½
	19	Fn.	EI			-----			49.27	0	7.5	3
May	1	Fn.	EI			-----			48.48	0	7.5	3½
Mean		1917.29		12	20	-----	+38	50	48.52			
Corr						-----			−0.27			

6 Canum Venaticorum

				h	m	s	°	′	″			
1912												
Mar.	17	R.	EII	12	21	25.093	+39	31	4.52	0	---	5
	18	Fn.	EII			25.081			4.27	0	5.2	2
Apr.	3	R.	WII			25.053			4.16	0	5.5	1
	8	Fn.	WII			25.077			4.54	0	5.1	1½

			h	m	s	°	′	″			
1915											
Apr. 15	Hd.	WI			25.005			4.50	I	4.9	2
17	An.	WI			25.018			3.34	I	5.4	2
May 5	Hd.	EI			25.063			3.75	I	4.9	2
6	Fn.	EI			25.134			3.96	0	5.5	2
Mean	1913.78		12	21	25.066	+39	31	4.13			
Corr					−0.081			−0.27			

15 Comæ

			h	m	s	°	′	″			
1912											
Apr. 9	Hd.	WII	12	22	27.265	+28	46	6.63	I	3.9	3
10	R.	WII			27.288			6.36	I	4.4	1½
11	Fn.	EII			27.281			7.05	I	---	3½
16	Hd.	EII			27.210			6.35	0	---	2
1915											
Mar. 29	Fn.	EI			27.243			----	0	---	3½
May 17	Hd.	EI			27.251			----	I	4.4	2½
19	Fn.	EI			27.227			6.95	I	3.9	2
21	Wy.	WI			27.245			----	I	3.9	2½
27	Wy.	WI			27.222			----	I	---	2
1916											
Jan. 8	Fn.	EI			27.253			6.81	0	5.0	2½
14	Hd.	EI			27.263			6.93	I	3.9	2
Feb. 29	Hd.	WI			27.187			6.67	I	4.4	2
Mar. 3	Hd.	WI			27.209			5.97	I	4.4	2½
June 2	Hd.	EI			27.198			----	0	---	2
5	*Hd.*	*EI*			*27.202*			----	*I*	---	*2½*
8	*Hd.*	*EI*			*27.216*			----	*0*	---	*3*
12	*Wy.*	*EI*			*27.206*			----	*0*	---	*3*
20	*Hd.*	*WI*			*27.260*			----	*0*	---	*2*
1917											
Apr. 13	Fn.	WI			27.296			----	0	5.0	2
Mean	1914.93		12	22	27.243	+28	46	6.64			
	1914.32										
Corr					−0.081			−0.25			

Weisse$_2$ XII 419

			h	m	s	°	′	″			
1913											
Jan. 18	R.	EII	12	23	1.061	+18	19	58.42	0	7.5	2
21	R.	EII			1.031			59.62	0	7.5	1½
Feb. 13	R.	WII			1.066			59.09	0	---	2
15	R.	WII			1.053			57.97	0	7.5	2
1914											
Jan. 29	Wy.	WI			1.044			58.73	0	7.5	3½
31	Fn.	WI			1.064			59.41	0	7.5	3
Feb. 7	Wy.	EI			1.017			58.22	0	7.5	3
26	Hd.	EI			1.019			58.60	0	---	3
Mean	1913.60		12	23	1.044	+18	19	58.76			
Corr					−0.081			−0.23			

Groombridge 1894

			h	m	s	°	′	″			
1913											
Mar. 5	Fn.	EII	12	23	8.440	+41	51	11.65	0	6.8	1½
11	R.	EII			8.424			12.51	0	---	2½
17	Fn.	WII			8.378			11.68	0	6.8	3
21	Fn.	WII			8.461			12.34	0	---	3½
1914											
Mar. 3	Fn.	WI			8.439			11.51	0	7.0	3
4	Wy.	WI			8.373			12.00	0	6.0	2
7	Wy.	EI			8.413			11.74	0	6.0	2
Apr. 13	Fn.	EI			8.435			12.37	0	6.0	2
Mean	1913.70		12	23	8.420	+41	51	11.98			
Corr					−0.081			−0.27			

Bradley 1673

			h	m	s	°	′	″			
1912											
Apr. 19	Hd.	EII	12	24	25.086	+26	24	39.59	0	5.8	2
20	Fn.	WII			25.140			39.17	0	5.8	2
23	Hd.	WII			25.151			39.19	0	5.8	2
May 1	R.	EII			25.128			39.41	0	5.5	1
1915											
Apr. 13	Fn.	WI			25.112			39.83	0	6.0	2½
14	An.	WI			25.104			39.21	I	5.4	2
May 6	Fn.	EI			25.118			39.35	0	5.0	2
8	Hd.	EI			25.090			39.34	0	5.5	3
Mean	1913.81		12	24	25.116	+26	24	39.39			
Corr					−0.081			−0.24			

20 Comæ

			h	m	s	°	′	″			
			12	25	12.102	+21	23	39.76			
1913											
Mar. 30	R.	EII			−0.033			−0.16	0	6.0	2½
31	Fn.	EII			−0.048			+0.32	0	5.7	2
Apr. 8	Hd.	WII			−0.048			−0.10	0	6.2	3
16	Hd.	WII			−0.067			+0.08	0	6.0	2½
1914											
Mar. 12	Hd.	WI			−0.064			+0.57	0	6.0	2
13	Fn.	WI			−0.046			+0.06	0	6.0	1½
22	Wy.	EI			−0.066			+0.10	0	6.0	2½
Apr. 17	Wy.	EI			−0.056			−0.20	0	5.2	2
Mean	1913.74				−0.054			+0.08			
Corr					−0.081			−0.23			

δ Corvi

			h	m	s	°	′	″				
			12	25	12.304	−16	0	52.62				
1912												
May 2	Fn.	EII			−0.008			+0.19	I	2.6	3	
3	Hd.	EII			+0.020			+0.16	I	---	2	
4	R.	WII			+0.004			+0.66	I	---	3½	
9	Fn.	WII			−0.024			+0.81	I	2.7	3½	
1915												
May 10	Hd.	EI			−0.035			+0.04	I	3.4	3	
14	Fn.	WI			+0.001			+0.40	0	---	3	
15	Wy.	WI			+0.014			−0.32	I	3.9	3	
17	Hd.	EI			+0.003			+0.06	I	3.4	3½	
1916												
Apr. 15	Hd.–Fn.	EI			-----			−2.46	I	---	2	R.
18	Hd.–Fn.	EI			-----			−0.44	I	3.4	3	
19	Hd.–Fn.	WI			-----			−0.70	0	---	3	
20	Hd.–Wy.	WI			-----			−1.16	I	---	3	R.
Mean	1913.86				−0.003			+0.09				
	1914.34											
Corr					−0.081			−0.11				

Piazzi XII 105

			h	m	s	°	′	″			
1913											
Apr. 1	Hd.	EII	12	25	34.723	−23	11	57.04	0	6.0	4
17	R.	WII			34.671			57.08	0	6.0	2
21	Hd.	EII			34.709			55.90	0	5.8	3
1914											
Mar. 14	Wy.	WI			34.674			57.65	0	7.0	4½
Apr. 23	Wy.	EI			34.688			56.64	0	6.0	3
26	Hd.	EI			34.729			55.86	0	6.0	4
30	Wy.	WI			34.660			55.79	0	---	3
May 2	Fn.	WI			34.652			57.59	0	6.0	3
Mean	1913.92		12	25	34.688	−23	11	56.69			
Corr					−0.081			−0.05			

74 Ursæ Majoris

			h	m	s	°	′	″			
1912											
Mar. 16	Fn.	EII	12	25	45.339	+58	54	3.60	0	5.4	2½
17	R.	EII			45.352			3.34	0	---	5
25	Fn.	WII			45.428			3.77	0	5.4	1½
26	Hd.	WII			45.435			3.70	0	5.5	3½
1916											
Jan. 3	Wy.	EI			45.409			3.57	0	5.5	2½
7	Wy.	EI			45.375			3.46	0	6.0	2½
Feb. 9	Hd.	WI			45.272			4.36	0	6.0	3
15	Hd.	WI			45.271			4.49	0	6.0	2
Mean	1914.14		12	25	45.360	+58	54	3.79			
Corr					−0.081			−0.32			

Piazzi XII 108

				h	m	s	°	′	″			
1912												
May	10	Hd.	WII	12	26	13.075	−3	33	49.82	0	7.0	1
	13	Fn.	WII			13.068			48.70	0	6.9	3
	18	Hd.	EII			13.079			49.13	0	6.5	2
	20	Fn.	EII			13.094			49.61	0	7.2	3½
1915												
Apr.	6	Wy.	EI			13.073			49.49	0	6.5	3
	7	An.	EI			13.041			48.88	0	6.5	3
	15	Hd.	WI			13.102			49.53	0	6.5	2½
	17	An.	WI			13.096			49.77	0	7.0	3½
Mean		1913.82		12	26	13.078	−3	33	49.37			
Corr						−0.081			−0.16			

Weisse$_1$ XII 398

				h	m	s	°	′	″			
1913												
Jan.	25	R.	EII	12	26	46.991	+8	6	3.88	0	6.0	3½
Feb.	25	R.	EII			47.064			4.30	0	5.5	2
Mar.	20	R.	WII			47.057			3.70	0	6.0	2½
	21	Fn.	WII			47.068			4.29	0	6.5	3½
1914												
Feb.	17	Fn.	WI			47.008			4.73	0	6.0	3
	21	Wy.	WI			47.023			3.51	0	6.5	2
	27	Fn.	EI			47.069			4.16	0	6.0	2
Apr.	13	Fn.	EI			47.076			4.17	0	6.0	2
Mean		1913.67		12	26	47.044	+8	6	4.09			
Corr						−0.081			−0.20			

Bradley 1682

				h	m	s	°	′	″			
1912												
Mar.	18	Fn.	EII	12	28	29.600	+10	47	31.38	0	6.6	2
Apr.	3	R.	WII			29.584			32.18	0	7.0	1½
	8	Fn.	WII			29.564			31.84	0	6.5	2
	11	Fn.	EII			29.631			31.51	0	7.3	2½
1915												
Apr.	8	Hd.	EI			29.667			31.29	0	6.0	3
	13	Fn.	WI			29.574			31.73	0	6.0	2½
	14	An.	WI			29.598			31.90	0	7.0	2½
May	5	Hd.	EI			29.572			31.78	0	6.0	2½
Mean		1913.77		12	28	29.599	+10	47	31.70			
Corr						−0.081			−0.21			

Pulkowa 1855, 1886

				h	m	s	°	′	″			
1913												
Jan.	18	R.	EII	12	28	54.107	−12	20	5.83	0	6.0	2
	21	R.	EII			54.128			5.30	0	---	3½
Feb.	13	R.	WII			54.147			6.13	0	6.5	2½
	15	R.	WII			54.143			6.20	0	5.5	3
1914												
Jan.	27	R.	WI			54.093			----	0	---	---
	28	Fn.	WI			54.086			5.81	0	6.0	3½
	29	Wy.	WI			54.182			6.83	0	6.3	4
Feb.	3	Fn.	EI			54.112			6.12	0	6.5	3½
	26	Hd.	EI			54.095			6.40	0	6.0	3½
Mean		1913.65		12	28	54.121	−12	20	6.08			
		1913.60										
Corr						−0.081			−0.13			

Groombridge 1904

				h	m	s	°	′	″			
1912												
Apr.	9	Hd.	WII	12	29	6.767	+38	33	57.22	0	6.5	---
	10	R.	WII			6.772			56.43	0	7.0	1½
	19	Hd.	EII			6.708			56.21	0	7.0	2
May	1	R.	EII			6.690			56.70	0	7.0	1½
1915												
May	19	Fn.	EI			6.686			57.66	0	6.0	2
1916												
Jan.	8	Fn.	EI			6.782			56.82	0	7.0	2½
	14	Hd.	EI			6.769			56.66	0	6.5	2
Feb.	29	Hd.	WI			6.638			57.08	0	6.5	2
Mar.	3	Hd.	WI			6.677			56.90	0	6.5	2
Mean		1914.33		12	29	6.721	+38	33	56.85			
Corr						−0.081			−0.27			

8 Canum Venaticorum

				h	m	s	°	′	″			
				12	29	28.047	+41	50	48.03			
						s			″			
1913												
Mar.	5	Fn.	EII			−0.013			+0.03	0	5.0	1½
	11	R.	EII			−0.045			+0.64	I	4.4	2½
	17	Fn.	WII			−0.138			+0.37	0	5.0	2½
	18	R.	WII			−0.065			+0.06	I	2.9	2½
1914												
Jan.	31	Fn.	WI			−0.043			+0.68	0	5.0	2
Feb.	2	Hd.	WI			+0.001			+0.52	I	4.4	3
	7	Wy.	EI			+0.046			−0.11	0	4.5	3
	9	Hd.	EI			−0.094			−0.05	I	4.4	2
1915												
Mar.	29	Fn.	EI			−0.049			----	0	---	3½
Apr.	19	Fn.	WI			−0.073			----	0	---	2½
May	17	Hd.	EI			−0.064			----	0	---	2½
	21	Wy.	WI			−0.055			----	I	4.4	3
1916												
Mar.	10	Fn.	WI			−0.100			----	0	4.5	2
June	2	Hd.	EI			−0.119			----	I	4.4	2
	5	*Hd.*	*EI*			*−0.105*	----		----	*I*	---	*2*
	8	*Hd.*	*EI*			*−0.131*	----		----	*0*	---	*3*
	12	*Wy.*	*EI*			*−0.073*	*+0.10*		*+0.10*	*0*	---	*3*
	20	*Hd.*	*WI*			*−0.084*	----		----	*0*	---	*2*
1917												
June	*19*	*Fn.*	*WII*			*−0.088*	----		----	*0*	---	*2½*
	22	*Fn.*	*WII*			*−0.069*	----		----	*0*	---	*3*
1918												
May	6	Fn.	EII			−0.054			----	D	5.5	2
Mean		1914.76				−0.058			+0.27			
		1913.65										
Corr						−0.081			−0.27			

κ Draconis

				h	m	s	°	′	″				
				12	29	38.833	+70	17	3.36				
1912													
May	13	Fn.	WII			+0.08			+0.13	0	---	3½	
	16	Fn.	WII			−0.09			+0.06	I	3.4	3	
	18	Hd.	EII			−0.04			−0.03	I	3.1	2	
	19	R.	EII			−0.05			+0.33	I	---	4	
1915													
May	10	Hd.	EI			−0.09			+0.65	I	4.4	2½	
	11	Fn.	EI			−0.07			+0.58	0	---	2	
	14	Fn.	WI			+0.07			+0.48	0	---	2½	
	15	Wy.	WI			+0.06			+0.21	I	3.9	3	
1916													
Apr.	15	Hd.–Fn.	EI			----			−0.21	I	3.9	2	
	18	Hd.–Fn.	EI			----			−0.01	I	---	2	R.
	19	Hd.–Fn.	WI			----			+0.68	I	---	3	R.
	20	Hd.–Wy.	WI			----			−0.08	I	4.4	2½	
Mean		1913.87				−0.016			+0.21				
		1914.35											
Corr						−0.081			−0.34				

κ Draconis s. p.

				h	m	s	°	′	″			
				12	29	38.838	+70	17	3.35			
1911												
Oct.	23	R.	WII			−0.05			−0.75	I	3.9	4
	24	Fn.	WII			0.00			+0.28	I	4.7	3½
Nov.	7	R.	EII			−0.06			−1.43	I	3.4	4
	10	Hd.	EII			0.00			−0.90	0	---	4
1914												
Nov.	9	Hd.	WI			+0.09			−0.34	I	3.9	3½
	10	Fn.	WI			+0.12			−1.20	0	---	4
	19	Hd.	EI			+0.03			−0.08	I	3.4	3½
	21	Fn.	EI			−0.11			+0.54	0	---	4½
Mean		1913.35				+0.002			−0.48			
Corr						−0.081			+0.60			

β Corvi

			h m s	° ′ ″			
			12 29 39.386	−22 53 57.07			
1913							
Apr. 1	Hd.	EII	+0.095	−0.23	I	2.9	4
2	Fn.	EII	+0.088	−0.37	0	---	4
6	R.	WII	+0.128	−0.79	I	2.9	2½
7	Fn.	WII	+0.130	−1.04	I	2.5	3
1914							
Mar. 4	Wy.	WI	+0.105	−1.42	I	3.4	3
7	Wy.	EI	+0.104	−1.23	0	3.5	3
12	Hd.	WI	+0.062	−0.08	I	3.4	3
Apr. 21	Hd.	EI	+0.059	+0.18	I	3.4	2½
Mean	1913.73		+0.096	−0.62			
Corr			−0.081	−0.05			

24 Comæ *seq.*

			h m s	° ′ ″			
			12 30 36.953	+18 52 20.52			
1912							
Apr. 23	Hd.	WII	+0.048	+0.69	0	5.5	3
May 2	Fn.	EII	+0.051	+0.34	0	5.5	2
3	Hd.	EII	−0.017	+0.62	0	---	2
4	R.	WII	+0.029	+0.09	0	5.5	2½
1915							
Apr. 17	An.	WI	+0.049	+0.20	I	5.4	3
24	An.	WI	+0.041	+0.28	I	5.4	2
May 6	Fn.	EI	+0.033	−0.11	0	5.0	2
8	Hd.	EI	+0.051	+0.73	I	4.9	3
Mean	1913.83		+0.036	+0.36			
Corr			−0.081	−0.23			

Radcliffe 1845, 2887

			h m s	° ′ ″			
1913							
Mar. 30	R.	EII	12 31 34.838	+46 16 33.84	0	7.5	3
31	Fn.	EII	34.858	34.09	0	7.0	--
Apr. 8	Hd.	WII	34.818	34.93	0	7.5	3
16	Hd.	WII	34.828	34.43	0	7.0	2
1914							
Feb. 17	Fn.	WI	34.842	35.00	0	7.0	3
27	Fn.	EI	34.878	34.73	0	7.0	2
Mar. 3	Fn.	WI	34.872	34.86	0	7.0	3
22	Wy.	EI	34.890	34.27	0	7.0	2½
Mean	1913.72		12 31 34.853	+46 16 34.52			
Corr			−0.081	−0.28			

f Virginis

			h m s	° ′ ″			
1913							
Jan. 25	R.	EII	12 32 9.161	−5 20 9.39	0	---	5
Feb. 25	R.	EII	9.194	9.40	0	6.0	3
Mar. 20	R.	WII	9.172	10.43	0	5.5	3
22	R.	WII	9.182	9.37	0	6.0	2
1914							
Mar. 14	Wy.	WI	9.171	9.57	0	7.0	4
Apr. 13	Fn.	EI	9.172	8.98	0	5.5	2
17	Wy.	EI	9.214	9.28	0	6.0	2½
30	Wy.	WI	9.121	9.59	0	7.0	3
Mean	1913.72		12 32 9.173	−5 20 9.50			
Corr			−0.081	−0.16			

Piazzi XII 142

			h m s	° ′ ″			
1912							
Mar. 17	R.	EII	12 33 46.995	+2 20 59.50	0	---	5
18	Fn.	EII	46.997	60.18	0	6.1	2
25	Fn.	WII	46.977	60.53	0	5.8	2
26	Hd.	WII	46.987	60.26	0	---	3
1915							
Mar. 30	Wy.	EI	47.016	60.29	0	---	3
Apr. 6	Wy.	EI	46.980	60.46	0	6.0	3
13	Fn.	WI	46.956	58.27	0	6.0	3½
14	An.	WI	46.967	60.19	I	5.4	2½
Mean	1913.74		12 33 46.984	+2 20 59.96			
Corr			−0.081	−0.18			

Lalande 23617

			h m s	° ′ ″			
1913							
Jan. 18	R.	EII	12 34 2.551	−17 45 21.45	0	7.0	2½
21	R.	EII	2.601	20.77	0	7.0	4
Feb. 13	R.	WII	2.577	21.37	0	6.5	2½
15	R.	WII	2.613	22.34	0	6.0	4
1914							
Mar. 12	Hd.	WI	2.566	21.74	0	6.5	3½
13	Fn.	WI	2.580	21.45	0	6.5	2½
Apr. 21	Hd.	EI	2.552	21.15	0	---	2½
23	Wy.	EI	2.616	21.63	0	6.0	3
Mean	1913.67		12 34 2.582	−17 45 21.49			
Corr			−0.081	−0.09			

9 Canum Venaticorum

			h m s	° ′ ″			
1915							
Mar. 29	Fn.	EI	12 34 26.562	+41 22 -----	0	---	3½
May 17	Hd.	EI	26.633	-----	0	6.5	2
21	Wy.	WI	26.563	-----	0	6.5	2½
1917							
Apr. 13	Fn.	WI	26.554	-----	0	6.5	2
May 22	Fn.	WI	26.564	-----	0	---	3
Mean	1916.13		12 34 26.575	+41 22 -----			
Corr			−0.081	-----			

χ Virginis

			h m s	° ′ ″			
			12 34 35.960	−7 30 1.53			
1912							
Apr. 3	R.	WII	+0.022	+0.56	0	5.5	3
8	Fn.	WII	+0.009	−0.24	0	5.1	2
11	Fn.	EII	+0.057	+0.09	0	5.2	3
16	Hd.	EII	+0.064	−0.27	0	---	2
1915							
Apr. 7	An.	EI	+0.041	+0.02	I	4.9	3
8	Hd.	EI	+0.029	0.00	I	4.4	2
15	Hd.	WI	+0.054	+0.02	I	4.4	2
17	An.	WI	+0.076	−0.41	I	5.4	2½
Mean	1913.78		+0.044	−0.03			
Corr			−0.081	−0.15			

Bradley 1695

			h m s	° ′ ″			
1913							
Mar. 5	Fn.	EII	12 34 38.727	+21 33 26.40	0	6.5	1½
11	R.	EII	38.727	26.59	0	5.5	3
21	Fn.	WII	38.704	26.16	0	6.5	3½
22	R.	WII	38.702	26.16	0	5.5	2
1914							
Jan. 28	Fn.	WI	38.722	25.87	0	6.0	2
29	Wy.	WI	38.743	26.69	0	6.0	3½
Feb. 9	Hd.	EI	38.691	26.44	0	6.0	2
26	Hd.	EI	38.709	26.37	0	6.5	3
Mean	1913.66		12 34 38.716	+21 33 26.34			
Corr			−0.081	−0.23			

γ Virginis *mean*

			h m s	° ′ ″			
			12 37 5.852	−0 57 21.16			
1912							
May 10	Hd.	WII	−0.065	−0.69	I	2.9	2
13	Fn.	WII	−0.045	−0.31	0	---	3
24	Hd.	EII	−0.057	−0.22	0	---	3
25	R.	EII	+0.004	−0.09	I	---	2
1915							
May 19	Fn.	EI	−0.078	+0.40	I	1.9	2
1916							
Jan. 3	Wy.	EI	−0.015	−1.04	I	3.4	3
7	Wy.	EI	−0.066	−0.29	I	3.4	3
Feb. 9	Hd.	WI	−0.043	−0.63	0	---	3
15	Hd.	WI	−0.047	+0.15	I	---	2
Mean	1914.35		−0.046	−0.30			
Corr			−0.081	−0.18			

ρ Virginis

				h m s	° ′ ″			
				12 37 19.810	+10 43 52.68			
1913								
Mar. 28	Fn.	EII		−0.007	+0.22	0	5.0	2
29	R.	EII		−0.022	+0.18	0	5.5	2½
Apr. 6	R.	WII		+0.003	+0.54	I	4.9	2
7	Fn.	WII		−0.042	+0.32	0	5.4	2
1914								
Feb. 2	Hd.	WI		+0.028	+0.17	0	---	3
3	Fn.	EI		−0.018	+0.68	0	5.0	3
7	Wy.	EI		−0.014	+0.29	0	5.0	3
17	Fn.	WI		−0.019	+1.13	0	5.0	3½
21	Wy.	WI		−0.070	−0.16	0	5.0	2
Mean	1913.73			−0.018	+0.37			
Corr				−0.081	−0.21			

76 Ursæ Majoris

				h m s	° ′ ″			
				12 37 38.205	+63 12 25.36			
1913								
Jan. 25	R.	EII		−0.05	+0.29	0	6.0	3½
Feb. 4	R.	WII		−0.03	−0.14	0	6.5	3½
25	R.	EII		+0.05	+0.68	0	6.0	1½
Mar. 17	Fn.	WII		−0.07	−0.38	0	6.4	3½
18	R.	WII		0.00	+0.26	0	5.5	2½
1914								
Feb. 27	Fn.	EI		+0.04	+0.01	0	6.0	1½
Mar. 3	Fn.	WI		+0.06	+0.04	0	6.0	3
4	Wy.	WI		+0.08	0.00	0	6.5	2
7	Wy.	EI		−0.03	+0.21	0	6.0	2
1916								
Apr. 15	Hd.–Fn.	EI		----	+0.86	0	6.0	2
18	Hd.–Fn.	EI		----	−0.01	0	---	2 R.
19	Hd.–Fn.	WI		----	+0.31	0	---	3 R.
20	Hd.–Wy.	WI		----	+0.35	0	6.0	2½
Mean	1913.60			+0.006	+0.20			
	1914.09							
Corr				−0.081	−0.33			

Lalande 23711

				h m s	° ′ ″			
1912								
May 18	Hd.	EII		12 37 56.729	+34 11 3.65	0	7.0	2
19	R.	EII		56.764	----	0	---	3½
20	Fn.	EII		56.722	4.16	0	7.1	2½
21	Hd.	WII		56.779	4.48	0	6.2	3
28	Hd.	WII		56.838	4.63	0	7.0	2
1915								
Apr. 24	An.	WI		56.718	4.44	0	7.0	2
May 6	Fn.	EI		56.734	4.05	0	6.5	3
14	Fn.	WI		56.719	4.47	0	---	2
17	Hd.	EI		56.747	4.09	0	7.0	3
Mean	1913.70			12 37 56.750	+34 11 4.25			
	1913.87							
Corr				−0.081	−0.26			

330 G. Hydræ

				h m s	° ′ ″			
1913								
Jan. 18	R.	EII		12 39 12.528	−27 49 47.83	0	6.0	3
21	R.	EII		12.552	48.04	0	6.5	3½
Feb. 13	R.	WII		12.593	48.85	0	6.5	2½
15	R.	WII		12.578	49.30	0	6.0	4
1914								
Mar. 12	Hd.	WI		12.581	48.24	0	6.5	3½
13	Fn.	WI		12.568	50.00	0	6.5	2½
22	Wy.	EI		12.553	48.86	0	6.0	3½
Apr. 13	Fn.	EI		12.581	48.40	0	6.0	3
Mean	1913.66			12 39 12.567	−27 49 48.69			
Corr				−0.081	0.00			

B. D.−2° 3567

				h m s	° ′ ″			
1912								
Apr. 9	Hd.	WII		12 39 34.023	−2 20 58.95	0	7.2	3
10	R.	WII		34.025	58.32	0	7.5	2½
11	Fn.	EII		34.019	58.34	0	6.6	3
19	Hd.	EII		34.012	58.44	0	6.5	3
1915								
Apr. 8	Hd.	EI		34.009	58.28	0	6.5	2½
13	Fn.	WI		33.999	58.79	0	6.5	3
14	An.	WI		34.034	58.66	0	7.0	3
May 10	Hd.	EI		33.995	58.01	0	7.0	2
Mean	1913.79			12 39 34.014	−2 20 58.47			
Corr				−0.081	−0.17			

d^2 Virginis

				h m s	° ′ ″			
1913								
Mar. 30	R.	EII		12 41 4.227	+8 9 54.37	0	6.0	3½
31	Fn.	EII		4.240	55.39	0	5.7	2
Apr. 6	R.	WII		4.213	55.69	0	5.5	2½
8	Hd.	WII		4.262	55.49	0	5.8	3
1914								
Jan. 28	Fn.	WI		4.257	55.74	0	6.0	2
29	Wy.	WI		4.299	55.07	0	6.0	4
31	Fn.	WI		4.245	55.39	0	5.5	3
Feb. 9	Hd.	EI		4.206	54.81	0	6.0	3
26	Hd.	EI		4.219	55.69	0	6.0	3
Mean	1913.73			12 41 4.241	+8 9 55.29			
Corr				−0.081	−0.20			

Groombridge 1927

				h m s	° ′ ″			
1913								
Mar. 5	Fn.	EII		12 42 8.74	+81 6 51.32	0	7.2	3
11	R.	EII		8.92	51.09	0	7.0	2
18	R.	WII		8.73	51.13	0	6.0	2½
21	Fn.	WII		9.06	51.75	0	6.7	3½
1914								
Apr. 9	Fn.	WI		8.85	51.46	0	6.0	2
17	Wy.	EI		8.59	52.25	0	6.0	2½
21	Hd.	EI		8.94	52.13	0	7.0	2
30	Wy.	WI		8.98	50.54	0	---	3
Mean	1913.75			12 42 8.851	+81 6 51.46			
Corr				−0.081	−0.37			

Groombridge 1927 S. P.

				h m s	° ′ ″			
1911								
Sept. 20	R.	WII		12 42 8.69	+81 6 50.64	0	6.5	1½
30	R.	EII		8.68	50.89	0	6.5	1½
Oct. 4	Fn.	EII		9.00	50.13	0	---	--
11	Hd.	WII		8.73	50.51	0	6.5	3
1915								
Aug. 31	Wy.	WI		8.98	50.57	0	6.0	3
Sept. 1	Hd.	WI		8.49	50.31	0	---	4
15	Hd.	EI		8.86	50.54	0	6.5	3
22	Wy.	EI		8.73	49.99	0	6.5	3
Mean	1913.72			12 42 8.770	+81 6 50.45			
Corr				−0.081	+0.47			

Lalande 23844

				h m s	° ′ ″			
1912								
Apr. 3	R.	WII		12 43 6.442	−24 21 39.39	0	---	2½
8	Fn.	WII		6.490	40.80	0	6.7	3
19	Hd.	EII		6.462	41.51	0	7.0	3
27	R.	EII		6.533	40.62	0	---	5
1915								
May 10	Hd.	EI		6.419	39.45	0	7.0	2
14	Fn.	WI		6.450	41.03	0	---	3
15	Wy.	WI		6.475	40.52	0	7.5	3
17	Hd.	EI		6.471	39.52	0	7.5	3½
21	Wy.	WI		6.386	41.06	0	7.5	3½
Mean	1914.00			12 43 6.459	−24 21 40.43			
Corr				−0.081	−0.04			

35 Virginis

			h m s	° ′ ″			
1913							
Jan. 25	R.	EII	12 43 16.450	+4 3 50.42	0	6.5	2½
Feb. 13	R.	WII	16.464	50.34	0	6.5	2
15	R.	WII	16.482	49.79	0	6.5	3½
25	R.	EII	16.468	50.80	0	6.5	2
1914							
Feb. 2	Hd.	WI	16.467	50.41	0	---	3
7	Wy.	EI	16.441	50.23	0	7.0	3
21	Wy.	WI	16.426	49.99	0	6.5	2
27	Fn.	EI	16.465	50.32	0	6.0	2
Mar. 4	Wy.	WI	16.446	50.71	0	6.5	2
Mean------	1913.68		12 43 16.457	+4 3 50.33			
Corr------			−0.081	−0.19			

Lacaille 5285

			h m s	° ′ ″			
1912							
May 10	Hd.	WII	12 43 38.202	−27 6 17.03	0	6.2	3
13	Fn.	WII	38.235	18.22	0	5.7	3½
18	Hd.	EII	38.259	18.14	0	6.2	3
20	Fn.	EII	38.290	17.47	0	---	2½
1915							
Apr. 17	An.	WI	38.236	18.20	0	7.0	3½
24	An.	WI	38.276	17.33	0	6.0	3
May 6	Fn.	EI	38.238	17.87	0	6.5	3½
8	Hd.	EI	38.234	16.72	0	6.0	3
Mean------	1913.85		12 43 38.246	−27 6 17.62			
Corr------			−0.081	−0.01			

Bradley 1711

			h m s	° ′ ″			
1913							
Mar. 28	Fn.	EII	12 44 54.405	+28 2 32.81	0	6.0	2
29	R.	EII	54.398	32.79	0	5.5	2½
Apr. 16	Hd.	WII	54.396	32.54	0	6.0	2½
17	R.	WII	54.413	31.44	0	6.0	1½
1914							
Mar. 7	Wy.	EI	54.391	32.19	0	6.0	2½
13	Fn.	WI	54.419	32.84	0	6.0	1½
Apr. 6	Fn.	WI	54.436	31.93	0	6.0	2
13	Fn.	EI	54.408	32.47	0	6.0	2
Mean------	1913.75		12 44 54.408	+28 2 32.38			
Corr------			−0.081	−0.25			

p Centauri

			h m s	° ′ ″			
1912							
May 21	Hd.	WII	12 45 47.982	−33 30 31.76	0	5.8	4
25	R.	EII	47.990	30.85	0	5.5	5
26	Hd.	EII	47.921	32.70	0	5.5	3
28	Hd.	WII	47.992	31.39	0	5.5	3
1915							
Apr. 7	An.	EI	48.040	30.60	0	5.5	4½
8	Hd.	EI	47.980	31.48	0	6.0	3½
13	Fn.	WI	48.006	31.02	0	5.0	3½
14	An.	WI	47.991	30.78	0	---	3½
Mean------	1913.84		12 45 47.988	−33 30 31.32			
Corr------			−0.081	+0.10			

31 Comæ

			h m s	° ′ ″			
			12 47 18.930	+28 1 48.92			
1913			s	″			
Mar. 31	Fn.	EII	+0.056	+0.77	0	5.0	2
Apr. 1	Hd.	EII	+0.014	+0.16	0	5.5	3½
6	R.	WII	−0.005	−0.09	0	5.5	1½
7	Fn.	WII	−0.001	+0.96	0	5.0	2
1914							
Jan. 28	Fn.	WI	+0.063	----	0	5.0	2½
29	Wy.	WI	+0.063	+0.28	0	5.0	3½
31	Fn.	WI	+0.102	----	0	5.0	3
1914							
Feb. 3	Fn.	EI	+0.043	−0.26	0	5.0	3½
9	Hd.	EI	+0.016	+0.17	0	6.0	2
17	Fn.	WI	+0.037	+0.53	0	5.0	3
Mean------	1913.76		+0.039	+0.32			
	1913.68						
Corr------			−0.081	−0.25			

Bradley 1716

			h m s	° ′ ″			
1912							
Apr. 9	Hd.	WII	12 47 43.774	+17 33 47.90	0	6.2	3
10	R.	WII	43.777	47.90	0	7.0	1½
11	Fn.	EII	43.777	48.05	0	---	2
16	Hd.	EII	43.733	47.40	0	---	2
1915							
Mar. 30	Wy.	EI	43.734	47.33	0	---	3
Apr. 6	Wy.	EI	43.776	48.18	0	6.5	2½
15	Hd.	WI	43.751	47.54	0	6.5	2
17	An.	WI	43.772	47.56	0	6.0	2
Mean------	1913.78		12 47 43.762	+17 33 47.73			
Corr------			−0.081	−0.23			

32 H. Camelopardalis *pr.*

			h m s	° ′ ″			
1912							
Apr. 20	Fn.	WII	12 48 20.41	+83 54 26.28	0	---	2½
23	Hd.	WII	20.21	26.29	0	6.0	2
May 3	Hd.	EII	19.80	25.71	0	---	2
24	Hd.	EII	19.86	26.64	0	6.0	3
1915							
Apr. 19	Fn.	WI	19.46	26.18	0	6.5	3
24	An.	WI	20.09	26.15	0	6.5	2½
May 5	Hd.	EI	19.78	26.58	0	---	3
6	Fn.	EI	19.98	25.84	0	5.5	--
Mean------	1913.83		12 48 19.949	+83 54 26.21			
Corr------			−0.081	−0.39			

32 H. Camelopardalis *pr.* s. p.

			h m s	° ′ ″			
1912							
Nov. 9	Fn.	WII	12 48 19.77	+83 54 24.42	0	5.6	3½
11	R.	EII	19.79	25.23	0	6.5	4
12	R.	EII	19.77	26.31	0	---	3
16	Hd.	EII	19.91	25.04	0	6.0	3½
25	Fn.	WII	19.12	24.68	0	5.9	3½
1913							
Nov. 21	R.	WI	20.00	25.10	0	6.0	2½
22	Hd.	WI	20.11	25.42	0	6.0	4
Dec. 4	Fn.	EI	20.42	25.61	0	---	3½
5	Fn.	EI	20.06	26.09	0	---	3½
Mean------	1913.33		12 48 19.883	+83 54 25.32			
Corr------			−0.081	+0.45			

32 H. Camelopardalis *seq.*

			h m s	° ′ ″				
			12 48 27.285	+83 54 7.63				
1913			s	″	″			
Apr. 2	Fn.	EII	+0.38		+0.25	0	---	3
3	R.	EII	−0.26		+0.72	0	---	3
16	Hd.	WII	+0.38		+0.93	0	5.5	3
18	Fn.	WII	+0.15		+1.57	0	5.6	3
1914								
Feb. 2	Hd.	WI	−0.13		----	0	---	4½
26	Hd.	EI	−0.12		+1.15	0	6.5	3
27	Fn.	EI	−0.04		+0.53	0	5.0	2
Mar. 4	Wy.	WI	+0.26		+0.64	0	5.5	3
12	Hd.	WI	+0.16		+1.09	0	5.5	3
1916								
Apr. 15	Hd.–Fn.	EI	----		+0.57	0	---	2½ R.
18	Hd.–Fn.	EI	----		+0.35	0	5.5	3
19	Hd.–Fn.	WI	----		+1.27	0	---	3
20	Hd.–Wy.	WI	----		+0.35	0	---	3 R.
Dec. 6	*Fn.*	*EI*	*+0.09*	----	----	*0*	---	*3*

			s	″	″			
1916								
Dec. 7	*Hd.*	*EI*	*−0. 26*	*+0. 82*	*+0. 78*	*0*	*---*	*2*
13	*Fn.*	*EI*	*+0. 33*	*+0. 31*	*+0. 26*	*0*	*---*	*3*
17	*Fn.*	*EI*	*+0. 26*	*+0. 54*	*+0. 52*	*0*	*---*	*3*
25	Fn.	WI	−0. 11		+0. 67	0 5. 5		3
1917								
Dec. 26	Fn.	EII	+0. 06		−0. 05	0	---	3
Mean------	1914. 44		+0. 066		+0. 76			
	1914. 78							
Corr------			−0. 081		−0. 39			

32 H. Camelopardalis *seq.* s. p.

			h m s	° ′ ″			
			12 48 27. 267	+83 54 7. 64			
1911							
Oct. 12	R.	WII	−0. 23	−0. 95	0	5. 5	2½
13	Hd.	WII	−0. 01	−0. 59	0	5. 0	--
Nov. 10	Hd.	EII	+0. 01	−0. 54	0	5. 5	3
13	Fn.	EII	−0. 52	−1. 03	0	6. 6	3
1915							
Sept. 9	Wy.	WI	+0. 13	+0. 02	0	6. 0	3
16	Wy.	EI	−0. 26	−0. 05	0	5. 5	3
24	Hd.	EI	+0. 05	−0. 16	0	5. 5	3½
Oct. 9	Hd.	WI	−0. 32	+0. 27	0	6. 0	3
1916							
Dec. 7	Fn.	EI	−0. 05	−1. 41	0	---	3
12	Fn.	EI	+0. 16	−0. 87	0	6. 0	3
14	Fn.	EI	+0. 13	−0. 66	0	5. 5	2½
19	Hd.	WI	−0. 22	−0. 30	0	---	3
28	Fn.	WI	+0. 16	----	0	5. 5	3½
1917							
Dec. 6	Fn.	WII	−0. 14	−0. 92	0	5. 0	2
27	Fn.	EII	+0. 13	−0. 91	0	---	2½
Mean------	1915. 39		−0. 065	−0. 58			
	1915. 28						
Corr------			−0. 081	+0. 45			

n Centauri

			h m s	° ′ ″			
			12 48 -----	−39 41 22. 59			
1916							
June 1	Fn.	EI	-----	−0. 14	0	---	3
2	Hd.	EI	-----	+0. 66	0	---	3½
5	Hd.	EI	-----	+0. 19	0	---	3½
1917							
Apr. 9	Hd.	WI	-----	−0. 01	0	---	5
10	Fn.	WI	-----	−1. 29	0	---	3½
May 3	Hd.	EI	-----	−0. 11	0	---	4
14	Wy.	WI	-----	−0. 95	0	---	3½
Mean------	1916. 93		-----	−0. 24			
Corr------			-----	+0. 31			

Lalande 24021 [1]

			h m s	° ′ ″			
1913							
Jan. 25	R.	EII	12 49 15. 282	−17 32 57. 40	0	8. 0	3
Feb. 8	R.	WII	15. 238	57. 15	0	8. 0	2½
13	R.	WII	15. 270	58. 10	0	8. 0	2
15	R.	WII	15. 320	58. 23	0	7. 5	2½
25	R.	EII	15. 244	57. 04	0	8. 5	--
Mar. 5	Fn.	EII	15. 258	-----	0	8. 0	3
1914							
Apr. 17	Wy.	EI	15. 336	57. 29	0	7. 0	3
21	Hd.	EI	15. 302	56. 94	0	7. 0	2
May 2	Fn.	WI	15. 253	57. 60	0	7. 5	--
11	Hd.	WI	15. 272	57. 68	0	---	3
16	Fn.	WI	15. 304	57. 69	0	7. 5	3
Mean------	1913. 67	12 49	15. 280	−17 32 57. 51			
	1913. 72						
Corr------			−0. 081	−0. 09			

Bradley 1720

			h m s	° ′ ″			
1912							
Apr. 3	R.	WII	12 49 18. 795	+12 54 27. 87	0	7. 0	1
8	Fn.	WII	18. 807	27. 93	0	6. 3	1½
19	Hd.	EII	18. 823	27. 49	0	6. 0	2
27	R.	EII	18. 817	26. 86	0	6. 5	3
1915							
May 10	Hd.	EI	18. 804	27. 65	0	6. 5	2
14	Fn.	WI	18. 808	27. 50	0	---	2½
15	Wy.	WI	18. 827	27. 74	0	7. 0	3
17	Hd.	EI	18. 839	27. 55	0	6. 5	2
Mean------	1913. 83	12 49	18. 815	+12 54 27. 57			
Corr------			−0. 081	−0. 22			

Weisse$_2$ XII 950

			h m s	° ′ ″			
1913							
Mar. 11	R.	EII	12 49 27. 311	+36 13 37. 10	0	---	--
17	Fn.	WII	27. 287	37. 44	0	8. 5	3
21	Fn.	WII	27. 292	36. 92	0	8. 5	3½
22	R.	WII	27. 332	37. 00	0	8. 0	2
29	R.	EII	27. 341	37. 41	0	8. 0	2
30	R.	EII	27. 324	36. 99	0	9. 0	2
1914							
Apr. 28	Hd.	EI	27. 362	36. 78	0	8. 0	2
May 18	Fn.	WI	27. 323	36. 11	0	7. 5	2
19	Wy.	WI	27. 298	36. 96	0	8. 0	2
23	Hd.	EI	27. 324	36. 43	0	8. 0	2½
Mean------	1913. 68	12 49	27. 319	+36 13 36. 91			
Corr------			−0. 081	−0. 26			

ϵ Ursæ Majoris

			h m s	° ′ ″				
			12 50 4. 450	+56 26 53. 46				
1912								
May 13	Fn.	WII	+0. 050	+0. 91	I	---	3	
26	Hd.	EII	−0. 021	+0. 54	II	2. 1	2	
27	Fn.	EII	−0. 010	+1. 89	II	2. 1	2	
30	Fn.	WII	+0. 113	+1. 44	II	---	2	
1915								
May 19	Fn.	EI	+0. 016	−0. 14	I	1. 9	2	
25	Fn.	WI	+0. 037	+0. 61	0	---	2	
27	Wy.	WI	+0. 072	+0. 85	I	---	2½	
June 7	Fn.	EI	+0. 056	+0. 26	I	2. 4	2½	
Mean------	1913. 90		+0. 039	+0. 80				
Corr------			−0. 081	−0. 30				

ϵ Ursæ Majoris s. p.

			h m s	° ′ ″			
			12 50 -----	+56 26 53. 45			
1911							
Nov. 25	Hd.	WII	-----	−3. 0	0	---	5
Dec. 1	R.	WII	-----	−3. 0	0	---	5
1912							
Nov. 10	R.	EII	-----	−1. 6	0	---	3
19	R.	EII	-----	−4. 3	0	---	5
Dec. 20	R.	EII	-----	−0. 6	0	---	--
28	R.	WII	-----	+3. 4	0	---	--
1913							
Jan. 9	Hd.	WII	-----	+1. 7	0	---	5
13	Hd.	WII	-----	+0. 5	0	---	5
1914							
Aug. 20	Fn.	WI	-----	−3. 3	0	---	5
Sept. 22	Wy.	EI	-----	−2. 5	0	---	3½
Oct. 2	Wy.	WI	-----	+3. 9	0	---	5
5	Wy.	WI	-----	−1. 4	0	---	4½
9	Hd.	WI	-----	−1. 1	0	---	5
12	Hd.	WI	-----	−1. 4	I	---	4
19	Hd.	EI	-----	−8. 6	I	---	4
22	Hd.	EI	-----	+3. 7	0	---	5
23	Fn.	EI	-----	+2. 6	0	---	4½
30	Hd.	EI	-----	−4. 7	0	---	5

[1] Double; s. fol. component observed.

				s		"			
1914									
Oct. 31	An.	EI		-----		−3.5	0	---	4½
Nov. 2	Fn.	WI		-----		−2.2	0	---	4½
6	Wy.	WI		-----		−0.6	0	---	4
Dec. 23	Hd.	WI		-----		−0.7	0	---	4½
1915									
Jan. 10	Wy.	WI		-----		−0.9	0	---	3½
13	An.	WI		-----		−3.0	0	---	4
Aug. 12	Fn.	EI		-----		+0.2	0	---	4½
13	An.	EI		-----		−3.2	0	---	4
17	An.	WI		-----		+2.8	0	---	4
18	Wy.	WI		-----		+2.1	0	---	5
Sept. 14	Wy.	EI		-----		−5.6	0	---	4½
Nov. 9	Hd.	WI		-----		+1.1	0	---	5
16	Fn.	WI		-----		−1.0	0	---	5
17	Wy.	WI		-----		−2.2	0	---	5
24	Hd.	EI		-----		+1.1	0	---	4
30	Fn.	EI		-----		+3.4	0	---	4½
Dec. 6	Fn.	WI		-----		−2.2	0	---	5
10	Wy.	WI		-----		+2.8	0	---	5
1916									
Jan. 8	Hd.	EI		-----		+1.9	0	---	5
Mean	1914.71			-----		−0.79			
Corr				-----		+1.53			

Weisse$_1$ XII 818

				h m	s	° ′	"			
1912										
May 18	Hd.	EII		12 51	2.121	+0 32	34.15	0	7.2	2
20	Fn.	EII			2.144		34.26	0	---	2½
21	Hd.	WII			2.138		34.76	0	7.0	2
22	R.	WII			-----		35.67	0	7.0	3½
28	Hd.	WII			2.173		34.39	0	7.2	2
1916										
Jan. 3	Wy.	EI			2.115		35.00	0	7.0	3
7	Wy.	EI			2.086		34.66	0	6.5	3
Feb. 9	Hd.	WI			2.128		35.28	0	7.0	3
15	Hd.	WI			2.177		34.70	0	6.5	3
Mean	1914.23			12 51	2.135	+0 32	34.76			
	1914.02									
Corr					−0.081		−0.18			

δ Virginis

				h m	s	°	′	"			
				12 51	4.048	+3	53	10.83			
					s			"			
1911											
May 15	Fn.	WII			+0.072			+0.84	I	3.6	--
17	T.	WII			+0.021			+0.05	I	3.9	2
18	Fn.	WII			+0.047			−0.06	0	---	--
19	Hd.	WII			+0.028			----	0	---	--
20	T.	WII			+0.066			+0.06	I	---	--
22	Fn.	WII			+0.069			−0.60	0	---	2
23	Hd.	EII			+0.070			[+2.67][1]	0	---	--
24	T.	EII			+0.083			+0.07	I	---	--
25	Fn.	EII			+0.017			−0.78	I	---	--
26	Hd.	EII			+0.051			+1.19	I	2.9	2
27	T.	EII			+0.060			−0.30	I	2.9	2
June 1	Fn.	WII			+0.047			−0.23	I	2.6	--
11	*R.*	*EII*			*+0.035*	*−0.59*		*−0.57*	*I*	---	--
Nov. 30	*Hd.*	*WII*			*+0.045*	*−0.45*		*−0.48*	*0*	---	*3*
Dec. 4	*R.*	*WII*			*+0.075*	*−0.53*		*−0.56*	*0*	---	--
5	*R.*	*WII*			-----	*+0.79*		*+0.76*	*0*	---	--
6	*R.*	*WII*			-----	*+0.15*		*+0.20*	*0*	---	--
10	*Hd.*	*EII*			*+0.027*	*−0.61*		*−0.55*	*0*	---	--
18	*R.*	*EII*			*+0.048*	*+0.14*		*+0.11*	*0*	---	--
19	*R.*	*EII*			-----	*−0.27*		*−0.25*	*0*	---	--
1912											
Apr. 11	Fn.	EII			+0.057			----	I	3.2	2
16	Hd.	EII			+0.088			----	I	---	2
23	Hd.	WII			+0.097			+0.34	I	2.9	2
Nov. 15	*Hd.*	*EII*			*+0.056*	*+0.19*		*+0.22*	*0*	---	*3*
28	*Fn.*	*WII*			*+0.070*	*−0.63*		*−0.48*	*0*	---	*3½*
1913											
Feb. 4	R.	WII			+0.038			+0.37	I	2.9	3½
Mar. 11	R.	EII			+0.079			----	I	---	--
18	R.	WII			+0.092			----	II	2.6	2½
20	R.	WII			+0.064			−0.35	0	---	3½

				s	"	"			
1913									
Mar. 27	R.	EII		+0.027		----	I	2.9	3
May 1	Hd.	EII		+0.053		−0.57	I	2.9	3
2	Fn.	EII		+0.083		+0.54	I	3.4	2
3	R.	EII		+0.057		−0.29	I	2.9	2
5	Hd.	EII		+0.080		−0.14	I	---	3
6	Fn.	EII		+0.046		−0.15	0	---	2½
8	Hd.	EII		+0.056		+0.03	I	2.9	3
19	Hd.	WII		+0.035		+0.10	I	2.9	2
20	Fn.	WII		+0.053		+0.09	I	3.3	2½
Nov. 11	*Hd.*	*WI*		*+0.023*	*−0.11*	*−0.01*	*0*	---	*3*
17	*R.*	*WI*		-----	*−0.05*	*+0.15*	*0*	---	*5*
20	*R.*	*WI*		*+0.087*	*+0.18*	*+0.20*	*0*	---	--
21	*Hd.*	*WI*		*+0.037*	*−0.57*	*−0.49*	*0*	---	*2*
24	*R.*	*EI*		*+0.096*	----	----	*0*	---	--
Dec. 4	*Fn.*	*EI*		*+0.096*	*−0.24*	*−0.26*	*0*	---	*2½*
1914									
Jan. 17	Wy.	WI		+0.067		----	I	---	3
Mar. 7	Wy.	EI		+0.049		−0.35	I	3.4	2½
22	Wy.	EI		+0.040		----	I	3.4	2½
Apr. 22	Fn.	EI		+0.040		+0.58	0	---	2
May 20	Hd.	WI		+0.060		−0.85	I	3.4	2½
21	Fn.	WI		+0.052		−0.02	I	3.9	3
25	Fn.	EI		+0.037		+0.06	0	---	2
26	Wy.	EI		+0.041		−0.79	I	3.4	2½
28	Fn.	EI		+0.074		−0.27	0	---	2
29	Hd.	EI		+0.034		+0.10	I	3.9	2½
June 2	Fn.	EI		+0.029		−0.46	I	3.4	2
5	Fn.	EI		+0.041		+0.24	0	4.0	2
Nov. 9	*Fn.*	*WI*		*+0.052*	*+1.09*	*+1.14*	*0*	---	*3*
16	*Wy.*	*EI*		-----	*+0.29*	*+0.41*	*0*	---	*3½*
17	*Fn.*	*EI*		*−0.007*	*−0.46*	*−0.43*	*0*	---	*2½*
20	*Fn.*	*EI*		*−0.015*	*−0.97*	*−0.89*	*0*	---	--
23	*Hd.*	*EI*		*+0.036*	*−0.48*	*−0.35*	*0*	---	*3*
27	*Wy.*	*EI*		*+0.102*	*−0.24*	*−0.18*	*0*	---	*5*
Dec. 17	*An.*	*WI*		-----	*−1.27*	*−1.28*	*I*	---	*2½*
1915									
Jan. 4	An.	EI		+0.090		----	I	3.4	2
8	Hd.	EI		+0.048		----	I	---	2
Mar. 29	Fn.	EI		+0.051		----	0	---	3½
Apr. 13	Fn.	WI		+0.054		+0.84	I	3.9	2½
May 5	Hd.	EI		+0.051		----	0	---	3
8	Hd.	EI		+0.055		+0.64	I	3.4	3
11	Fn.	EI		+0.054		----	0	---	2½
13	Hd.	WI		+0.037		+0.04	I	3.4	2
14	Fn.	WI		+0.030		+0.14	0	---	2½
15	Wy.	WI		+0.051		+0.52	I	3.9	2½
21	Wy.	WI		+0.019		----	I	3.9	3
31	Wy.	WI		+0.043		+0.44	I	---	3
June 4	An.	WI		+0.047		−0.39	I	3.9	3
8	Hd.	EI		+0.076		+0.13	I	2.9	2½
9	An.	EI		0.000		+0.02	I	3.4	3
Nov. 5	*Hd.*	*EI*		*+0.035*	*−0.27*	*−0.19*	*0*	---	*3*
17	*Hd.*	*WI*		-----	*−0.80*	*−0.75*	*0*	---	*3*
21	*Fn.*	*EI*		*+0.083*	*−0.23*	*−0.15*	*0*	---	*3½*
Dec. 2	*Fn.*	*EI*		*+0.091*	*−0.22*	*−0.24*	*0*	---	*3*
23	Hd.	WI		+0.036		----	I	3.4	3
Mean	1913.63			+0.053		+0.02			
	1913.54								
Corr				−0.081		−0.19			

Weisse$_1$ XII 821

				h m	s	°	′	"			
1913											
Apr. 20	R.	WII		12 51	9.254	−14	50	22.08	0	6.0	2½
21	Hd.	EII			9.265			23.07	0	6.0	2
22	Fn.	EII			9.223			22.51	0	---	3
30	R.	EII			9.228			23.37	0	6.5	2½
May 13	Fn.	WII			9.253			23.09	0	---	3
1914											
Apr. 6	Fn.	WI			9.231			23.33	0	6.5	3
9	Fn.	WI			9.265			22.26	0	6.0	3
13	Fn.	EI			9.260			22.27	0	6.5	2½
23	Wy.	EI			9.225			22.29	0	6.5	2½
Mean	1913.75			12 51	9.245	−14	50	22.70			
Corr					−0.081			−0.11			

[1] Clouds interfered; only one bisection.

α Canum Venaticorum *seq.*

				h m s	° ′ ″			
				12 51 49.052	+38 48 15.68			
				s	″	″		
1912								
May	9	Fn.	WII	+0.005		−0.37	I	2.2 2
	10	Hd.	WII	+0.103		+0.14	I	2.9 2
	24	Hd.	EII	+0.025		−0.41	I	2.9 3
	25	R.	EII	+0.007		−0.12	II	2.6 2
1916								
Jan.	8	Fn.	EI	+0.096		−0.21	I	2.9 2½
	14	Hd.	EI	+0.084		−0.11	II	3.1 2
Mar.	3	Hd.	WI	+0.056		+0.60	I	2.9 2
	4	Wy.	WI	+0.024		+0.59	I	2.9 3
June	2	Hd.	EI	+0.022		+0.04	I	2.9 2
	5	Hd.	EI	−0.004		−0.08	I	--- 3
	8	Hd.	EI	−0.012		----	0	--- 3
	12	*Wy.*	*EI*	*+0.049*	*−0.14*	*−0.14*	*I*	--- 2½
	13	*Fn.*	*EI*	*−0.023*	*−0.36*	*−0.36*	*I*	--- *2*
	20	*Hd.*	*WI*	*+0.018*	*−0.03*	*−0.03*	*0*	--- *2*
	22	*Fn.*	*WI*	*+0.035*	*+0.08*	*+0.08*	*0*	--- *2*
	23	*Hd.*	*WI*	*+0.023*	*+0.09*	*+0.09*	*I*	--- *2*
	26	*Hd.*	*WI*	*−0.037*	*+0.24*	*+0.24*	*0*	--- *2*
	27	*Wy.*	*WI*	*+0.115*	*−0.24*	*−0.24*	*0*	--- *3*
July	*6*	*Wy.*	*EI*	*−0.046*	*+0.38*	*+0.38*	*0*	--- *3*
	7	*Fn.*	*EI*	*−0.039*	*+0.04*	*+0.04*	*0*	--- 2½
Aug.	*24*	*Wy.*	*WI*	*+0.068*	*+0.46*	*+0.46*	*0*	--- 3½
Sept.	*20*	*Wy.*	*EI*	*+0.067*	*−0.21*	*−0.21*	*0*	--- 3½
Oct.	*22*	*Wy.*	*WI*	-----	*−0.47*	*−0.47*	*0*	--- *4*
	25	*Wy.*	*EI*	-----	*−0.38*	*−0.38*	*0*	--- 3½
	26	*Hd.*	*EI*	*+0.048*	*−1.28*	*−1.28*	*0*	--- *3*
Nov.	*1*	*Hd.*	*EI*	*+0.008*	*−0.06*	*−0.06*	*0*	--- *3*
	2	*Fn.*	*EI*	*+0.130*	*+0.01*	*+0.01*	*0*	--- 3½
	6	*Wy.*	*EI*	*+0.031*	*+0.10*	*+0.10*	*0*	--- *3*
	8	*Wy.*	*EI*	*+0.039*	*+0.24*	*+0.24*	*0*	--- 3½
	16	*Hd.*	*WI*	*+0.005*	*−0.38*	*−0.38*	*0*	--- *3*
Dec.	*6*	*Fn.*	*EI*	*+0.048*	----	----	*0*	--- *3*
1917								
Apr.	9	Hd.	WI	+0.043		−0.69	I	2.9 3
	10	Fn.	WI	-----		+0.43	I	2.9 2½
	13	Fn.	WI	+0.069		----	I	3.4 2
	16	Fn.	WI	+0.034		−0.47	I	2.9 2½
	19	Fn.	EI	+0.072		+0.19	0	--- 3
May	1	Fn.	EI	-----		+0.16	I	3.4 3
	3	Hd.	EI	+0.048		−0.01	I	3.9 2
	10	Fn.	WI	+0.041		----	I	3.4 2½
	11	Wy.	WI	+0.069		+0.17	I	2.9 2½
	15	Hd.	WI	+0.041		−0.16	I	--- 3
	22	Fn.	WI	+0.043		----	I	--- 3
	25	Fn.	WI	+0.041		----	I	2.9 2½
June	4	Wy.	WI	+0.059		+0.04	I	2.9 3
	19	*Fn.*	*WII*	*+0.047*	*+0.46*	*+0.46*	*0*	--- 2½
	22	*Fn.*	*WII*	*+0.037*	*+0.45*	*+0.45*	*0*	--- 2½
	25	*Wy.*	*WII*	*+0.039*	*−0.30*	*−0.30*	*0*	--- *3*
July	*30*	*Wy.*	*EII*	*+0.019*	*−1.42*	*−1.42*	*0*	--- 3½
Aug.	*6*	*Hd.*	*WII*	*+0.026*	*+0.09*	*+0.09*	*0*	--- *3*
	10	*Wy.*	*WII*	*+0.001*	*+0.41*	*+0.41*	*0*	--- 3½
	13	*Fn.*	*WII*	*+0.029*	*−0.01*	*−0.01*	*0*	--- *3*
	17	*Wy.*	*WII*	*+0.070*	*−0.57*	*−0.57*	*0*	--- *3*
	21	*Wy.*	*WII*	*+0.019*	*−0.91*	*−0.91*	*0*	--- *4*
Sept.	*17*	*Hd.*	*EII*	*+0.087*	*−0.17*	*−0.17*	*0*	--- 3½
	18	*Wy*	*EII*	*+0.083*	*−0.69*	*−0.69*	*0*	--- *3*
Oct.	*21*	*Hd.*	*EII*	*+0.042*	*−0.41*	*−0.41*	*0*	--- 3½
	25	*Fn.*	*EII*	*+0.019*	*−0.03*	*−0.03*	*0*	--- 3½
Nov.	*1*	*Fn.*	*EII*	*+0.091*	*−0.79*	*−0.79*	*0*	--- 3½
1918								
Apr.	15	Fn.	EII	−0.026		−0.58	I	2.9 2
May	2	Fn.	EII	+0.042		−0.55	I	2.9 3
	15	Fn.	WII	+0.034		+0.08	0	--- 2
Mean		1916.36		+0.041		−0.06		
		1916.26						
Corr				−0.081		−0.27		

8 Draconis

				h m s	° ′ ″			
1913								
Apr.	17	R.	WII	12 51 53.77	+65 55 35.31		0	5.5 3½
	18	Fn.	WII	53.80		35.88	0	5.6 2½
	24	Hd.	EII	53.85		35.68	I	4.4 1
	25	Fn.	EII	53.86		35.67	0	5.5 2
1914								
Mar.	13	Fn.	WI	53.86		36.56	0	5.5 1½
	14	Wy.	WI	53.74		35.21	0	--- 3½
Apr.	26	Hd.	EI	53.84		35.67	0	6.0 2
	27	Wy.	EI	53.81		35.91	0	5.5 2
Mean		1913.78		12 51 53.816	+65 55 35.74			
Corr				−0.081		−0.33		

Bradley 1726 [1]

				h m s	° ′ ″			
1912								
May	26	Hd.	EII	12 52 21.052	+54 35 10.67		0	6.2 3
	27	Fn.	EII	21.058		11.64	0	--- 2
	30	Fn.	WII	21.192		11.04	0	--- 2
	31	Hd.	WII	21.146		11.16	0	6.0 2
1916								
Jan.	23	Fn.	EI	21.095		10.77	0	6.0 2
	25	Hd.	EI	21.140		11.80	0	6.0 2
Feb.	29	Hd.	WI	21.020		11.59	0	6.0 2
Mar.	10	Fn.	WI	21.023		12.65	0	6.0 2½
Mean		1914.26		12 52 21.091	+54 35 11.42			
Corr				−0.081		−0.30		

Groombridge 1938

				h m s	° ′ ″			
1913								
Apr.	1	Hd.	EII	12 52 29.329	+44 2 20.13		0	--- 3½
	2	Fn.	EII	29.365		20.22	0	--- 2½
	6	R.	WII	29.360		20.40	0	7.0 2
	7	Fn.	WII	29.343		20.65	0	6.8 2
1914								
Jan.	28	Fn.	WI	29.366		19.66	0	7.0 3
	31	Fn.	WI	29.418		20.88	0	7.0 3½
Feb.	7	Wy.	EI	29.415		19.58	0	7.0 2½
	26	Hd.	EI	29.353		20.14	0	--- 3
Mean		1913.68		12 52 29.369	+44 2 20.21			
Corr				−0.081		−0.28		

Weisse$_1$ XII 869

				h m s	° ′ ″			
1913								
Feb.	15	R.	WII	12 53 56.016	−6 27 44.80		0	8.0 3½
Mar.	18	R.	WII	56.033		45.26	0	7.0 2½
	29	R.	EII	56.056		44.40	0	8.0 3
	30	R.	EII	56.062		45.40	0	8.5 3
	31	Fn.	EII	56.059		44.31	0	8.5 3
1914								
Apr.	21	Hd.	EI	56.028		44.03	0	7.5 2
	28	Hd.	EI	56.060		44.44	0	7.5 2½
May	11	Hd.	WI	56.035		44.84	0	--- 2½
	16	Fn.	WI	56.060		45.34	0	7.5 3
Mean		1913.71		12 53 56.045	−6 27 44.76			
Corr				−0.081		−0.16		

Bradley 1729

				h m s	° ′ ″			
1912								
Apr.	8	Fn.	WII	12 55 1.208	−3 19 35.64		0	6.0 2½
	9	Hd.	WII	1.297		36.05	0	6.0 3
	11	Fn.	EII	1.324		35.89	0	--- 2½
	16	Hd.	EII	1.307		36.17	0	--- 2
1915								
May	19	Fn.	EI	1.283		35.22	0	6.0 2½
	21	Wy.	WI	1.271		36.66	0	6.5 3
	27	Wy.	WI	1.312		36.01	0	--- 2½
June	7	Fn.	EI	1.273		34.80	0	6.0 2½
Mean		1913.84		12 55 1.284	−3 19 35.80			
Corr				−0.081		−0.17		

[1] Double; s. fol. component observed.

Radcliffe 1845, 2950

			h m	s	° ′	″			
1912									
Apr. 10	R.	WII	12 56	7.72	+75 57	27.23	0	7.0	2
19	Hd.	EII		7.71		28.32	0	6.5	2
20	Fn.	WII		7.85		27.09	0	---	--
27	R.	EII		7.64		27.87	0	6.5	2½
1915									
Mar. 30	Wy	EI		7.91		27.78	0	---	2½
Apr. 6	Wy	EI		7.89		27.72	0	6.0	3
13	Fn.	WI		7.69		[29.37]	0	6.0	2½
14	An.	WI		7.95		27.49	0	6.0	2½
Mean	1913.78		12 56	7.795	+75 57	27.64			
	1913.57								
Corr				−0.081		−0.35			

Radcliffe 1845, 2950 S. P.

			h m	s	° ′	″			
1912									
Oct. 30	Fn.	EII	12 56	7.64	+75 57	26.21	0	---	4
Nov. 9	Fn.	WII		7.63		27.12	0	6.2	4
10	R.	EII		7.70		27.87	0	---	5
11	R.	EII		7.53		28.04	0	7.0	4
25	Fn.	WII		7.28		27.90	0	6.3	3½
1913									
Nov. 4	R.	EI		7.65		26.35	0	6.0	3½
5	Hd.	EI		7.87		27.59	0	6.5	3
11	R.	WI		7.81		27.56	0	---	5
21	R.	WI		7.81		27.32	0	6.0	3
Mean	1913.31		12 56	7.658	+75 57	27.33			
Corr				−0.081		+0.52			

B. D. +32° 2311

			h m	s	° ′	″			
1913									
Jan. 25	R.	EII	12 56	7.875	+32 15	52.09	0	6.5	1½
Feb. 8	R.	WII		7.871		52.02	0	7.0	2
13	R.	WII		7.859		51.77	0	7.0	2
25	R.	EII		7.943		52.09	0	---	2
1914									
Feb. 17	Fn.	WI		7.925		52.92	0	7.0	3½
27	Fn.	EI		7.926		51.80	0	7.0	1½
Mar. 7	Wy.	EI		7.857		52.22	0	6.5	2
12	Hd.	WI		7.915		52.06	0	6.5	2
Mean	1913.64		12 56	7.896	+32 15	52.12			
Corr				−0.081		−0.25			

Bradley 1736

			h m	s	° ′	″			
1912									
May 13	Fn.	WII	12 56	52.269	+56 51	4.73	0	---	2
20	Fn.	EII		52.174		4.78	0	5.0	2½
21	Hd.	WII		52.260		5.12	I	4.4	2
24	Hd.	EII		52.263		5.15	I	4.9	3
1915									
Apr. 19	Fn.	WI		52.345		5.37	0	5.5	2½
24	An.	WI		52.322		5.14	I	5.4	2
May 10	Hd.	EI		52.339		5.50	I	4.9	2
17	Hd.	EI		52.379		5.29	0	---	3
Mean	1913.86		12 56	52.294	+56 51	5.14			
Corr				−0.081		−0.31			

ε Virginis

			h m	s	° ′	″			
			12 57	41.729	+11 26	33.79			
1911				s		″			
May 15	Fn.	WII		−0.004		+0.88	I	2.7	--
17	T.	WII		+0.057		+0.45	0	---	1½
19	Hd.	WII		+0.034		----	0	---	--
20	T.	WII		+0.040		−0.15	I	3.4	--
22	Fn.	WII		+0.043		−0.71	0	---	2
23	Hd.	EII		+0.055		−0.05	I	2.9	--
25	Fn.	EII		+0.034		−0.20	I	---	--
26	Hd.	EII		+0.039		−0.04	I	2.9	2
1911				s		″			
May 27	T.	EII		+0.037		−0.23	I	2.9	2
29	Fn.	WII		+0.030		−0.39	0	---	4
June 1	Fn.	WII		+0.009		+0.66	I	2.2	--
11	*T.*	*EII*		*+0.040*	*−0.08*	*−0.07*	*I*	---	--
Nov. 20	*R.*	*EII*		-----	*−1.24*	*−1.21*	*0*	---	--
30	*Hd.*	*WII*		*+0.012*	*−0.01*	*−0.03*	*0*	---	*3*
Dec. 4	*R.*	*WII*		*+0.059*	*−0.84*	*−0.86*	*0*	---	--
5	*R.*	*WII*		-----	*+0.03*	*+0.02*	*0*	---	--
6	*R.*	*WII*		-----	*−0.37*	*−0.36*	*0*	---	--
7	*R.*	*WII*		*+0.029*	*−0.47*	*−0.49*	*0*	---	--
10	*Hd.*	*EII*		*+0.023*	*−0.48*	*−0.42*	*0*	---	--
18	*R.*	*EII*		*+0.043*	----	----	*0*	---	--
19	*R.*	*EII*		-----	*−0.12*	*−0.11*	*0*	---	--
1912									
Apr. 23	Hd.	WII		+0.025		+0.88	I	2.9	2
May 1	R.	EII		+0.032		−0.20	I	2.9	3½
4	R.	WII		+0.015		+0.23	II	2.6	1½
9	Fn.	WII		+0.015		−0.03	I	2.3	2
18	Hd.	EII		+0.006		----	I	3.1	2
19	R.	EII		+0.032		----	I	---	3½
22	R.	WII		-----		+0.59	I	---	4
25	R.	EII		+0.034		−0.02	II	2.6	2
26	Hd.	EII		+0.045		−0.09	I	2.4	2½
27	Fn.	EII		+0.026		+0.05	I	2.6	2
28	Hd.	WII		+0.051		−0.11	I	2.4	2
30	Fn.	WII		+0.054		----	I	---	2
31	Hd.	WII		+0.045		−0.76	I	2.4	2
June 1	R.	WII		+0.055		+0.34	I	4.4	1
Nov. 10	*R.*	*EII*		-----	*−0.64*	*−0.51*	*0*	---	--
15	*Hd.*	*EII*		*+0.001*	*−0.46*	*−0.44*	*0*	---	*3½*
22	*Hd.*	*EII*		*+0.051*	*0.00*	*−0.01*	*0*	---	*1½*
25	*Hd.*	*WII*		*+0.027*	*−0.11*	*−0.06*	*0*	---	*3*
28	*Fn.*	*WII*		*+0.001*	*+0.15*	*+0.25*	*0*	---	*3½*
1913									
Feb. 4	R.	WII		+0.064		−0.29	I	2.9	3
Mar. 11	R.	EII		+0.020		----	II	2.6	2
17	Fn.	WII		+0.005		−0.10	I	2.6	3
22	R.	WII		+0.048		−0.53	II	2.6	2
Apr. 1	Hd.	EII		+0.004		+0.17	I	2.9	3
2	Fn.	EII		+0.013		+0.01	I	---	2
3	R.	EII		+0.025		----	I	---	3½
6	R.	WII		+0.037		−0.65	II	3.1	2
7	Fn.	WII		−0.001		----	I	2.6	2
18	Fn.	WII		−0.015		−0.78	I	3.4	2½
20	R.	WII		+0.010		−1.52	II	2.6	2½
21	Hd.	EII		+0.032		+0.13	I	2.9	2
22	Fn.	EII		+0.009		+0.35	I	2.9	1½
24	Hd.	EII		+0.043		−0.13	I	2.9	1
25	Fn.	EII		+0.023		+0.28	I	2.9	1½
30	R.	EII		+0.005		+0.03	II	2.6	2
May 1	Hd.	EII		+0.003		+0.19	I	2.4	3
2	Fn.	EII		+0.021		+0.21	I	2.9	2
3	R.	EII		−0.004		−0.19	II	2.6	2
5	Hd.	EII		+0.003		+0.28	I	---	2½
6	Fn.	EII		+0.025		−0.10	0	---	2½
8	Hd.	EII		+0.036		−0.43	I	2.9	3
12	Hd.	WII		−0.010		−0.06	I	---	3
13	Fn.	WII		+0.015		−0.18	0	---	2½
15	Hd.	WII		+0.027		+0.45	0	---	3
19	Hd.	WII		+0.052		+0.24	I	2.7	2
20	Fn.	WII		+0.035		−0.02	I	3.0	2
Nov. 6	*R.*	*EI*		*+0.078*	*−0.31*	*−0.19*	*0*	---	*5*
11	*Hd.*	*WI*		*+0.039*	*−0.39*	*−0.32*	*0*	---	*3*
17	*R.*	*WI*		-----	*−1.23*	*−1.07*	*0*	---	--
20	*R.*	*WI*		*+0.061*	*−0.21*	*−0.18*	*0*	---	--
21	*Hd.*	*WI*		*−0.009*	*−0.05*	*+0.01*	*0*	---	*2*
24	*R.*	*EI*		*+0.033*	*+0.14*	*+0.21*	*0*	---	--
Dec. 3	*Fn.*	*EI*		*+0.047*	*−0.08*	*−0.08*	*0*	---	*2½*
4	*Fn.*	*EI*		*+0.092*	*−0.50*	*−0.51*	*0*	---	*3*
5	*Hd.*	*EI*		*−0.002*	*−0.04*	*−0.05*	*0*	---	*2*
1914									
Feb. 3	Fn.	EI		+0.026		+0.06	I	3.4	3
21	Wy.	WI		+0.013		−0.35	I	2.9	1½
Mar. 4	Wy.	WI		+0.028		+0.28	0	---	2½
13	Fn.	WI		−0.009		----	I	2.9	1½
14	Wy.	WI		+0.030		−0.21	0	---	3½
22	Wy.	EI		+0.027		----	I	3.4	2½
26	Hd.	EI		+0.021		+0.04	I	2.9	2

				″	″			
1914								
Apr. 6	Fn.	WI	+0.040		+0.51	I	2.9	2½
9	Fn.	WI	+0.063		+0.74	I	2.9	2
13	Fn.	EI	+0.021		−0.06	I	2.9	2
17	Wy.	EI	+0.071		+0.17	I	2.4	2
22	Fn.	EI	+0.050		+0.65	0	...	...
23	Wy.	EI	+0.018		+0.73	I	2.9	2
26	Hd.	EI	+0.067		+0.28	I	3.4	2
27	Wy.	EI	+0.071		+0.37	I	2.9	2½
30	Wy.	WI	+0.032		+0.02	I	3.9	2½
May 2	Fn.	WI	−0.002		+0.46	I	3.4	3½
5	Hd.	WI	+0.034		+0.14	I	...	3
6	Fn.	WI	+0.042		+1.10	0	...	2½
11	Hd.	WI	+0.028		+0.67	I	2.9	2½
15	Wy.	WI	+0.015		−0.11	I	3.4	2½
16	Fn.	WI	+0.023		+0.43	I	2.9	2
18	Fn.	WI	+0.094		−0.49	I	2.9	2
19	Wy.	WI	−0.018		+0.10	I	3.9	2½
20	Hd.	WI	+0.013		−0.13	I	2.9	2½
21	Fn.	WI	+0.026		−0.03	I	3.4	3
23	Hd.	EI	+0.027		+0.23	I	2.9	3
25	Fn.	EI	−0.006		−0.21	0	...	2
26	Wy.	EI	+0.006		+0.19	I	3.4	3
28	Fn.	EI	+0.029		+0.58	I	...	2
29	Hd.	EI	+0.002		+0.33	I	3.9	2
June 2	Fn.	EI	−0.009		+0.42	I	2.9	2
5	Fn.	EI	+0.002		+0.70	I	3.4	2
6	Wy.	EI	+0.040		+1.07	I	...	2½
Oct. 30	*An.*	*EI*	*+0.057*	*+0.27*	*+0.34*	*0*	...	*3½*
Nov. 9	*Fn.*	*WI*	*+0.076*	*+0.22*	*+0.26*	*0*	...	*3*
12	*Fn.*	*WI*	*+0.032*	...	...	*0*	...	*4*
16	*Wy.*	*EI*	*+0.109*	*−0.24*	*−0.15*	*0*	...	*3*
17	*Fn.*	*EI*	*−0.056*	*+0.18*	*+0.20*	*0*	...	*3*
20	*Fn.*	*EI*	*+0.061*	*−0.34*	*−0.29*	*0*	...	*3*
22	*Fn.*	*EI*	*−0.015*	*−0.41*	*−0.38*	*0*	...	*3*
23	*Hd.*	*EI*	*+0.045*	*+0.10*	*+0.18*	*0*	...	*3*
25	*Wy.*	*EI*	...	*+0.13*	*+0.06*	*0*	...	*4*
27	*Wy.*	*EI*	*+0.023*	*−0.13*	*−0.08*	*0*	...	*3*
1915								
Mar. 29	Fn.	EI	+0.055		...	0	...	3½
Apr. 7	An.	EI	+0.060		+0.77	II	3.6	2½
8	Hd.	EI	+0.040		+0.44	I	2.9	2
10	An.	EI	+0.017		+0.16	I	2.4	3
15	Hd.	WI	+0.011		+0.33	I	2.9	2
17	An.	WI	+0.026		...	II	3.6	2
May 5	Hd.	EI	+0.050		...	0	...	3
6	Fn.	EI	+0.032		+0.11	I	2.9	2½
8	Hd.	EI	+0.024		...	I	2.9	2
13	Hd.	WI	+0.077		...	0	...	2
14	Fn.	WI	+0.030		−0.35	0	...	2
15	Wy.	WI	+0.004		−0.31	I	3.4	2½
21	Wy.	WI	+0.035		+0.06	I	3.4	3
23	Wy.	WI	+0.058		...	0	...	3
31	Wy.	WI	+0.003		−0.94	I	3.4	2½
June 4	An.	WI	+0.051		−0.40	II	3.6	3
7	Fn.	EI	+0.021		+0.14	I	2.9	2
8	Hd.	EI	+0.014		+0.40	I	3.4	2
9	An.	EI	+0.038		+0.33	II	3.1	3
Oct. 29	*Wy.*	*EI*	*+0.006*	*−2.02*	*−1.94*	*0*	...	*4*
Nov. 2	*Hd.*	*EI*	*+0.068*	*−0.53*	*−0.42*	*0*	...	*3½*
4	*Wy.*	*EI*	...	*+0.86*	*+0.90*	*0*	...	*4*
5	*Hd.*	*EI*	*+0.075*	*−0.19*	*−0.13*	*0*	...	*3*
12	*Fn.*	*WI*	*+0.054*	*−0.69*	*−0.68*	*0*	...	*3½*
16	*Wy.*	*WI*	*−0.009*	*−0.53*	*−0.46*	*0*	...	*3½*
17	*Hd.*	*WI*	...	*−0.39*	*−0.34*	*0*	...	*2*
19	*Wy.*	*EI*	*+0.073*	*−0.36*	*−0.32*	*0*	...	*3½*
21	*Fn.*	*EI*	*+0.016*	...	...	*0*	...	*3½*
23	*Hd.*	*EI*	*+0.042*	*−0.31*	*−0.28*	*0*	...	*2*
29	*Fn.*	*EI*	*+0.004*	*+0.13*	*+0.17*	*0*	...	*3*
Dec. 2	*Fn.*	*EI*	*+0.045*	*−0.16*	*−0.17*	*0*	...	*3*
10	*Fn.*	*WI*	...	*−0.65*	*−0.62*	*0*	...	*2½*
1916								
Jan. 23	Fn.	EI	+0.065		−0.12	I	2.9	2
Feb. 3	Fn.	EI	+0.036		+0.08	I	3.4	2½
7	Fn.	EI	+0.018		+0.15	I	2.9	2½
9	Hd.	WI	+0.020		+0.10	0	...	3
15	Hd.	WI	+0.043		−0.13	I	2.9	3
29	Hd.	WI	+0.014		−0.47	I	2.9	2
Mar. 3	Hd.	WI	+0.015		+0.21	I	2.9	2

			s	″	″			
1916								
June 20	*Hd.*	*WI*	*+0.042*	*−0.31*	*−0.32*	*I*	...	*2½*
22	*Fn.*	*WI*	*+0.033*	*−0.34*	*−0.34*	*0*	...	*2*
23	*Hd.*	*WI*	*−0.013*	*+0.25*	*+0.20*	*I*	...	*2*
26	*Hd.*	*WI*	*+0.001*	*−0.37*	*−0.38*	*0*	...	*2*
27	*Wy.*	*WI*	...	*−0.62*	*−0.63*	*0*	...	*3*
July 6	*Wy.*	*EI*	*−0.038*	*−0.05*	*−0.08*	*0*	...	*3*
7	*Fn.*	*EI*	*−0.002*	*−0.76*	*−0.74*	*0*	...	*2½*
18	*Wy.*	*EI.*	*−0.032*	*−0.36*	*−0.42*	*0*	...	*3½*
Aug. 24	*Wy.*	*WI*	*+0.052*	*−0.18*	*−0.07*	*0*	...	*3½*
Sept. 11	*Hd.*	*WI*	*+0.045*	*−0.31*	*−0.17*	*0*	...	*3*
Oct. 26	*Hd.*	*EI*	*+0.061*	*+0.19*	*+0.31*	*0*	...	*3½*
Nov. 1	*Hd.*	*EI*	*+0.058*	*−0.49*	*−0.40*	*0*	...	*3½*
2	*Fn.*	*EI*	*+0.108*	*−0.31*	*−0.24*	*0*	...	*3½*
16	*Hd.*	*WI*	*+0.051*	*−0.51*	*−0.46*	*0*	...	*3*
26	*Wy.*	*WI*	*+0.012*	*−0.26*	*−0.19*	*0*	...	*3½*
1917								
Apr. 10	Fn.	WI	+0.062		+0.26	I	2.9	2½
19	Fn.	EI	+0.045		+0.05	I	3.4	3
May 3	Hd.	EI	+0.024		+0.64	I	2.9	2
10	Fn.	WI	+0.035		+0.06	I	3.4	2½
11	Wy.	WI	+0.059		−0.70	I	3.4	2½
14	Wy.	WI	+0.033		−0.55	I	3.4	3
15	Hd.	WI	+0.036		+0.30	I	...	3
22	Fn.	WI	+0.047		...	0	...	2½
June 4	Wy.	WI	+0.021		+0.13	I	3.4	3
22	*Fn.*	*WII*	*−0.020*	*−0.14*	*−0.15*	*0*	...	*2½*
25	*Wy.*	*WII*	*−0.036*	*−0.52*	*−0.49*	*0*	...	*3*
July 30	*Wy.*	*EII*	*+0.003*	*−0.25*	*−0.17*	*0*	...	*3½*
Aug. 6	*Hd.*	*WII*	*+0.023*	*−0.46*	*−0.43*	*0*	...	*3*
10	*Wy.*	*WII*	*−0.024*	*−0.23*	*−0.18*	*0*	...	*3½*
17	*Wy.*	*WII*	*−0.025*	*[−2.22]*	*[−2.16]*	*0*	...	*3½*
21	*Wy.*	*WII*	*+0.001*	*−0.18*	*−0.19*	*0*	...	*4*
Sept. 17	*Hd.*	*EII*	*−0.003*	...	...	*0*	...	*3½*
Nov. 25	*Hd.*	*WII*	...	*+0.04*	*+0.08*	*0*	...	*3*
1918								
May 2	Fn.	EII	+0.028		+0.24	I	2.9	3
6	Fn.	EII	+0.035		...	I	3.9	2½
8	Fn.	EII	+0.024		+0.04	I	2.9	2
Mean	1914.23		+0.029		+0.08			
	1914.17							
Corr			−0.081		−0.21			

B. D. +23° 2530

			h	m	s	°	′	″			
1913											
Mar. 20	R.	WII	12	58	36.413	+23	7	17.68	0	...	2
21	Fn.	WII			36.428			17.49	0	7.0	3½
28	Fn.	EII			36.379			18.14	0	6.7	2
29	R.	EII			36.407			17.15	0	7.5	2½
1914											
Jan. 28	Fn.	WI			36.414			17.99	0	7.0	3
29	Wy.	WI			36.342			16.93	0	7.0	3½
Feb. 7	Wy.	EI			36.423			16.24	0	7.0	2½
26	Hd.	EI			36.349			17.42	0	...	3
Mar. 20	Fn.	EI			36.407			17.31	0	6.5	2
Mean	1913.73		12	58	36.396	+23	7	17.37			
Corr					−0.081			−0.24			

Radcliffe 1890, 3403

			h	m	s	°	′	″			
1913											
Feb. 15	R.	WII	13	1	7.182	−13	37	46.43	0	7.5	3½
Mar. 5	Fn.	EII			7.102			45.92	0	7.5	3
18	R.	WII			7.185			45.82	0	7.0	3
30	R.	EII			7.155			45.61	0	7.5	4
1914											
Jan. 31	Fn.	WI			7.158			46.34	0	...	3½
Feb. 27	Fn.	EI			7.240			45.82	0	7.5	3
Mar. 3	Fn.	WI			7.189			46.59	0	...	3½
26	Hd.	EI			7.152			45.76	0	7.5	3
Mean	1913.68		13	1	7.170	−13	37	46.04			
Corr					−0.081			−0.12			

14 Canum Venaticorum

				h	m	s	°	′	″			
1915												
Mar. 29	Fn.	EI		13	1	32.054	+36	16	-----	0	---	3
May 6	Fn.	EI				32.047			-----	0	5.0	2
14	Fn.	WI				32.043			-----	0	---	2½
17	Hd.	EI				32.064			-----	0	6.0	2
21	Wy.	WI				32.103			-----	0	5.7	--
25	Fn.	WI				32.063			-----	0	---	2
27	Wy.	WI				32.096			-----	0	5.7	2
31	Wy.	WI				32.052			-----	0	---	2
June 4	An.	WI				32.083			-----	0	5.0	2
7	Fn.	EI				32.065			-----	0	6.0	2
8	Hd.	EI				32.061			-----	0	5.5	2
17	Fn.	WI				32.026			-----	0	---	2
1917												
May 25	Fn.	WI				32.057			-----	0	5.0	2½
June 19	*Fn.*	*WII*				*32.074*			-----	*0*	---	2½
1918												
May 6	Fn.	EII				32.030			-----	0	6.0	2
Mean	1915.74			13	1	32.060	+36	16	-----			
Corr						−0.081			-----			

Groombridge 1956

				h	m	s	°	′	″			
1913												
Jan. 25	R.	EII		13	1	49.436	+45	44	59.44	0	7.0	2
Feb. 4	R.	WII				49.527			59.06	0	5.5	2½
8	R.	WII				49.446			59.24	0	5.5	2
25	R.	EII				49.487			58.66	0	6.0	1½
1914												
Mar. 12	Hd.	WI				49.508			59.07	0	6.0	3
13	Fn.	WI				49.465			58.71	0	5.5	1½
Apr. 17	Wy.	EI				49.446			58.77	0	5.5	2
21	Hd.	EI				49.470			59.31	0	6.0	2
Mean	1913.68			13	1	49.473	+45	44	59.03			
Corr						−0.081			−0.28			

Bradley 1743

				h	m	s	°	′	″			
1912												
Apr. 3	R.	WII		13	2	51.708	+28	6	27.13	I	4.4	1
8	Fn.	WII				51.720			27.52	0	5.1	1½
11	Fn.	EII				51.726			26.35	0	5.0	1½
16	Hd.	EII				51.670			26.31	0	---	2
1915												
Mar. 30	Wy.	EI				51.753			25.97	0	---	3½
Apr. 6	Wy.	EI				51.735			26.63	I	4.4	2½
7	An.	EI				51.748			27.45	I	5.4	2
15	Hd.	WI				51.687			27.18	I	4.4	2
17	An.	WI				51.709			26.53	I	4.9	2
Mean	1913.94			13	2	51.717	+28	6	26.79			
Corr						−0.081			−0.25			

ψ Hydræ

				h	m	s	°	′	″			
1912												
Apr. 20	Fn.	WII		13	4	12.288	−22	38	13.61	0	5.0	2½
23	Hd.	WII				12.266			12.67	0	5.5	3
May 1	R.	EII				12.325			13.47	0	5.5	3½
2	Fn.	EII				12.300			13.63	0	5.3	2
1915												
Apr. 8	Hd.	EI				12.270			13.23	0	6.0	3
13	Fn.	WI				12.295			13.10	0	5.0	3
14	An.	WI				12.267			13.43	0	6.0	3
May 6	Fn.	EI				12.264			13.62	0	5.5	3
Mean	1913.81			13	4	12.284	−22	38	13.34			
Corr						−0.081			−0.05			

Weisse$_1$ XII 1063

				h	m	s	°	′	″			
1913												
Mar. 22	R.	WII		13	4	17.239	+5	42	12.78	0	7.0	2
Apr. 1	Hd.	EII				17.253			12.73	0	6.5	3
1913												
Apr. 6	R.	WII				17.228			12.77	0	7.0	2
21	Hd.	EII				17.225			12.73	0	7.0	2
1914												
Apr. 10	Wy.	WI				17.287			11.36	0	7.0	3
23	Wy.	EI				17.267			11.83	0	7.0	2
27	Wy.	EI				17.246			11.93	0	6.5	2½
May 2	Fn.	WI				17.271			11.56	0	7.0	3½
Mean	1913.78			13	4	17.252	+5	42	12.21			
Corr						−0.081			−0.19			

θ Virginis [1]

				h	m	s	°	′	″			
				13	5	17.304	−5	3	31.48			
1911												
May 26	Hd.	EII				+0.073			+0.31	I	4.4	2
27	T.	EII				+0.047			+0.32	I	4.9	2
June 1	Fn.	WII				+0.086			+0.06	I	---	--
1913												
Apr. 8	R.	WII				+0.080			−0.48	I	3.9	3½
17	R.	WII				+0.030			−0.68	I	4.4	2½
22	Fn.	EII				+0.020			+0.12	0	---	2½
24	Hd.	EII				+0.013			−0.06	I	3.9	1
1914												
Jan. 28	Fn.	WI				+0.060			−0.31	0	4.5	3
29	Wy.	WI				+0.061			−0.76	0	5.0	4
Feb. 7	Wy.	EI				+0.040			−0.47	I	4.9	3
9	Hd.	EI				+0.056			−0.16	0	---	3
21	Wy.	WI				+0.075			−0.60	I	4.4	2
Mean	1913.16					+0.053			−0.23			
Corr						−0.081			−0.16			

Weisse$_2$ XIII 25

				h	m	s	°	′	″			
1911												
May 17	T.	WII		13	5	22.415	+17	19	42.46	0	---	--
18	Fn.	WII				------			42.05	0	---	--
20	T.	WII				22.428			41.46	0	---	--
22	Fn.	WII				------			41.46	0	---	--
23	Hd.	EII				22.423			42.42	0	6.5	--
25	Fn.	EII				22.377			42.94	0	---	--
1915												
Apr. 19	Fn.	WI				22.389			42.81	0	6.5	2½
24	An.	WI				22.368			42.96	0	6.5	2
May 10	Hd.	EI				22.373			42.47	0	6.0	3
17	Hd.	EI				22.379			42.07	0	6.2	3
Mean	1913.36			13	5	22.394	+17	19	42.31			
	1912.96											
Corr						−0.081			−0.22			

B. D.+39° 2611

				h	m	s	°	′	″			
1917												
Apr. 10	Fn.	WI		13	5	-----	+39	0	46.82	0	6.5	2
13	Fn.	WI				-----			47.08	0	6.5	2½
May 1	Fn.	EI				-----			47.23	0	7.0	3
3	Hd.	EI				-----			47.33	0	6.5	2
Mean	1917.31			13	5	-----	+39	0	47.12			
Corr						-----			−0.27			

17 Canum Venaticorum

				h	m	s	°	′	″			
1913												
Mar. 20	R.	WII		13	5	55.344	+38	58	37.49	0	---	2
21	Fn.	WII				55.303			36.89	0	6.4	3½
28	Fn.	EII				55.356			38.23	0	5.8	1½
30	R.	EII				55.339			37.78	0	6.0	3
1914												
Apr. 21	Hd.	EI				55.346			38.13	0	6.0	2
28	Hd.	EI				55.329			37.90	0	6.0	2
30	Wy.	WI				55.351			37.76	0	6.5	2
May 6	Fn.	WI				55.381			37.91	0	6.5	2
Mean	1913.78			13	5	55.344	+38	58	37.76			
Corr						−0.081			−0.27			

[1] Double; s. fol. component observed.

Groombridge 1965

			h	m	s	°	′	″			
1913											
Feb. 15	R.	WII	13	6	21.48	+62	42	30.48	0	7.0	2½
Mar. 11	R.	EII			21.52			30.60	0	7.0	1½
17	Fn.	WII			21.43			30.71	0	6.7	3
29	R.	EII			21.47			30.61	0	7.0	2
1914											
Feb. 26	Hd.	EI			21.43			30.56	0	---	2½
27	Fn.	EI			21.48			30.59	0	6.5	1½
Mar. 3	Fn.	WI			21.56			31.37	0	6.5	3½
4	Wy.	WI			21.55			30.00	0	6.0	2
Mean	1913.68		13	6	21.490	+62	42	30.62			
Corr					−0.081			−0.33			

Lacaille 5428

			h	m	s	°	′	″			
1913											
Apr. 20	R.	WII	13	6	45.435	−26	4	24.14	0	7.5	2½
25	Fn.	EII			45.366			23.80	0	---	3
30	R.	EII			45.403			24.33	0	7.0	2½
May 19	Hd.	WII			45.367			23.79	0	6.5	3
1914											
Mar. 26	Hd.	EI			45.392			24.25	0	7.0	3½
Apr. 6	Fn.	WI			45.483			24.07	0	7.5	3
9	Fn.	WI			45.345			24.23	0	7.0	3½
13	Fn.	EI			45.384			23.95	0	7.0	3
Mean	1913.80		13	6	45.397	−26	4	24.07			
Corr					−0.081			−0.02			

43 Comæ

			h	m	s	°	′	″			
			13	7	40.281	+28	20	6.32			
1913											
Jan. 25	R.	EII			−0.009			−0.22	I	4.4	2½
Feb. 4	R.	WII			+0.052			−0.56	I	4.4	2½
8	R.	WII			+0.009			−0.37	I	4.4	2½
25	R.	EII			+0.018			−0.39	I	4.4	2
1914											
Mar. 7	Wy.	EI			−0.009			−0.14	0	4.5	2
12	Hd.	WI			+0.027			−0.67	I	4.4	2
13	Fn.	WI			+0.053			−0.20	I	4.4	1½
20	Fn.	EI			−0.049			−0.24	I	3.9	2
Mean	1913.65				+0.012			−0.35			
Corr					−0.081			−0.25			

Groombridge 1974

			h	m	s	°	′	″			
1911											
May 17	T.	WII	13	10	57.45	+73	16	33.33	0	---	--
20	T.	WII			57.30			33.14	0	---	--
23	Hd.	EII			57.42			33.01	0	---	--
24	T.	EII			57.20			-----	0	---	--
25	Fn.	EII			57.36			33.13	0	---	--
1915											
Mar. 30	Wy.	EI			57.27			33.73	0	---	3
Apr. 6	Wy.	EI			57.24			32.93	0	6.5	3
15	Hd.	WI			57.22			33.70	0	6.5	3
17	An.	WI			57.40			32.47	0	7.0	3½
Mean	1913.11		13	10	57.318	+73	16	33.18			
	1913.33										
Corr					−0.081			−0.35			

Groombridge 1974 s. p.

			h	m	s	°	′	″			
1911											
Sept. 20	R.	WII	13	10	57.17	+73	16	32.42	0	7.0	2
30	R.	EII			57.26			32.74	0	7.0	1
Oct. 4	Fn.	EII			57.31			32.32	0	7.0	4
11	Hd.	WII			57.30			33.76	0	7.0	3½
1914											
Oct. 21	An.	EI			-----			31.81	0	---	--
23	Fn.	EI			57.23			32.97	0	7.0	3
Nov. 2	Fn.	WI			57.26			32.19	0	7.5	3
4	Hd.	WI			57.32			33.52	0	---	4
Mean	1913.07		13	10	57.264	+73	16	32.72			
	1913.29										
Corr					−0.081			+0.55			

19 Canum Venaticorum

			h	m	s	°	′	″			
1915											
May 21	Wy.	WI	13	11	29.252	+41	19	-----	0	6.0	3
27	Wy.	WI			29.275			-----	0	---	2½
June 17	Fn.	WI			29.281			-----	0	---	2
1916											
June 2	Hd.	EI			29.215			-----	0	6.0	2
12	*Wy.*	*EI*			*29.239*			-----	*0*	---	*2*
20	*Hd.*	*WI*			*29.232*			-----	*0*	---	*2*
23	*Hd.*	*WI*			*29.198*			-----	*0*	---	*2*
1917											
Apr. 13	Fn.	WI			29.250			-----	0	6.0	2½
May 11	Wy.	WI			29.238			-----	0	6.0	2
14	Wy.	WI			29.263			-----	0	6.5	2½
22	Fn.	WI			29.228			-----	0	---	2½
25	Fn.	WI			29.285			-----	0	6.0	2½
June 22	*Fn.*	*WII*			*29.217*			-----	*0*	---	*2½*
1918											
May 6	Fn.	EII			29.179			-----	0	6.5	2
15	Fn.	WII			29.206			-----	0	---	2
Mean	1916.92		13	11	29.243	+41	19	-----			
Corr					−0.081			-----			

Groombridge 1977

			h	m	s	°	′	″			
1911											
May 15	Fn.	WII	13	11	36.16	+80	56	51.53	0	6.7	--
26	Hd.	EII			35.99			51.92	0	6.0	--
27	T.	EII			36.12			51.68	0	7.0	3
June 1	Fn.	WII			36.39			[53.01][1]	0	---	--
1915											
Apr. 7	An.	EI			36.45			51.68	0	6.0	3
8	Hd.	EI			36.54			51.67	0	6.5	2½
19	Fn.	WI			36.12			51.30	0	7.0	3
24	An.	WI			36.55			50.88	0	7.0	2½
Mean	1913.34		13	11	36.290	+80	56	51.52			
	1913.62										
Corr					−0.081			−0.37			

Groombridge 1977 s. p.

			h	m	s	°	′	″			
1912											
Sept. 12	R.	WII	13	11	36.37	+80	56	50.86	0	7.0	1
14	R.	WII			36.42			51.38	0	---	1½
30	R.	EII			36.28			50.56	0	5.5	3½
Oct. 1	R.	EII			36.36			51.52	0	---	--
1913											
Nov. 3	Fn.	EI			36.17			50.91	0	6.8	4
4	R.	EI			36.45			50.92	0	6.0	3
17	Fn.	WI			36.50			50.47	0	7.0	3
21	R.	WI			36.23			50.75	0	6.0	3½
Mean	1913.30		13	11	36.348	+80	56	50.92			
Corr					−0.081			+0.47			

r Centauri

			h	m	s	°	′	″			
1912											
Apr. 8	Fn.	WII	13	11	53.037	−31	1	48.14	0	5.3	3½
9	Hd.	WII			52.967			48.68	0	5.8	4
11	Fn.	EII			53.038			48.72	0	---	4
19	Hd.	EII			53.000			48.15	0	6.0	4
1915											
Apr. 10	An.	EI			53.065			49.08	0	6.5	3½
13	Fn.	WI			53.055			48.89	0	5.5	3½

[1] Only one bisection; micrometer reading doubtful.

1915			h m s	° ′ ″		
Apr. 14	An.	WI	53.039	48.70	0	--- 3½
May 10	Hd.	EI	53.051	47.05	0	6.5 3
19	Fn.	EI	53.078	48.07	0	5.5 3
Mean	1913.97		13 11 53.037	−31 1 48.39		
Corr			−0.081	+0.05		

Lalande 24645

1913			h m s	° ′ ″		
Feb. 15	R.	WII	13 12 10.266	+20 15 34.28	0	7.0 2½
Mar. 5	Fn.	EII	10.319	34.58	0	7.0 2½
11	R.	EII	10.316	34.93	0	--- 2
17	Fn.	WII	10.278	34.46	0	6.7 2½
1914						
Jan. 28	Fn.	WI	10.308	34.46	0	7.0 3
29	Wy.	WI	10.293	34.45	0	7.0 3½
31	Fn.	WI	10.329	34.06	0	6.5 3
Feb. 7	Wy.	EI	10.292	34.17	0	7.0 2½
26	Hd.	EI	10.291	34.28	0	7.0 2½
Mean	1913.69		13 12 10.299	+20 15 34.41		
Corr			−0.081	−0.23		

Bradley 1760

1912			h m s	° ′ ″		
Apr. 10	R.	WII	13 12 18.451	+9 53 39.52	0	5.5 1½
20	Fn.	WII	18.441	39.61	0	--- 2½
27	R.	EII	18.502	39.42	0	5.5 2
May 1	R.	EII	18.450	39.60	0	5.5 3
1915						
May 14	Fn.	WI	18.361	39.37	0	--- 2½
15	Wy.	WI	18.396	40.58	0	--- ---
17	Hd.	EI	18.408	40.42	0	6.2 3½
June 4	An.	WI	18.389	40.04	0	6.5 3
Mean	1913.84		13 12 18.425	+9 53 39.82		
Corr			−0.081	−0.21		

Weisse$_1$ XIII 160

1913			h m s	° ′ ″		
Apr. 6	R.	WII	13 13 1.628	−8 15 27.78	0	7.5 2
8	R.	WII	1.672	[30.32]	0	7.5 3
21	Hd.	EII	1.641	28.33	0	7.0 2
24	Hd.	EII	1.614	27.78	0	7.5 1
1914						
Mar. 26	Hd.	EI	1.608	28.08	0	7.0 3
Apr. 9	Fn.	WI	1.634	27.87	0	7.0 3
10	Wy.	WI	1.612	28.54	0	7.5 2½
13	Fn.	EI	1.618	27.60	0	7.0 3
Mean	1913.77		13 13 1.628	−8 15 28.00		
	1913.85					
Corr			−0.081	−0.15		

σ Virginis

1912			h m s	° ′ ″		
Apr. 23	Hd.	WII	13 13 3.581	+5 56 38.37	I	4.4 2
May 2	Fn.	EII	3.580	37.76	0	5.1 2
3	Hd.	EII	3.618	37.83	0	--- 2
4	R.	WII	3.578	37.94	0	5.5 1½
1915						
May 21	Wy.	WI	3.618	37.37	I	4.9 3
27	Wy.	WI	3.599	37.64	0	--- 3
June 7	Fn.	EI	3.615	37.79	0	5.0 2
8	Hd.	EI	3.590	38.01	0	6.5 3
9	An.	EI	3.585	37.90	I	5.4 3
Mean	1914.05		13 13 3.596	+5 56 37.85		
Corr			−0.081	−0.19		

20 Canum Venaticorum

			h m s	° ′ ″		
			13 13 30.527	+41 2 46.70		
1913						
Jan. 25	R.	EII	−0.083	+0.01	0	5.0 2½
Feb. 4	R.	WII	−0.049	−0.22	I	4.9 2½
8	R.	WII	−0.068	+0.60	0	5.5 --
25	R.	EII	−0.013	+0.26	I	4.9 2
1914						
Apr. 21	Hd.	EI	−0.064	+1.22	I	4.9 2
23	Wy.	EI	+0.017	+0.17	I	4.9 2½
27	Wy.	EI	−0.025	+0.59	0	5.0 2
30	Wy.	WI	−0.003	−0.67	0	--- 2½
May 2	Fn.	WI	−0.007	−0.98	0	5.0 2½
1915						
June 17	Fn.	WI	−0.062	----	0	--- 2
1916						
June 2	Hd.	EI	−0.035	----	I	4.4 2
12	*Wy.*	*EI*	*−0.012*	----	*I*	--- *2½*
20	*Hd.*	*WI*	*−0.028*	----	*0*	--- *2*
23	*Hd.*	*WI*	*−0.092*	----	*0*	--- *2*
1917						
Apr. 13	Fn.	WI	−0.022	----	0	5.0 2½
May 11	Wy.	WI	−0.038	----	0	5.0 2½
14	Wy.	WI	−0.052	----	0	5.5 2½
22	Fn.	WI	−0.039	----	0	--- 2½
25	Fn.	WI	−0.017	----	0	5.0 2½
June 19	*Fn.*	*WII*	*+0.004*	----	*0*	--- *2½*
22	*Fn.*	*WII*	*−0.082*	----	*0*	--- *2½*
1918						
May 6	Fn.	EII	+0.007	----	0	6.0 2
Mean	1915.36		−0.033	+0.11		
	1913.78					
Corr			−0.081	−0.27		

61 Virginis

1913			h m s	° ′ ″		
Mar. 18	R.	WII	13 13 41.480	−17 48 43.13	I	4.4 3
20	R.	WII	41.442	43.54	0	--- 2½
28	Fn.	EII	41.525	42.73	0	5.0 3
29	R.	EII	41.446	42.61	0	--- 3
1914						
Feb. 27	Fn.	EI	41.409	44.01	0	5.0 2½
Mar. 3	Fn.	WI	41.497	44.16	0	5.0 3½
7	Wy.	EI	41.384	44.00	0	5.5 3
12	Hd.	WI	41.396	43.45	0	5.5 3
Mean	1913.70		13 13 41.447	−17 48 43.45		
Corr			−0.081	−0.09		

γ Hydræ

			h m s	° ′ ″		
			13 14 1.570	−22 41 49.02		
1912						
May 9	Fn.	WII	+0.065	−1.19	I	2.5 3½
19	R.	EII	+0.096	−0.79	I	--- 4
21	Hd.	WII	+0.024	−0.88	I	3.4 3
24	Hd.	EII	+0.088	−1.08	I	2.9 3½
1915						
May 31	Wy	WI	+0.085	+0.67	I	3.4 3
June 4	An.	WI	+0.038	−0.07	I	4.4 3½
7	Fn.	EI	−0.014	+0.38	0	--- 3
8	Hd.	EI	+0.014	+0.42	I	4.4 2½
Mean	1913.90		+0.050	−0.32		
Corr			−0.081	−0.05		

Lalande 24703

1913			h m s	° ′ ″		
Mar. 21	Fn.	WII	13 14 17.612	+4 9 40.15	0	6.8 3½
22	R.	WII	17.545	41.41	0	7.0 2
30	R.	EII	17.504	41.31	0	7.0 2½
Apr. 1	Hd.	EII	17.567	40.96	0	7.0 3

				h	m	s	°	′	″			
1914												
Mar. 13	Fn.	WI				17.585			40.41	0	7.0	2
14	Wy.	WI				17.560			40.73	0	---	3½
23	Hd.	EI				17.527			41.22	0	6.5	3
24	Fn.	EI				17.572			41.28	0	6.5	2½
Apr. 6	Fn.	WI				17.542			40.18	0	7.0	2½
Mean	1913.78			13	14	17.557	+4	9	40.85			
Corr						−0.081			−0.19			

Weisse$_2$ XIII 234

				h	m	s	°	′	″			
1912												
May 25	R.	EII		13	14	55.985	+35	36	2.01	0	5.5	1
26	Hd.	EII				55.963			1.76	0	6.5	2
28	Hd.	WII				56.039			1.99	0	6.0	2
30	Fn.	WII				55.993			1.74	0	6.5	2
1915												
Apr. 14	An.	WI				56.008			2.33	0	7.0	2
May 5	Hd.	EI				56.016			2.37	0	6.5	3
6	Fn.	EI				55.989			2.45	0	5.5	2½
14	Fn.	WI				56.013			2.46	0	---	2½
Mean	1913.87			13	14	56.001	+35	36	2.14			
Corr						−0.081			−0.26			

ι Centauri

				h	m	s	°	′	″			
				13	15	-----	−36	14	16.44			
1911												
May 18	Fn.	WII				-----			−0.4	0	---	--
20	T.	WII				-----			−1.5	0	---	--
24	T.	EII				-----			−0.8	0	---	--
25	Fn.	EII				-----			+1.4	0	---	--
1912												
Jan. 19	Hd.	WII				-----			+0.3	0	---	--
22	R.	EII				-----			−2.8	0	---	--
1913												
Jan. 1	Hd.	WII				-----			−0.7	I	---	4
13	Hd.	WII				-----			+1.0	0	---	4
19	Fn.	EII				-----			0.0	0	---	3½
21	R.	EII				-----			+0.8	0	---	--
May 1	Hd.	EII				-----			0.0	0	---	4
2	Fn.	EII				-----			+0.3	0	---	4½
3	R.	EII				-----			+0.4	I	---	--
5	Hd.	EII				-----			0.0	0	---	3½
8	Hd.	EII				-----			−0.6	0	---	3½
19	Hd.	WII				-----			−0.2	I	---	3½
20	Fn.	WII				-----			−0.2	0	---	3½
1914												
Jan. 21	Fn.	WI				-----			+0.2	0	---	4
Apr. 28	Hd	EI				-----			−0.9	I	---	3½
May 11	Hd.	WI				-----			−0.2	0	---	4
16	Fn.	WI				-----			+0.1	0	---	3½
18	Fn.	WI				-----			−1.1	0	---	3
19	Wy	WI				-----			+0.6	0	---	4
20	Hd	WI				-----			−1.2	0	---	4
21	Fn.	WI				-----			−1.7	0	---	4
23	Hd.	EI				-----			−0.3	0	---	4
25	Fn.	EI				-----			−0.3	0	---	4
26	Wy	EI				-----			−0.8	0	---	4
28	Fn.	EI				-----			−1.1	0	---	3½
29	Hd	EI				-----			−0.7	0	---	3½
June 2	Fn.	EI				-----			+0.2	0	---	3½
3	Wy	EI				-----			−0.9	0	---	4½
8	Fn.	EI				-----			−0.7	0	---	3
1915												
Jan. 15	Hd.	WI				-----			−0.6	I	---	3½
Apr. 6	Wy.	EI				-----			−0.4	0	---	3½
7	An.	EI				-----			+0.7	0	---	--
8	Hd.	EI				-----			+0.7	0	---	3½
May 10	Hd.	EI				-----			+0.5	I	---	3½
15	Wy.	WI				-----			−0.3	0	---	4
19	Fn.	EI				-----			−0.1	I	---	3½
June 10	Fn.	EI				-----			+0.6	0	---	3½
12	An.	WI				-----			0.0	I	---	3½
18	Hd.	WI				-----			+0.1	0	---	3½

				s	″			
1916								
Jan. 8	Fn.	EI		-----	−0.2	0	---	4½
June 2	Hd.	EI		-----	−0.1	0	---	3½
12	Wy.	EI		-----	−0.1	0	---	4
13	Fn.	EI		-----	−0.8	0	---	3½
20	Hd.	WI		-----	−0.4	0	---	3½
23	Hd.	WI		-----	−0.6	0	---	3
26	Hd.	WI		-----	0.0	0	---	3
1917								
May 3	Hd.	EI		-----	0.0	0	---	4
10	Fn.	WI		-----	−0.4	0	---	4
14	Wy.	WI		-----	−0.2	0	---	4½
15	Hd.	WI		-----	+0.6	0	---	4
June 25	Wy.	WII		-----	−0.5	0	---	4
Mean	1914.55			-----	−0.24			
Corr				-----	+0.17			

23 Canum Venaticorum

				h	m	s	°	′	″			
1913												
Apr. 16	Hd.	WII		13	16	17.084	+40	37	21.93	0	5.7	3
17	R.	WII				17.042			21.45	0	6.0	2
25	Fn.	EII				17.138			22.29	0	5.6	1½
30	R.	EII				17.078			21.71	0	5.5	2
1914												
Apr. 10	Wy.	WI				17.144			22.32	0	5.5	2½
17	Wy.	EI				17.107			22.22	0	5.7	2½
21	Hd.	EI				17.075			22.17	0	6.0	2
30	Wy.	WI				17.075			21.92	0	6.0	2½
1915												
Apr. 30	Wy.	EI				17.040			-----	0	---	2½
May 21	Wy.	WI				17.106			-----	0	6.0	2½
27	Wy.	WI				17.021			-----	0	6.0	2
1917												
Apr. 13	Fn.	WI				17.083			-----	0	6.0	2½
May 11	Wy.	WI				17.068			-----	0	---	2½
22	Fn.	WI				17.038			-----	0	---	2½
25	Fn.	WI				17.127			-----	0	6.0	2½
June 19	*Fn.*	*WII*				*17.049*			-----	*0*	---	*2½*
22	*Fn.*	*WII*				*17.050*			-----	*0*	---	*2½*
1918												
May 6	Fn.	EII				17.060			-----	0	6.5	2
15	Fn.	WII				17.043			-----	0	---	2
Mean	1915.45			13	16	17.078	+40	37	22.00			
	1913.80											
Corr						−0.081			−0.27			

Lalande 24812

				h	m	s	°	′	″			
1913												
Feb. 15	R.	WII		13	19	4.870	−20	27	16.33	0	7.5	2½
Mar. 11	R.	EII				4.838			15.70	0	7.0	2
17	Fn.	WII				4.879			15.86	0	7.0	3½
28	Fn.	EII				4.921			15.84	0	7.0	3
1914												
Mar. 24	Fn.	EI				4.897			15.94	0	6.5	3
26	Hd.	EI				4.927			16.00	0	6.5	3
Apr. 3	Fn.	WI				4.909			16.96	0	6.5	3
6	Fn.	WI				4.894			15.90	0	7.0	3
Mean	1913.72			13	19	4.892	−20	27	16.07			
Corr						−0.081			−0.08			

ζ^1 Ursæ Majoris

				h	m	s	°	′	″			
				13	20	18.349	+55	23	42.54			
1913												
Mar. 20	R.	WII				−0.083			+0.05	I	---	2
21	Fn.	WII				−0.038			+0.15	I	---	--
29	R.	EII				−0.064			+0.17	II	2.6	2
30	R.	EII				−0.070			+0.14	II	2.6	2
1914												
Feb. 26	Hd.	EI				−0.050			−0.13	I	2.9	3
27	Fn.	EI				+0.018			+0.37	I	1.9	1½
Mar. 3	Fn.	WI				−0.052			+0.07	I	1.9	3
4	Wy.	WI				+0.024			+0.32	0	---	3
Mean	1913.70					−0.039			+0.14			
Corr						−0.081			−0.30			

α Virginis

h m s 13 20 26.980 ° ′ ″ −10 41 30.38

				s	″	″			
1911									
May	15	Fn.	WII	+0.084		+0.21	II	1.5	--
	17	T.	WII	+0.058		−0.84	I	---	--
	19	Hd.	WII	+0.073		-----	II	2.1	--
	22	Fn.	WII	+0.068		−0.86	I	0.9	--
	23	Hd.	EII	+0.080		−0.14	0	---	--
	24	T.	EII	+0.068		+0.46	II	0.6	--
	25	Fn.	EII	+0.023		−1.88	II	---	--
	26	Hd.	EII	+0.099		−0.13	II	0.6	--
	27	T.	EII	+0.058		−0.92	II	0.1	--
	29	Fn.	WII	+0.064		−0.29	I	---	--
June	1	Fn.	WII	+0.051		−0.85	II	1.7	--
	2	Hd.	WII	+0.031		+0.27	II	1.1	--
	7	T.	WII	+0.042		+0.16	I	---	--
	8	Fn.	WII	+0.076		+0.09	II	2.3	--
	9	Hd.	WII	+0.071		−0.42	II	1.1	2
	11	R.	EII	+0.050		−0.69	II	---	--
	14	T.	EII	+0.041		−0.01	II	0.1	--
	15	*Fn.*	*EII*	*+0.020*	*+0.02*	*+0.02*	*II*	---	*2*
	16	*Hd.*	*EII*	*+0.050*	*−0.59*	*−0.65*	*0*	---	--
	20	*Hd.*	*EII*	*+0.063*	*−0.29*	*−0.35*	*I*	---	--
	28	*T.*	*WII*	*+0.028*	*−0.18*	*−0.22*	*0*	---	--
	29	*Fn.*	*WII*	*+0.003*	*−0.99*	*−0.99*	*0*	---	--
	30	*Hd.*	*WII*	*+0.042*	*−0.17*	*−0.19*	*I*	---	--
July	*1*	*R.*	*WII*	*+0.021*	*−0.86*	*−0.90*	*I*	---	--
	5	*R.*	*EII*	*+0.027*	*−1.45*	*−1.45*	*I*	---	--
	6	*Hd.*	*EII*	-----	*−0.49*	*−0.45*	*0*	---	--
	12	*Fn.*	*WII*	-----	*−1.14*	*−1.22*	*0*	---	--
	13	*Hd.*	*WII*	-----	*−0.84*	*−0.88*	*0*	---	--
	14	*R.*	*WII*	-----	*−0.81*	*−0.87*	*0*	---	--
	19	*Fn.*	*EII*	-----	*−0.37*	*−0.41*	*0*	---	--
	20	*Hd.*	*EII*	-----	*−0.85*	*−0.99*	*0*	---	--
	22	*Fn.*	*EII*	-----	*−0.32*	*−0.28*	*0*	---	*2½*
	27	*Hd.*	*WII*	-----	*−0.55*	*−0.46*	*0*	---	--
	28	*R.*	*WII*	-----	*−0.69*	*−0.69*	*0*	---	--
Aug.	*1*	*R.*	*WII*	-----	*−1.60*	*−1.56*	*0*	---	*5*
	7	*Fn.*	*WII*	*+0.103*	*−1.36*	*−1.36*	*0*	---	--
	8	*R.*	*EII*	*−0.003*	*−1.29*	*−1.36*	*0*	---	--
	9	*Fn.*	*EII*	*+0.030*	*−1.74*	*−1.67*	*0*	---	--
	16	*Fn.*	*EII*	*+0.060*	*−1.56*	*−1.49*	*0*	---	--
	21	*Fn.*	*EII*	*−0.005*	*−0.21*	*−0.01*	*0*	---	--
	22	*R.*	*EII*	*−0.085*	*−0.56*	*−0.38*	*0*	---	--
	28	*Fn.*	*WII*	-----	*−2.05*	*−2.01*	*0*	---	--
Sept.	*1*	*Fn.*	*WII*	*+0.060*	*−1.11*	*−1.00*	*0*	---	--
	2	*R.*	*WII*	*+0.065*	*−1.85*	*−1.74*	*0*	---	--
Nov.	*20*	*R.*	*EII*	-----	*+0.07*	*+0.14*	*0*	---	--
Dec.	*6*	*R.*	*WII*	-----	*−1.05*	*−1.13*	*0*	---	--
	7	*R.*	*WII*	*+0.088*	*−1.97*	*−1.97*	*0*	---	--
	10	*Hd.*	*EII*	*+0.034*	*−0.59*	*−0.50*	*0*	---	--
	18	*R.*	*EII*	*+0.054*	*−0.35*	*−0.35*	*0*	---	--
	19	*R.*	*EII*	-----	*−0.11*	*−0.11*	*0*	---	--
1912									
Jan.	19	Hd.	WII	-----		+0.27	II	1.6	2
	22	R.	EII	-----		−1.20	II	---	5
	24	Hd.	EII	-----		−0.50	II	1.9	3
Feb.	2	Fn.	WII	-----		+0.06	II	1.3	3
	6	Fn.	EII	-----		−0.68	II	1.4	2½
	9	Fn.	EII	-----		+0.22	II	---	3½
	13	Fn.	EII	-----		+0.08	0	---	3½
Apr.	19	Hd.	EII	+0.051		----	II	2.1	2
May	2	Fn.	EII	+0.001		----	II	---	4
	3	Hd.	EII	+0.073		−0.44	II	1.6	2
	4	R.	WII	+0.067		−0.68	II	2.1	3
	9	Fn.	WII	+0.037		----	II	1.0	3
	10	Hd.	WII	+0.065		----	II	1.1	1
	18	Hd.	EII	+0.075		−0.42	II	1.3	2
	19	R.	EII	+0.037		----	II	1.6	3½
	21	Hd.	WII	+0.057		−0.46	II	1.6	2
	24	Hd.	EII	+0.067		----	II	0.9	3
	25	R.	EII	+0.046		----	II	0.9	1
	26	Hd.	EII	+0.016		----	II	1.1	3
	27	Fn.	EII	+0.075		−0.94	II	1.3	3
	28	Hd.	WII	+0.036		−0.44	II	1.1	2
	30	Fn.	WII	+0.039		−0.71	I	---	3
	31	Hd.	WII	+0.029		−0.80	II	1.1	2
1912									
June	1	R.	WII	+0.053		−0.69	II	1.1	1
	3	Fn.	WII	+0.032		−0.82	II	1.3	2½
	4	Hd.	EII	+0.080		−1.29	I	---	3½
	5	R.	EII	+0.096		−0.20	II	---	3½
	8	R.	EII	+0.057		−0.39	II	1.1	2½
July	*25*	*R.*	*WII*	-----	*−1.03*	*−1.03*	*0*	---	*4*
	27	*Fn.*	*WII*	*+0.037*	*−1.35*	*−1.35*	*0*	---	*3*
	28	*Fn.*	*WII*	*−0.010*	*−0.70*	*−0.59*	*0*	---	*3*
Aug.	*5*	*R.*	*EII*	-----	*−0.17*	*−0.03*	*0*	---	*5*
	10	*Fn.*	*EII*	-----	*−0.96*	*−0.96*	*0*	---	*3½*
	15	*Fn.*	*WII*	-----	*−1.75*	*−1.59*	*0*	---	*3½*
	16	*R.*	*WII*	*+0.037*	*−0.87*	*−0.67*	*0*	---	*5*
	24	*Fn.*	*WII*	*+0.073*	*−0.84*	*−0.73*	*0*	---	*3½*
	25	*R.*	*WII*	*+0.048*	*−1.06*	*−0.92*	*0*	---	*5*
	27	*Fn.*	*WII*	-----	*−0.51*	*−0.37*	*0*	---	*4*
	30	*R.*	*WII*	*+0.008*	*−0.95*	*−0.70*	*0*	---	*5*
Sept.	*1*	*R.*	*WII*	*+0.144*	*−1.78*	*−1.58*	*0*	---	*5*
	8	*Hd.*	*EII*	-----	*−0.82*	*−0.62*	*0*	---	*3½*
	9	*R.*	*EII*	-----	*−0.60*	*−0.28*	*0*	---	*5*
	10	*Hd.*	*EII*	*+0.113*	*−1.05*	*−0.89*	*0*	---	*4*
	28	*R.*	*EII*	*+0.066*	*+1.06*	*+1.52*	*0*	---	--
Nov.	*10*	*R.*	*EII*	*+0.031*	*+0.63*	*+0.92*	*0*	---	*5*
	15	*Hd.*	*EII*	*+0.036*	*+0.25*	*+0.36*	*0*	---	*3½*
	20	*R.*	*EII*	*+0.007*	*−0.15*	*+0.17*	*0*	---	--
	22	*Hd.*	*EII*	*+0.019*	*−0.53*	*−0.55*	*0*	---	*3*
	24	*Fn.*	*WII*	*+0.073*	*−0.72*	*−0.72*	*0*	---	*3½*
	25	*Hd.*	*WII*	*+0.037*	*−0.10*	*−0.01*	*0*	---	*3*
	28	*Fn.*	*WII*	*+0.089*	*−0.51*	*−0.22*	*0*	---	*4*
	29	*Hd.*	*WII*	*+0.067*	*−0.85*	*−1.01*	*0*	---	*3½*
Dec.	*8*	*Fn.*	*WII*	*+0.086*	*[+2.57][1]*	*[+2.71][1]*	*0*	---	*3½*
	9	*R.*	*WII*	-----	*−0.30*	*−0.23*	*I*	---	*2½*
	11	*R.*	*EII*	*−0.010*	*−0.54*	*−0.45*	*0*	---	*3½*
	13	*R.*	*EII*	*+0.065*	*+0.22*	*+0.31*	*I*	---	*3½*
	16	*R.*	*EII*	-----	*−0.59*	*−0.73*	*II*	---	*3*
	19	*R.*	*EII*	*+0.047*	*+0.10*	*+0.15*	*0*	---	*3*
	21	*R.*	*EII*	*+0.037*	*−0.32*	*−0.30*	*I*	---	*2½*
	22	*R.*	*WII*	*+0.066*	*−0.65*	*−0.79*	*II*	---	*2½*
	25	*R.*	*WII*	-----	*−0.64*	*−0.39*	*II*	---	*2½*
	28	R.	WII	+0.041		−0.40	II	1.1	1½
1913									
Jan.	3	R.	WII	-----		−0.90	II	---	3½
	8	Hd.	WII	-----		+0.35	II	1.1	2
	12	Fn.	WII	-----		+0.05	II	1.6	2½
	13	Hd.	WII	-----		−0.16	II	1.1	3
	14	R.	WII	+0.107		−0.60	II	1.1	2
	18	R.	EII	+0.024		−0.37	II	1.6	2
	19	Fn.	EII	-----		−0.84	II	1.8	2½
	21	R.	EII	+0.039		+0.30	II	2.1	3
	25	R.	EII	−0.015		−0.78	II	1.1	2½
	27	Hd.	EII	-----		−0.93	II	1.1	2
	29	R.	WII	+0.081		−0.60	II	2.1	2½
Feb.	4	R.	WII	+0.054		−0.82	II	1.6	4
	7	R.	WII	+0.039		−1.75	I	---	5
	8	R.	WII	+0.021		−0.43	II	1.6	3
	13	R.	WII	+0.068		−1.10	II	1.6	3
	14	R.	WII	+0.006		−0.93	II	2.1	3
	25	R.	EII	+0.034		----	I	---	2
Mar.	18	R.	WII	+0.063		----	II	1.1	2
	22	R.	WII	+0.078		----	II	2.1	2
	27	R.	WII	+0.034		−0.05	II	1.6	2
Apr.	2	Fn.	EII	+0.061		−0.40	I	---	3½
	3	R.	EII	+0.053		−1.75	I	---	4
	6	R.	WII	+0.095		----	II	---	--
	8	R.	WII	+0.066		----	II	1.6	2½
	17	R.	WII	+0.058		−0.80	II	1.6	2½
	20	R.	WII	+0.054		----	II	1.1	2
May	3	R.	EII	+0.078		−0.14	II	1.6	2
	5	Hd.	EII	−0.014		−0.48	II	1.6	2½
	6	Fn.	EII	+0.022		−0.11	0	---	2½
	7	R.	EII	-----		−0.24	II	2.1	3
	8	Hd.	EII	+0.029		−0.46	II	2.6	3
	10	R.	EII	+0.007		−0.51	II	1.6	2½
	12	Hd.	WII	+0.046		----	I	---	2
	15	Hd.	WII	+0.063		+0.41	II	1.6	3
	19	Hd.	WII	+0.045		+0.18	II	1.1	2½
	20	Fn.	WII	+0.088		+0.54	II	1.6	2½
	24	R.	WII	+0.042		+0.12	II	1.1	3
	28	R.	WII	+0.039		+0.21	II	1.1	3½

[1] Burning leaves south of transit house.

1913				s	"	"			
May	29	Hd.	WII	+0.061		−0.37	I	---	3
	31	R.	WII	+0.079		−0.48	II	1.1	3
June	2	Hd.	WII	+0.050		−0.10	II	1.1	2
	4	R.	WII	+0.063		+0.54	I	---	4½
	5	Hd.	WII	+0.063		−0.02	II	1.1	2
	6	Fn.	WII	+0.049		−0.77	II	1.1	2
	9	Hd.	WII	+0.046		+0.05	II	1.1	3
	10	R.	WII	+0.047		−0.22	II	1.6	2
	12	Hd.	EII	+0.024		−0.87	II	1.1	3
	13	Fn.	EII	+0.031		−0.83	I	---	2
	17	*Fn.*	*EII*	*+0.010*	*−0.92*	*−0.94*	*I*	---	*3*
	18	*R.*	*EII*	*−0.003*	*−1.05*	*−1.01*	*II*	---	2½
	19	*Hd.*	*EII*	*+0.019*	*−0.80*	*−0.76*	*II*	---	*2*
	20	*Fn.*	*EII*	*+0.037*	*−1.56*	*−1.49*	*I*	---	2½
	30	*Hd.*	*EII*	*+0.005*	*−0.97*	*−0.93*	*II*	---	*2*
July	*1*	*Fn.*	*EII*	*+0.029*	*−1.71*	*−1.71*	*I*	---	*3*
	7	*Hd.*	*WII*	*+0.045*	*−0.71*	*−0.68*	*I*	---	*3*
	8	*Fn.*	*WII*	*+0.015*	*−0.88*	*−0.90*	*0*	---	2½
	10	*Fn.*	*WII*	*+0.047*	*+0.25*	*+0.18*	*0*	---	2½
Nov.	*5*	*Fn.*	*EI*	*+0.019*	*+0.52*	*+0.91*	*0*	---	*4*
	6	*R.*	*EI*	*+0.096*	*+0.63*	*+0.98*	*0*	---	*5*
	11	*Hd.*	*WI*	*+0.081*	*−0.46*	*−0.26*	*0*	---	*4*
	17	*R.*	*WI*	-----	*−0.35*	*+0.02*	*0*	---	--
	18	*Hd.*	*WI*	*+0.022*	*−0.10*	*+0.06*	*0*	---	*3*
	20	*R.*	*WI*	*+0.033*	*−0.54*	*−0.47*	*0*	---	--
	21	*Hd.*	*WI*	*−0.019*	*−0.02*	*+0.07*	*0*	---	3½
	23	*Fn.*	*WI*	*+0.018*	*−0.72*	*−0.68*	*0*	---	*4*
	24	*R.*	*EI*	*+0.101*	*+1.03*	*+1.18*	*I*	---	--
Dec.	*3*	*Fn.*	*EI*	*+0.085*	*−0.95*	*−0.95*	*0*	---	3½
	4	*Fn.*	*EI*	*+0 095*	*−0.63*	*−0.67*	*0*	---	3½
	5	*Hd.*	*EI*	*+0.048*	*−0.08*	*−0.08*	*0*	---	*3*
	8	*R.*	*EI*	*+0.083*	*−0.84*	*−0.84*	*I*	---	--
	11	*R.*	*EI*	*+0.082*	*−0.48*	*−0.39*	*I*	---	--
	12	*Hd.*	*EI*	*+0.034*	*−0.59*	*−0.70*	*I*	---	*3*
	14	*Fn.*	*WI*	*+0.035*	*−0.85*	*−0.71*	*0*	---	*3*
1914									
Jan.	21	Fn.	WI	-----		−0.20	I	1.4	3
	26	Wy.	WI	-----		−0.83	I	2.4	3½
	28	Fn.	WI	+0.047		−0.61	I	1.4	3½
	29	Wy.	WI	+0.006		−0.88	I	---	3½
	31	Fn.	WI	+0.013		−0.45	I	---	3½
Feb.	2	Hd.	WI	+0.069		−1.10	I	---	3
	3	Fn.	EI	+0.073		−0.93	I	---	3½
	7	Wy.	EI	+0.082		−0.68	I	1.9	3
	9	Hd.	EI	+0.037		−0.89	0	---	3½
	21	Wy.	WI	+0.104		−1.33	I	---	2
Mar.	14	Wy.	WI	+0.073		−0.79	I	---	3½
	23	Hd.	EI	+0.044		----	II	1.1	3
Apr.	13	Fn.	EI	+0.021		−0.22	I	---	3
	17	Wy.	EI	+0.049		−0.20	II	1.6	2½
	21	Hd.	EI	+0.038		−0.45	II	2.1	2
	23	Wy.	EI	+0.047		----	II	2.1	2½
	27	Wy.	EI	+0.066		----	II	1.6	2½
	28	Hd.	EI	+0.061		−0.33	0	---	2
	30	Wy.	WI	+0.055		−0.44	I	---	3
May	2	Fn.	WI	−0.008		−0.75	II	0.1	3½
	5	Hd.	WI	+0.050		−0.34	II	1.1	3
	6	Fn.	WI	+0.059		−0.69	I	2.4	3
	11	Hd.	WI	+0.022		−0.66	II	1.6	2½
	15	Wy.	WI	+0.043		−0.81	I	---	3
	16	Fn.	WI	+0.038		−0.77	I	1.9	2½
	18	Fn.	WI	+0.045		−0.49	II	1.6	2½
	19	Wy.	WI	+0.058		−0.56	II	1.6	3
	20	Hd.	WI	+0.037		−1.15	II	---	3
	21	Fn.	WI	+0.017		−1.32	I	1.9	3½
	22	Wy.	EI	+0.026		−1.14	I	---	3
	23	Hd.	EI	+0.035		−0.12	II	2.1	3
	25	Fn.	EI	-----		−0.54	I	---	2
	26	Wy.	EI	+0.019		−0.82	II	1.6	3
	28	Fn.	EI	+0.011		−0.47	I	---	2½
	29	Hd.	EI	+0.051		−0.35	I	---	3
June	2	Fn.	EI	+0.067		+0.01	II	1.6	2½
	3	Wy.	EI	-----		−0.55	II	---	3
	5	Fn.	EI	+0.061		−0.71	II	1.6	2½
	6	Wy.	EI	+0.063		−0.05	II	---	3
	8	Fn.	EI	+0.027		−0.49	I	---	2½
	9	Wy.	EI	+0.058		−0.49	I	1.9	3
	11	Fn.	EI	+0.037		−0.28	I	---	2½

1914				s	"	"			
June	13	Wy.	EI	+0.031		−0.41	II	1.6	3
	15	*Fn.*	*EI*	*+0.025*	*−0.30*	*−0.25*	*0*	---	*3*
	16	*Hd.*	*EI*	*+0.053*	*−0.36*	*−0.43*	*II*	---	*2*
	17	*Wy.*	*EI*	*+0.023*	*+0.43*	*+0.50*	*II*	---	2½
	20	*Wy.*	*WI*	*+0.004*	*−0.03*	*+0.04*	*II*	---	*3*
	24	*Wy.*	*WI*	*+0.041*	*+1.49*	*+1.53*	*II*	---	*3*
	26	*Wy.*	*WI*	*+0.022*	*−1.06*	*−1.00*	*II*	---	*3*
	29	*Hd.*	*WI*	*+0.017*	*−0.77*	*−0.71*	*I*	---	*3*
	30	*Wy.*	*WI*	-----	*−0.69*	*−0.67*	*I*	---	*3*
July	*2*	*Hd.*	*WI*	*+0.009*	*−0.84*	*−0.99*	*I*	---	2½
	7	*Fn.*	*WI*	-----	*−1.11*	*−1.11*	*0*	---	2½
	8	*Hd.*	*WI*	-----	*−0.95*	*−1.03*	*I*	---	2½
	15	*Fn.*	*WI*	-----	*−0.90*	*−0.90*	*0*	---	3½
	18	*Fn.*	*EI*	-----	*+0.08*	*+0.12*	*0*	---	*3*
	21	*Fn.*	*EI*	-----	*−0.04*	*−0.08*	*0*	---	*3*
	30	*Fn.*	*EI*	-----	*−0.65*	*−0.56*	*0*	---	3½
Aug.	*1*	*Fn.*	*EI*	*+0.063*	*−0.59*	*−0.59*	*0*	---	2½
	3	*Wy.*	*EI*	-----	*−0.54*	*−0.45*	*0*	---	3½
	6	*Fn.*	*EI*	*−0.010*	*−0.65*	*−0.68*	*0*	---	*3*
	7	*Wy.*	*EI*	-----	*−0.85*	*−0.83*	*0*	---	3½
	13	*Fn.*	*WI*	-----	*−1.36*	*−1.17*	*0*	---	3½
	16	*Wy.*	*WI*	-----	*−0.53*	*−0.53*	*0*	---	3½
	18	*Fn.*	*WI*	*+0.076*	*−0.87*	*−0.87*	*0*	---	3½
	19	*Wy.*	*WI*	*−0.024*	*−1.07*	*−1.05*	*0*	---	*3*
	20	*Wy.*	*WI*	-----	*−1.25*	*−1.25*	*0*	---	3½
	22	*Fn.*	*WI*	-----	*−1.16*	*−0.95*	*0*	---	*4*
	23	*An.*	*WI*	*−0.029*	*−0.21*	*−0.13*	*0*	---	*3*
	31	*Fn.*	*WI*	*−0.031*	*−1.41*	*−1.15*	*0*	---	3½
Sept.	*2*	*Fn.*	*WI*	-----	*−0.98*	*−0.89*	*0*	---	3½
	5	*Wy.*	*WI*	*+0.091*	*+0.28*	*+0.50*	*0*	---	*4*
	9	*Fn.*	*EI*	*+0.035*	*−0.18*	*−0.03*	*0*	---	*4*
	10	*An.*	*EI*	*+0.195*	*+0.34*	*+0.64*	*0*	---	3½
	20	*Wy.*	*EI*	*+0.076*	*+0.18*	*+0.29*	*0*	---	4½
	21	*Hd.*	*EI*	*−0.030*	*−0.40*	*−0.03*	*0*	---	3½
	22	*Wy.*	*EI*	*+0.133*	*−0.30*	*+0.03*	*0*	---	3½
	23	*An.*	*EI*	*+0.195*	*−0.81*	*−0.53*	*0*	---	4½
	27	*Wy.*	*WI*	-----	*−0.67*	*−0.40*	*0*	---	*4*
	29	*Wy.*	*WI*	-----	*−2.00*	*−1.58*	*0*	---	*4*
	30	*An.*	*WI*	*+0.080*	*−0.86*	*−0.84*	*0*	---	*4*
Oct.	*1*	*Hd.*	*WI*	*+0.049*	*−0.75*	*−0.41*	*0*	---	*5*
	2	*Wy.*	*WI*	*+0.186*	*−0.48*	*+0.05*	*0*	---	4½
	5	*Wy.*	*WI*	*+0.195*	*−1.10*	*−0.72*	*0*	---	3½
	29	*Hd.*	*EI*	*+0.013*	*−0.89*	*−0.67*	*0*	---	*4*
	30	*An.*	*EI*	*+0.013*	*−1.15*	*−0.90*	*0*	---	*4*
Nov.	*4*	*Fn.*	*WI*	*+0.061*	----	----	*0*	---	*4*
	6	*Hd.*	*WI*	*+0.092*	*−0.16*	*+0.06*	*0*	---	*3*
	9	*Fn.*	*WI*	*+0.119*	*−1.92*	*−1.77*	*0*	---	*4*
	11	*Hd.*	*WI*	-----	*+0.54*	*+0.64*	*0*	---	3½
	17	*Fn.*	*EI*	*+0.014*	*−0.35*	*−0.25*	*0*	---	3½
	19	*Wy.*	*EI*	*−0.021*	*−0.45*	*−0.35*	*0*	---	3½
	20	*Fn.*	*EI*	*+0.053*	*−1.35*	*−1.18*	*0*	---	3½
	22	*Fn.*	*EI*	*+0.064*	*−0.98*	*−0.88*	*0*	---	3½
	23	*Hd.*	*EI*	*+0.003*	*+0.52*	*+0.71*	*I*	---	*3*
	27	*Wy.*	*EI*	*+0.050*	*+0.32*	*+0.47*	*0*	---	3½
Dec.	*16*	*Fn.*	*WI*	*+0.068*	*−0.23*	*−0.20*	*0*	---	2½
	22	*Fn.*	*WI*	*+0.081*	*+0.08*	*−0.06*	*I*	---	3½
	27	Wy.	WI	+0.112		−2.21	II	2.1	3½
1915									
Jan.	4	An.	EI	+0.030		−1.18	II	2.6	3
	7	An.	EI	+0.066		−1.10	II	2.6	2½
	9	Wy.	EI	−0.023		−0.72	I	2.4	3
	10	Fn.	WI	-----		−0.43	0	---	3
	13	Fn.	WI	-----		−0.81	I	2.4	3
	14	An.	WI	+0.062		−0.71	II	3.1	3½
	15	Hd.	WI	-----		−1.12	II	1.1	3
	19	Hd.	EI	-----		−0.21	II	2.1	2½
	20	Wy.	EI	+0.035		−0.24	I	1.9	3
	21	Fn.	EI	-----		−0.58	II	0.6	3½
	28	Wy.	EI	+0.034		−0.96	II	2.6	3½
Mar.	29	Fn.	EI	+0.057		----	0	---	3½
Apr.	19	Fn.	WI	+0.037		−1.12	I	1.9	3
	24	An.	WI	+0.050		----	II	---	2½
	26	Fn.	EI	+0.052		----	I	---	3
May	4	Wy.	EI	+0.051		−0.77	II	1.6	3
	5	Hd.	EI	+0.048		----	I	---	3
	6	Fn.	EI	+0.087		----	I	2.4	3
	8	Hd.	EI	+0.074		----	II	1.1	3
	10	Hd.	EI	+0.028		−0.01	II	2.1	2

1915								
May	11	Fn.	EI	+0.066		0	---	2½
	14	Fn.	WI	+0.048		I	---	3
	15	Wy.	WI	+0.039	+0.53	II	1.6	3
	17	Hd.	EI	+0.004		II	2.1	3
	19	Fn.	EI	+0.030	+0.60	II	1.1	3
	21	Wy.	WI	+0.074	−0.46	II	2.1	3
	25	Fn.	WI	+0.037	−0.48	I	---	2½
	27	Wy.	WI	+0.026	−1.14	I	---	3
June	4	An.	WI	+0.076		II	---	2½
	5	Hd.	WI	-----	−0.19	0	---	3
	7	Fn.	EI	+0.033	−0.80	I	2.9	3
	8	Hd.	EI	−0.005	−0.31	II	2.1	2½
	9	An.	EI	+0.003	+0.04	II	2.1	3
	10	Fn.	EI	+0.039	−0.43	II	1.6	2½
	12	An.	WI	+0.052	−1.64	II	---	2½
	17	*Fn.*	*WI*	*+0.029*	*−0.21*	*−0.16*	*I*	--- *3*
	18	*Hd.*	*WI*	*+0.090*	*−0.21*	*−0.15*	*II*	--- 2½
	22	*Wy.*	*EI*	*−0.013*	*+0.37*	*+0.43*	*0*	--- 3½
	23	*An.*	*EI*	-----	*−0.22*	*−0.17*	*II*	--- *3*
	24	*Fn.*	*EI*	*+0.012*	*+0.88*	*+0.74*	*I*	--- 2½
	25	*Wy.*	*EI*	*+0.043*	*−0.04*	*−0.02*	*II*	--- *3*
	27	*Hd.*	*EI*	*+0.010*	*−0.13*	*−0.20*	*II*	--- 2½
	28	*Wy.*	*EI*	*+0.019*	*−0.43*	*−0.43*	*II*	--- *3*
July	*5*	*Wy.*	*WI*	-----	*−1.16*	*−1.11*	*II*	--- 3½
	6	*Hd.*	*WI*	-----	*−0.97*	*−1.11*	*I*	--- 3½
	9	*Hd.*	*WI*	-- --	*+0.18*	*+0.08*	*I*	--- *2*
	12	*An.*	*WI*	-----	*−0.28*	*−0.37*	*I*	--- *3*
	13	*Hd.*	*WI*	*+0.063*	*−0.36*	*−0.40*	*0*	--- *3*
	14	*Fn.*	*WI*	*+0.067*	*−0.59*	*−0.57*	*0*	--- *3*
	22	*Hd.*	*EI*	-----	*−0.21*	*−0.09*	*0*	--- 3½
	23	*An.*	*EI*	-----	*+0.01*	*+0.09*	*0*	--- *3*
	24	*Fn.*	*EI*	-----	*+0.15*	*+0.26*	*0*	--- 3½
	27	*An.*	*EI*	-----	*−0.81*	*−0.73*	*I*	--- *3*
	30	*An.*	*EI*	-----	*−0.84*	*−0.67*	*I*	--- 3½
	31	*Fn.*	*EI*	-----	*−0.16*	*−0.14*	*0*	--- 3½
Aug.	*4*	*Fn.*	*EI*	-----	*−0.47*	*−0.42*	*0*	--- *3*
	7	*An.*	*EI*	*+0.046*	*−0.49*	*−0.39*	*I*	--- 3½
	13	*Fn.*	*EI*	*+0.131*	*−0.81*	*−0.68*	*0*	--- *3*
	14	*An.*	*EI*	-----	*−0.42*	*−0.19*	*0*	--- *3*
	19	*Wy.*	*WI*	*+0.031*	*−0.27*	*−0.06*	*0*	--- *4*
	21	*Fn.*	*WI*	-----	*−0.16*	*−0.20*	*0*	--- 3½
	23	*Hd.*	*WI*	-----	*−0.16*	*−0.01*	*0*	--- 3½
	25	*Hd.*	*WI*	-----	*−0.87*	*−0.72*	*0*	--- *3*
	26	*Wy.*	*WI*	*0.000*	*−0.46*	*−0.06*	*0*	--- 3½
	30	*Wy.*	*WI*	-----	*−1.30*	*−1.11*	*0*	--- 3½
	31	*Hd.*	*WI*	-----	*−0.53*	*−0.31*	*0*	--- *4*
Sept.	*8*	*Wy.*	*WI*	*+0.050*	*−1.10*	*−0.74*	*0*	--- *4*
	10	*Wy.*	*WI*	*+0.048*	*−1.00*	*−0.80*	*0*	--- 3½
	11	*Wy.*	*EI*	-----	*−0.24*	*+0.01*	*0*	--- *4*
	13	*Hd.*	*EI*	*+0.012*	*−1.35*	*−1.04*	*0*	--- 3½
	14	*Wy.*	*EI*	*−0.015*	*−0.65*	*−0.50*	*0*	--- 3½
	15	*Hd.*	*EI*	*+0.132*	*−0.95*	*−0.79*	*0*	--- 3½
	16	*Wy.*	*EI*	*−0.039*	*−0.80*	*−0.59*	*0*	--- 3½
	17	*Hd.*	*EI*	-----	*+0.31*	*+0.61*	*0*	--- 3½
	22	*Hd.*	*EI*	*+0.068*	*−1.35*	*−1.14*	*0*	--- *4*
	23	*Hd.*	*EI*	*+0.092*	*−0.37*	*−0.12*	*0*	--- 3½
	24	*Wy.*	*EI*	*+0.109*	*−0.18*	*+0.20*	*0*	--- *4*
Oct.	*4*	*Wy.*	*WI*	*+0.012*	*−1.02*	*−1.02*	*0*	--- *4*
	11	*Fn.*	*WI*	*+0.035*	*−0.32*	*+0.02*	*0*	--- *4*
	12	*Wy.*	*WI*	*+0.072*	*−0.86*	*−0.49*	*0*	--- *4*
	26	*Wy.*	*WI*	*+0.042*	*−0.40*	*−0.25*	*0*	--- 4½
Nov.	*4*	*Wy.*	*EI*	*+0.110*	*−0.44*	*−0.31*	*0*	--- *4*
	5	*Hd.*	*EI*	*+0.013*	*−0.31*	*−0.14*	*0*	--- 3½
	10	*Wy.*	*WI*	-----	*−0.47*	*−0.18*	*0*	--- 3½
	12	*Fn.*	*WI*	*+0.060*	*−0.46*	*−0.42*	*0*	--- 3½
	16	*Wy.*	*WI*	*+0.042*	*−0.22*	*−0.07*	*0*	--- 3½
	17	*Hd.*	*WI*	-----	*−0.14*	*+0.11*	*0*	--- *3*
	19	*Wy.*	*EI*	*+0.068*	*+0.21*	*+0.32*	*0*	--- 3½
	21	*Fn.*	*EI*	*+0.070*	*+0.33*	*+0.46*	*0*	--- *4*
	23	*Hd.*	*EI*	*+0.085*	*−0.09*	*−0.01*	*0*	--- *3*
	25	*Wy.*	*EI*	*+0.022*	*−0.78*	*−0.56*	*0*	--- *3*
	29	*Fn.*	*EI*	*+0.012*	*−0.01*	*+0.10*	*0*	--- 3½
	30	*Wy.*	*EI*	-----	*−0.22*	*−0.14*	*I*	--- 3½
Dec.	*2*	*Fn.*	*EI*	*+0.064*	*−0.87*	*−0.81*	*0*	--- 3½
	3	*Hd.*	*EI*	*+0.069*	*−0.29*	*−0.26*	*I*	--- *2*
	6	*Wy.*	*WI*	*+0.057*	*−1.26*	*−1.22*	*0*	--- 3½
	9	*Wy.*	*WI*	*+0.023*	*−1.40*	*−1.39*	*0*	--- 3½

1915								
Dec.	*10*	*Fn.*	*WI*	-----	*−1.03*	*−1.03*	*I*	--- *3*
	14	*Fn.*	*WI*	*+0.105*	*−1.28*	*−1.22*	*0*	--- *3*
1916								
Jan.	3	Wy.	EI	+0.011		−0.64	II	1.6 3
	7	Wy.	EI	+0.048		−0.63	II	1.6 3
	8	Fn.	EI	+0.053		+0.11	II	1.6 3
	14	Hd.	EI	+0.064		+0.10	II	2.6 2½
	20	Wy.	EI	+0.031		−0.38	II	2.1 3
	23	Fn.	EI	+0.059		+0.06	II	2.1 3
Feb.	9	Hd.	WI	+0.086		−0.99	I	--- 3
	15	Hd.	WI	+0.086		−0.83	II	2.1 3
	29	Hd.	WI	+0.042		−1.22	II	2.6 3
Mar.	3	Hd.	WI	+0.074		−0.10	II	2.1 3
	4	Wy.	WI	+0.098		−0.44	I	2.4 4
	11	Wy.	WI	+0.095		−0.20	II	1.6 2½
June	2	Hd.	EI	+0.043		+0.01	II	2.6 2½
	12	Wy.	EI	+0.079		−0.16	II	1.6 2½
	13	Fn.	EI	+0.003		−0.59	I	1.9 3
	17	*Wy.*	*WI*	*0.000*	*−0.05*	*−0.03*	*II*	--- *3*
	20	*Hd.*	*WI*	*+0.020*	*−0.87*	*−0.87*	*II*	--- *3*
	22	*Fn.*	*WI*	*+0.052*	*−0.61*	*−0.57*	*I*	--- 2½
	23	*Hd.*	*WI*	*−0.001*	*+0.41*	*+0.28*	*II*	--- *2*
	26	*Hd.*	*WI*	*+0.017*	*−0.59*	*−0.58*	*I*	--- 2½
	27	*Wy.*	*WI*	*+0.061*	*−0.87*	*−0.86*	*II*	--- *3*
	29	*Hd.*	*WI*	*+0.034*	*−1.18*	*−1.18*	*I*	--- *2*
July	*6*	*Wy.*	*EI*	*+0.070*	*−0.16*	*−0.25*	*I*	--- 3½
	7	*Fn.*	*EI*	*+0.053*	*−0.28*	*−0.33*	*0*	--- 2½
	11	*Fn.*	*EI*	*+0.029*	*−0.64*	*−0.66*	*0*	--- 3½
	13	*Hd.*	*EI*	*+0.042*	*−1.60*	*−1.47*	*I*	--- *3*
	14	*Fn.*	*EI*	*+0.052*	-----	-----	*0*	--- 3½
	18	*Wy.*	*EI*	*+0.026*	*−0.37*	*−0.42*	*0*	--- 3½
Aug.	*2*	*Hd.*	*WI*	*+0.078*	*−0.61*	*−0.74*	*I*	--- *3*
	3	*Hd.*	*WI*	*+0.073*	*−0.61*	*−0.67*	*I*	--- 3½
	14	*Fn.*	*EI*	*−0.017*	*−0.19*	*+0.05*	*0*	--- *3*
	17	*Fn.*	*EI*	*+0.063*	*−0.42*	*−0.29*	*0*	--- 3½
	22	*Fn.*	*EI*	*+0.040*	*−0.92*	*−0.68*	*0*	--- 3½
	24	*Wy.*	*WI*	*+0.008*	*−0.98*	*−0.74*	*0*	--- 3½
	25	*Fn.*	*WI*	*−0.063*	*+0.54*	*+0.75*	*0*	--- 3½
Sept.	*3*	*Fn.*	*WI*	*+0.026*	*−0.52*	*−0.21*	*0*	--- *4*
	5	*Wy.*	*WI*	*+0.041*	*−1.81*	*−1.75*	*0*	--- 3½
	11	*Hd.*	*WI*	*+0.088*	*−0.71*	*−0.42*	*0*	--- 3½
	18	*Wy.*	*EI*	*+0.020*	*−1.61*	*−1.55*	*0*	--- 3½
	19	*Hd.*	*EI*	*−0.026*	*−0.71*	*−0.47*	*0*	--- 3½
	20	*Wy.*	*EI*	*+0.059*	*−1.11*	*−1.04*	*0*	--- 3½
	22	*Hd.*	*EI*	*+0.057*	*−0.76*	*−0.57*	*0*	--- *3*
Oct.	*25*	*Wy.*	*EI*	*+0.077*	*−0.23*	*+0.03*	*0*	--- 3½
	26	*Hd.*	*EI*	*+0.054*	*−0.58*	*−0.25*	*0*	--- 3½
Nov.	*1*	*Hd.*	*EI*	*+0.088*	*−0.24*	*+0.02*	*0*	--- 3½
	2	*Fn.*	*EI*	*+0.062*	*+0.10*	*+0.25*	*0*	--- *4*
	6	*Wy.*	*EI*	*+0.048*	*−1.11*	*−0.91*	*0*	--- 3½
	8	*Wy.*	*EI*	*−0.012*	*+0.05*	*+0.14*	*0*	--- *4*
	15	*Wy.*	*WI*	*+0.094*	*−0.77*	*−0.65*	*0*	--- 3½
	16	*Hd.*	*WI*	*+0.189*	*−1.72*	*−1.59*	*0*	--- 3½
	19	*Fn.*	*WI*	*+0.115*	*−0.43*	*−0.37*	*0*	--- 3½
Dec.	*25*	*Fn.*	*WI*	*+0.040*	*−0.95*	*−1.03*	*I*	--- *3*
1917								
Apr.	9	Hd.	WI	+0.094		−0.78	II	2.1 3
	10	Fn.	WI	+0.047		−2.20	I	1.9 3½
	13	Fn.	WI	+0.062		−0.80	I	1.4 3
	16	Fn.	WI	+0.050		−2.18	II	2.1 3
	17	Wy.	WI	+0.036		−0.34	I	--- 3
May	3	Hd.	EI	+0.061		−0.30	II	1.6 2
	10	Fn.	WI	+0.054		−0.07	I	1.9 3
	11	Wy.	WI	+0.036		−0.87	I	--- 3½
	14	Wy.	WI	+0.034		−0.36	II	2.1 3
	15	Hd.	WI	+0.022		−0.89	II	2.6 3
	22	Fn.	WI	+0.037		−1.19	I	--- 3
	25	Fn.	WI	+0.045		−0.41	I	1.4 3½
June	4	Wy.	WI	+0.029		−0.35	II	2.1 3
	19	*Fn.*	*WII*	*+0.053*	*−0.40*	*−0.32*	*I*	--- *3*
	21	*Wy.*	*WII*	*+0.044*	*−0.73*	*−0.79*	*II*	--- *3*
	22	*Fn.*	*WII*	*+0.001*	*−0.60*	*−0.64*	*I*	--- *3*
	25	*Wy.*	*WII*	*+0.025*	*−0.36*	*−0.36*	*I*	--- *3*
July	*6*	*Fn.*	*EII*	*+0.038*	*−0.13*	*−0.13*	*0*	--- *3*
	9	*Fn.*	*EII*	*+0.041*	*+0.06*	*+0.23*	*0*	--- *3*
	27	*Hd.*	*EII*	*+0.051*	*−0.51*	*−0.37*	*0*	--- *3*
	30	*Wy.*	*EII*	*+0.024*	*−0.51*	*−0.37*	*0*	--- 3½

1917			s	″	″			
July 31	*Fn.*	*EII*	*+0.051*	*−1.26*	*−1.12*	*0*	---	*3½*
Aug. 3	*Fn.*	*WII*	*−0.014*	*+0.27*	*+0.25*	*0*	---	*3½*
6	*Hd.*	*WII*	*+0.034*	*−0.58*	*−0.59*	*0*	---	*3*
10	*Wy.*	*WII*	*−0.015*	*−0.73*	*−0.60*	*0*	---	*4*
13	*Fn.*	*WII*	*+0.026*	*−0.32*	*−0.31*	*0*	---	*3*
14	*Hd.*	*WII*	*+0.046*	*−0.18*	*−0.14*	*I*	---	*3*
17	*Wy.*	*WII*	*+0.034*	*−1.00*	*−0.92*	*0*	---	*3½*
20	*Fn.*	*WII*	*−0.010*	*+0.12*	*+0.10*	*0*	---	*3½*
21	*Wy.*	*WII*	*−0.034*	*−1.16*	*−1.22*	*0*	---	*4*
25	*Wy.*	*EII*	*+0.074*	*+1.25*	*+1.52*	*0*	---	*4½*
Sept. 4	*Fn.*	*EII*	*+0.060*	*−0.85*	*−0.63*	*0*	---	*4*
11	*Fn.*	*EII*	*−0.024*	*−0.94*	*−0.66*	*0*	---	*3½*
17	*Hd.*	*EII*	*+0.038*	*−0.64*	*−0.35*	*0*	---	*3½*
20	*Hd.*	*WII*	*+0.023*	*−0.06*	*+0.20*	*0*	---	*3½*
Oct. 2	*Fn.*	*WII*	*+0.030*	*+0.06*	*+0.22*	*0*	---	*4*
31	*Hd.*	*EII*	*+0.098*	*−0.26*	*+0.05*	*0*	---	*4*
Nov. 25	*Hd.*	*WII*	-----	*−0.29*	*−0.15*	*0*	---	*3½*
26	*Wy.*	*WII*	-----	*−0.21*	*0.00*	*0*	---	*3½*
Dec. 20	*Wy.*	*EII*	*+0.062*	*−0.21*	*−0.15*	*II*	---	*3*
1918								
Apr. 15	Fn.	EII	+0.057		−0.24	I	1.9	2½
May 2	Fn.	EII	+0.037		−0.71	I	---	3½
6	Fn.	EII	+0.047		----	0	---	3
8	Fn.	EII	+0.047		−0.49	II	1.6	3
15	Fn.	WII	+0.003		−0.49	I	2.4	2½
June 19	*Wy.*	*WII*	*+0.016*	*−0.42*	*−0.47*	*II*	---	*2*
24	*Wy.*	*WII*	*+0.009*	*−0.16*	*−0.15*	*II*	---	*2½*
27	*Wy.*	*WII*	*+0.017*	*−0.62*	*−0.59*	*I*	---	*3*
28	*Hd.*	*WII*	*+0.007*	*−0.79*	*−0.76*	*I*	---	*2½*
July 1	*Wy.*	*WII*	*−0.010*	*−0.67*	*−0.63*	*I*	---	*3½*
9	*Hd.*	*EII*	*+0.019*	*+0.04*	*+0.08*	*I*	---	*2½*
16	*Hd.*	*EII*	*+0.035*	*−0.35*	*−0.29*	*I*	---	*3*
20	*Wy.*	*EII*	*−0.016*	*+0.67*	*+0.63*	*0*	---	*4*
22	*Wy.*	*EII*	*+0.029*	*+0.11*	*+0.22*	*0*	---	*3½*
23	*Fn.*	*EII*	*+0.076*	*+0.43*	*+0.51*	*0*	---	*3*
Aug. 5	*Wy.*	*WII*	*+0.067*	*−1.70*	*−1.69*	*0*	---	*3½*
15	*Fn.*	*WII*	*−0.024*	*−1.39*	*−1.14*	*0*	---	*3½*
Mean------	1914.22		+0.049		−0.52			
	1914.17							
Corr----------			−0.081		−0.14			

Weisse$_2$ XIII 352

1912			h	m	s	°	′	″			
Apr. 9	Hd.	WII	13	21	15.968	+16	1	56.49	0	6.5	3
10	R.	WII			15.974			56.41	0	7.0	2
11	Fn.	EII			15.992			56.60	0	6.6	2½
16	Hd.	EII			15.958			56.34	0	---	2
1915											
Apr. 8	Hd.	EI			15.971			56.71	0	6.5	2
10	An.	EI			15.988			56.71	0	---	2½
13	Fn.	WI			15.942			56.33	0	7.0	2½
14	An.	WI			15.916			56.36	0	6.0	2
Mean------	1913.78		13	21	15.964	+16	1	56.49			
Corr----------					−0.081			−0.22			

Weisse$_1$ XIII 295

1913			h	m	s	°	′	″			
Mar. 22	R.	WII	13	21	34.756	−0	43	28.79	0	7.0	2
31	Fn.	EII			34.738			29.74	0	7.0	2½
Apr. 1	Hd.	EII			34.712			28.49	0	6.5	3
6	R.	WII			34.741			28.49	0	6.0	2
1914											
Mar. 7	Wy.	EI			34.759			29.14	0	7.0	3
12	Hd.	WI			34.747			29.00	0	7.0	2½
13	Fn.	WI			34.706			28.92	D	6.5	2
20	Fn.	EI			34.806			28.97	0	6.0	2½
Mean------	1913.72		13	21	34.746	−0	43	28.94			
Corr----------					−0.081			−0.18			

i Virginis

1912			h	m	s	°	′	″			
Mar. 26	Hd.	WII	13	21	57.766	−12	14	22.79	0	---	3
Apr. 3	R.	WII			57.775			22.15	0	---	4
19	Hd.	EII			57.750			22.69	I	4.4	2
May 2	Fn.	EII			57.887			22.67	0	---	5
1915											
Apr. 24	An.	WI			57.765			22.67	0	---	2½
26	Fn.	EI			57.741			23.09	0	6.0	3
May 6	Fn.	EI			57.760			22.52	0	---	3
14	Fn.	WI			57.770			22.49	0	---	3
Mean------	1913.81		13	21	57.777	−12	14	22.63			
Corr----------					−0.081			−0.13			

Groombridge 2001

	h	m	s	°	′	″
	13	23	50.251	+72	51	30.97

1912								
May 9	Fn.	WII	+0.06		+0.37	0	5.7	2
10	Hd.	WII	+0.07		+0.01	0	6.0	2½
24	Hd.	EII	+0.02		+0.58	0	6.0	3
25	R.	EII	+0.09		+0.10	0	6.0	1½
1915								
May 8	Hd.	EI	+0.16		+1.00	0	6.0	3
10	Hd.	EI	+0.14		+0.95	0	6.5	2
21	Wy.	WI	+0.15		+1.22	0	6.5	3
27	Wy.	WI	+0.11		+1.04	0	---	3
Mean------	1913.88		+0.100		+0.66			
Corr----------			−0.081		−0.35			

Groombridge 2001 S. P.

	h	m	s	°	′	″
	13	23	50.250	+72	51	30.98

1911								
Oct. 13	Hd.	WII	0.00		+0.88	0	6.5	3½
16	Fn.	WII	+0.09		+0.33	0	7.7	--
Nov. 22	Hd.	EII	−0.09		−0.71	0	6.0	2
Dec. 19	Hd.	EII	+0.06		−1.06	0	5.8	3
1914								
Oct. 30	Hd.	EI	+0.01		−1.20	0	6.0	4
31	An.	EI	----		−0.71	0	---	4½
Nov. 2	Fn.	WI	+0.07		−0.03	0	6.5	3
3	An.	WI	----		+0.28	D	7.0	4
Mean------	1912.85		+0.023		−0.28			
	1913.35							
Corr----------			−0.081		+0.56			

70 Virginis

	h	m	s	°	′	″
	13	24	1.625	+14	15	31.06

1913								
Apr. 20	R.	WII	+0.025		+0.64	0	---	--
21	Hd.	EII	+0.036		−0.24	I	4.4	2
22	Fn.	EII	+0.008		−0.42	0	---	--
May 13	Fn.	WII	+0.019		+0.42	0	---	2½
1914								
Mar. 22	Wy.	EI	+0.041		+0.35	0	5.5	2½
23	Hd.	EI	−0.018		+0.17	I	4.9	3
Apr. 3	Fn.	WI	+0.012		−0.01	D	5.0	2
6	Fn.	WI	+0.065		−0.16	D	5.0	2½
Mean------	1913.78		+0.024		+0.09			
Corr----------			−0.081		−0.22			

B. D.+31° 2493

1912			h	m	s	°	′	″			
Apr. 8	Fn.	WII	13	24	9.124	+31	36	55.74	0	---	--
9	Hd.	WII			9.115			54.87	0	6.5	--
11	Fn.	EII			9.122			54.45	0	7.0	2½
16	Hd.	EII			9.090			54.41	0	---	2

			h m s	° ′ ″			
1915							
May 17	Hd.	EI	9.031	55.23	0	7.0	3
June 4	An.	WI	9.122	53.98	0	6.5	2
8	Hd.	EI	9.073	54.95	0	7.5	2
12	An.	WI	9.123	53.74	0	7.5	2
Mean	1913.85		13 24 9.100	+31 36 54.67			
Corr			−0.081	−0.25			

Oeltzen 13654

			h m s	° ′ ″			
1913							
Apr. 2	Fn.	EII	13 24 22.603	+53 12 43.85	0	6.0	3
7	Fn.	WII	22.509	44.12	0	6.7	1½
8	R.	WII	22.496	44.01	0	7.0	2
24	Hd.	EII	22.619	43.93	0	6.2	2
1914							
Mar. 24	Fn.	EI	22.563	44.17	0	6.5	2½
26	Hd.	EI	22.567	43.69	0	6.5	2½
Apr. 9	Fn.	WI	22.584	44.60	0	6.0	2
10	Wy.	WI	22.630	44.20	0	6.5	3
Mean	1913.76		13 24 22.571	+53 12 44.07			
Corr			−0.081	−0.30			

Weisse$_1$ XIII 365

			h m s	° ′ ″			
1911							
May 26	Hd.	EII	13 25 29.316	+7 38 37.25	0	6.0	--
27	T.	EII	29.301	36.57	0	6.0	--
29	Fn.	WII	29.302	36.78	0	---	--
June 1	Fn.	WII	29.317	37.24	0	---	--
1915							
Mar. 30	Wy.	EI	29.327	37.23	0	---	3
Apr. 6	Wy.	EI	29.355	36.79	0	6.5	3
17	An.	WI	29.324	36.94	0	6.0	3
19	Fn.	WI	29.310	36.59	0	---	3
Mean	1913.34		13 25 29.319	+7 38 36.92			
Corr			−0.081	−0.20			

Weisse$_2$ XIII 474

			h m s	° ′ ″			
1913							
Feb. 15	R.	WII	13 26 46.912	+26 51 14.56	0	7.5	2
Mar. 11	R.	EII	46.914	-----	0	---	--
20	R.	WII	46.882	14.72	0	---	2
29	R.	EII	46.943	13.92	0	7.5	2
30	R.	EII	46.930	13.54	0	7.5	3
1914							
Feb. 26	Hd.	EI	46.917	14.49	0	7.5	3
27	Fn.	EI	46.943	14.12	0	7.0	2
Mar. 3	Fn.	WI	46.919	14.25	0	7.0	3
12	Hd.	WI	46.935	13.94	0	---	2
Mean	1913.63		13 26 46.922	+26 51 14.19			
	1913.69						
Corr			−0.081	−0.24			

350 G. Hydræ

			h m s	° ′ ″			
1913							
Mar. 22	R.	WII	13 27 34.999	−28 13 45.75	0	7.0	2
Apr. 1	Hd.	EII	34.978	46.44	0	6.5	3½
6	R.	WII	34.983	46.35	0	6.0	2½
30	R.	EII	34.929	46.87	0	---	3½
1914							
Mar. 7	Wy.	EI	34.918	46.65	0	7.0	3
13	Fn.	WI	34.942	45.98	0	6.0	2½
14	Wy.	WI	34.966	46.23	0	---	3½
20	Fn.	EI	34.996	45.50	0	6.5	3
Apr. 3	Fn.	WI	34.974	46.50	0	7.0	3
Mean	1913.79		13 27 34.965	−28 13 46.25			
Corr			−0.081	0.00			

Bradley 1786

			h m s	° ′ ″			
1912							
Mar. 18	Fn.	EII	13 28 13.565	−9 42 5.66	0	5.8	3½
25	Fn.	WII	13.548	5.83	0	5.7	2½
26	Hd.	WII	13.523	6.48	0	---	3
Apr. 19	Hd.	EII	13.444	6.02	0	6.0	2
1915							
May 8	Hd.	EI	13.544	6.01	0	6.0	3
10	Hd.	EI	13.549	5.86	0	6.0	2
15	Wy.	WI	13.554	5.82	0	---	3
21	Wy.	WI	13.524	5.96	0	6.5	3½
Mean	1913.80		13 28 13.531	−9 42 5.96			
Corr			−0.081	−0.14			

ζ Virginis

			h m s	° ′ ″			
			13 30 6.281	− 0 8 9.31			
1911			s	″	″		
June 2	Hd.	WII	+0.059		−0.25	I	4.4 --
7	T.	WII	+0.069		----	0	--- --
8	Fn.	WII	+0.089		+0.14	I	4.5 --
9	Hd.	WII	+0.080		−0.56	I	2.9 --
14	T.	EII	+0.064		+0.02	0	--- --
15	Fn.	EII	+0.073		−0.35	I	3.1 2
20	*Hd.*	*EII*	*+0.042*	*−0.31*	*−0.37*	*I*	--- --
Dec. 10	*Hd.*	*EII*	*+0.047*	*−0.76*	*−0.69*	*0*	--- *3½*
18	*R.*	*EII*	*+0.050*	*−1.11*	*−1.13*	*0*	--- --
19	*R.*	*EII*	-----	*−0.27*	*−0.25*	*0*	--- --
1912							
Apr. 10	R.	WII	+0.077		----	I	3.4 3
May 10	Hd.	WII	+0.056		−0.37	I	2.9 2
13	Fn.	WII	+0.072		−1.54	0	--- 3
19	R.	EII	+0.078		----	0	--- 3
25	R.	EII	+0.089		−0.33	I	3.9 2½
26	Hd.	EII	+0.049		−1.08	I	2.9 2
27	Fn.	EII	+0.042		----	I	3.4 2½
28	Hd.	WII	+0.081		----	I	2.9 2
30	Fn.	WII	+0.087		----	I	--- 3
31	Hd.	WII	+0.029		----	I	2.9 2
June 1	R.	WII	+0.044		----	I	3.4 1
4	Hd.	EII	+0.022		----	I	--- 3
5	R.	EII	+0.072		----	I	3.9 3
7	Hd.	EII	+0.095		----	0	--- --
1913							
Feb. 4	R.	WII	+0.044		----	I	--- --
Mar. 11	R.	EII	+0.022		----	I	--- 2½
18	R.	WII	+0.079		−0.35	I	2.9 2
Apr. 3	R.	EII	+0.095		----	I	--- --
19	R.	WII	+0.051		----	I	--- --
May 3	R.	EII	+0.058		−0.43	I	3.4 2
5	Hd.	EII	+0.070		−0.69	I	3.4 2
8	Hd.	EII	+0.042		−0.87	I	3.1 3
12	Hd.	WII	+0.073		−0.20	0	--- 3
13	Fn.	WII	+0.081		----	0	--- 2½
15	Hd.	WII	+0.058		−0.23	I	3.4 2½
19	Hd.	WII	+0.041		+0.26	I	3.4 2
20	Fn.	WII	+0.061		−0.25	I	3.3 2½
28	R.	WII	+0.046		−0.96	I	2.9 3
29	Hd.	WII	+0.047		−0.28	0	--- 3
31	R.	WII	+0.048		----	I	2.9 3
June 2	Hd.	WII	+0.058		−0.26	I	3.4 2
5	Hd.	WII	+0.026		−0.25	I	2.9 2
9	Hd.	WII	+0.049		----	I	2.9 3
Nov. 24	*R.*	*EI*	-----	*−0.51*	*−0.42*	*0*	--- --
Dec. 3	*Fn.*	*EI*	*+0.063*	*−1.03*	*−1.03*	*0*	--- *3*
4	*Fn.*	*EI*	*+0.146*	*−0.33*	*−0.35*	*0*	--- *3½*
5	*Hd.*	*EI*	*+0.073*	*−0.19*	*−0.19*	*0*	--- *2*
8	*R.*	*EI*	*+0.053*	*−0.70*	*−0.68*	*0*	--- --
11	*R.*	*EI*	*+0.122*	*−1.09*	*−0.98*	*0*	--- --
12	*Hd.*	*EI*	*+0.052*	*−0.76*	*−0.83*	*0*	--- *3*
14	*Fn.*	*WI*	*−0.035*	*[−2.84]*	*[−2.73]*	*0*	--- *2*
17	*Fn.*	*WI*	*+0.040*	*[−2.91]*	*[−2.88]*	*0*	--- *2½*
1914							
May 5	Hd.	WI	+0.054		−0.15	I	3.4 3
6	Fn.	WI	+0.056		−0.65	0	--- 2½
11	Hd.	WI	+0.045		−0.38	I	3.9 3

				s	"	"			
1914									
May	16	Fn.	WI	+0.069		−0.55	I	3.4	2½
	18	Fn.	WI	+0.052		+0.28	I	2.9	2½
	19	Wy.	WI	+0.069		−0.31	I	3.6	2½
	20	Hd.	WI	+0.076		−0.91	I	4.4	3
	23	Hd.	EI	+0.065		−0.14	I	3.9	3
	26	Wy.	EI	+0.027		−0.41	I	3.9	2½
	29	Hd.	EI	+0.034		+0.07	I	---	2
June	2	Fn.	EI	+0.054		−0.53	I	3.4	2½
	5	Fn.	EI	-----		+0.32	I	3.4	2½
	6	Wy.	EI	+0.042		−0.36	I	3.4	2½
	8	Fn.	EI	+0.042		−0.25	I	---	2½
	9	Wy.	EI	+0.006		−0.43	I	3.9	2½
Nov.	*23*	*Hd.*	*EI*	*+0.049*	*−0.43*	*−0.27*	*0*	---	*3*
Dec.	*11*	*An.*	*WI*	*+0.074*	*−1.38*	*−1.36*	*0*	---	*3*
	15	*Hd.*	*WI*	*+0.117*	*−1.28*	*−1.24*	*0*	---	*3½*
	17	*Hd.*	*WI*	*+0.078*	*−0.63*	*−0.64*	*0*	---	*2*
1915									
Jan.	4	An.	EI	+0.045		----	I	4.4	3
	7	An.	EI	+0.007		−0.48	I	3.4	2½
	14	An.	WI	+0.077		−0.20	0	---	3½
Apr.	23	Wy.	WI	+0.071		----	I	3.9	3
May	6	Fn.	EI	+0.026		----	I	3.9	3
	9	Wy.	EI	+0.070		----	I	3.4	2½
	19	Fn.	EI	+0.081		----	I	2.9	3
	25	Fn.	WI	+0.027		−0.47	0	---	3
June	10	Fn.	EI	+0.036		−0.03	I	3.9	2½
Dec.	*10*	*Fn.*	*WI*	-----	*−1.34*	*−1.32*	*0*	---	*3*
1916									
Jan.	14	Hd.	EI	+0.097		−0.15	I	3.4	3
Feb.	3	Fn.	EI	+0.058		−0.74	I	3.9	2½
	7	Fn.	EI	+0.062		+0.18	I	3.9	2½
	9	Hd.	WI	+0.096		−1.06	I	3.9	3
	15	Hd.	WI	+0.067		−0.91	I	3.4	3
	29	Hd.	WI	+0.087		−0.08	I	3.4	3
Mar.	3	Hd.	WI	+0.081		−0.31	I	2.9	3
	10	Fn.	WI	+0.065		−0.39	I	3.9	3
Mean------		1913.76		+0.059		−0.37			
		1914.02							
Corr------				−0.081		−0.18			

Bradley 1791

				h	m	s	°	′	″			
1912												
Apr.	3	R.	WII	13	30	46.682	+49	28	33.27	I	4.4	1
	8	Fn.	WII			46.684			32.87	0	---	1½
	11	Fn.	EII			46.680			33.03	0	5.0	2
	16	Hd.	EII			46.695			33.23	0	---	2
1915												
June	4	An.	WI			46.633			34.37	I	4.9	2
	7	Fn.	EI			46.694			33.80	0	---	2
	8	Hd.	EI			46.658			34.10	I	4.9	2
	12	An.	WI			46.656			33.49	I	5.4	2
Mean------		1913.86		13	30	46.673	+49	28	33.52			
Corr------						−0.081			−0.29			

17 H. Canum Venaticorum

				h	m	s	°	′	″			
				13	30	46.827	+37	38	35.97			
1913												
Apr.	8	R.	WII			−0.014			−0.74	I	4.4	1½
	16	Hd.	WII			+0.005			−0.31	0	5.2	4
	24	Hd.	EII			+0.014			−0.34	I	4.4	1
	25	Fn.	EII			+0.063			−0.11	0	5.5	1½
1914												
Mar.	22	Wy.	EI			+0.031			−0.34	0	5.5	3
	23	Hd.	EI			−0.016			+0.06	I	4.4	2
Apr.	3	Fn.	WI			−0.040			−0.42	0	5.0	1½
	6	Fn.	WI			+0.026			−0.92	0	5.0	2
Mean------		1913.77				+0.009			−0.39			
Corr------						−0.081			−0.27			

B. D.+44° 2285

				h	m	s	°	′	″			
1911												
May	26	Hd.	EII	13	31	24.230	+44	39	25.28	0	7.5	--
	27	T.	EII			24.276			24.45	0	7.5	--
	29	Fn.	WII			24.256			25.17	0	7.7	--
June	1	Fn.	WII			24.282			25.44	0	---	--
1915												
Apr.	8	Hd.	EI			24.366			24.79	0	6.5	2
	14	An.	WI			24.297			24.40	0	---	2
	15	Hd.	WI			24.249			25.07	0	6.5	2
May	5	Hd.	EI			24.340			24.37	0	6.5	2
Mean------		1913.35		13	31	24.287	+44	39	24.87			
Corr------						−0.081			−0.28			

Weisse$_1$ XIII 515

				h	m	s	°	′	″			
1912												
Apr.	9	Hd.	WII	13	33	9.710	+2	50	27.31	0	7.0	3½
	10	R.	WII			9.691			27.29	0	7.0	3½
May	19	R.	EII			9.749			28.15	0	7.0	2½
	20	Fn.	EII			9.779			26.23	0	---	--
1915												
Apr.	24	An.	WI			9.725			27.51	0	7.0	2½
May	8	Hd.	EI			9.718			27.55	0	7.0	2½
	10	Hd.	EI			9.711			27.31	0	7.0	2½
	15	Wy.	WI			9.758			27.67	0	---	3
Mean------		1913.84		13	33	9.730	+2	50	27.38			
Corr------						−0.081			−0.19			

25 Canum Venaticorum[1]

				h	m	s	°	′	″			
1915												
June	22	Wy.	EI	13	33	27.767	+36	45	-----	0	---	2½
Corr------						−0.081			-----			

Weisse$_2$ XIII 620

				h	m	s	°	′	″			
1913												
Feb.	8	R.	WII	13	33	45.663	+22	59	14.85	0	7.0	2
	15	R.	WII			45.682			14.47	0	7.5	2½
Mar.	11	R.	EII			45.657			15.19	0	---	2
	29	R.	EII			45.696			13.82	0	7.0	2
1914												
Mar.	7	Wy.	EI			45.701			14.10	0	7.0	3
	13	Fn.	WI			45.687			14.83	0	7.0	2
	20	Fn.	EI			45.700			13.27	0	6.5	2
Apr.	3	Fn.	WI			45.656			14.63	0	6.5	2
Mean------		1913.69		13	33	45.680	+22	59	14.40			
Corr------						−0.081			−0.24			

Lalande 25213

				h	m	s	°	′	″			
1912												
Mar.	25	Fn.	WII	13	35	7.447	−15	59	23.77	0	6.9	3
	26	Hd.	WII			7.493			24.65	0	---	3
May	1	R.	EII			7.555			23.99	0	---	5
	3	Hd.	EII			7.528			23.84	0	---	2
1915												
May	17	Hd.	EI			7.503			24.19	0	7.0	3½
	19	Fn.	EI			7.490			23.55	0	6.5	3
	21	Wy.	WI			7.495			24.82	0	7.0	3
June	17	Fn.	WI			7.508			23.89	0	7.0	3
Mean------		1913.84		13	35	7.502	−15	59	24.09			
Corr------						−0.081			−0.11			

Pulkowa 1855, 2035 *mean*

				h	m	s	°	′	″			
1913												
Mar.	18	R.	WII	13	35	8.315	+11	12	10.28	0	5.5	2
	21	Fn.	WII			8.362			11.56	0	6.0	3½
	28	Fn.	EII			8.339			11.56	0	5.5	1½
	30	R.	EII			8.282			10.84	0	6.0	2½

[1] Double; n. pr. component observed.

1914			h m s	° ′ ″			
Apr. 10	Wy.	WI	8.330		10.94	0	5.5 2½
21	Hd.	EI	8.278		11.73	0	6.0 2
27	Wy.	EI	8.325		11.23	0	6.0 2
30	Wy.	WI	8.270		10.95	0	6.5 2
Mean	1913.77		13 35 8.313	+11 12	11.14		
Corr			−0.081		−0.21		

Piazzi XIII 159

1912			h m s	° ′ ″			
Apr. 3	R.	WII	13 36 32.674	−22 59	40.22	0	7.0 2
8	Fn.	WII	32.708		40.94	0	6.7 3½
11	Fn.	EII	32.781		41.38	0	... 3½
19	Hd.	EII	32.704		41.42	0	6.8 3
1915							
May 31	Wy.	WI	32.718		41.33	0	7.0 3
June 7	Fn.	EI	32.703		40.93	0	7.5 3
10	Fn.	EI	32.716		40.73	0	7.0 3
19	Wy.	WI	32.643		41.23	0	... 3½
Mean	1913.86		13 36 32.706	−22 59	41.02		
Corr			−0.081		−0.05		

m Virginis

			h m s	° ′ ″			
			13 36 53.157	−8 14	56.75		
1913							
Apr. 3	R.	EII	+0.040		+0.33	0	6.0 3½
16	Hd.	WII	+0.048		−0.71	0	6.0 3½
17	R.	WII	+0.079		−0.18	0	5.0 2
22	Fn.	EII	−0.001		+0.58	0	5.8 2½
1914							
Mar. 23	Hd.	EI	+0.047		+0.27	I	... 3
24	Fn.	EI	+0.064		+0.28	0	5.5 2½
Apr. 3	Fn.	WI	+0.075		+0.25	0	5.0 2½
6	Fn.	WI	+0.021		−0.42	0	5.5 2½
Mean	1913.76		+0.047		+0.05		
Corr			−0.081		−0.15		

Bradley 1802

1911			h m s	° ′ ″			
May 20	T.	WII	13 37 19.600	+55 8	12.84	0	... ...
22	Fn.	WII	19.640		13.31	0	... ...
23	Hd.	EII	19.507		12.92	0	... ...
24	T.	EII	19.547		13.91	0	... ...
25	Fn.	EII	19.566		12.84	0	... ...
1915							
Apr. 7	An.	EI	19.606		12.78	I	4.4 2
8	Hd.	EI	19.626		12.79	I	4.4 2
13	Fn.	WI	19.554		13.54	0	5.0 2½
14	An.	WI	19.540		12.52	0	5.0 2
Mean	1913.12		13 37 19.576	+55 8	13.05		
Corr			−0.081		−0.30		

Piazzi XIII 184

1913			h m s	° ′ ″			
Feb. 8	R.	WII	13 38 41.77	+65 16	36.82	0	6.0 2
15	R.	WII	41.82		36.04	0	6.0 2
Mar. 11	R.	EII	41.95		36.58	0	7.0 1
29	R.	EII	41.86		36.17	0	6.0 2½
1914							
Mar. 13	Fn.	WI	41.95		36.25	0	6.0 2
20	Fn.	EI	41.86		35.94	0	6.0 2
22	Wy.	EI	41.87		36.24	0	6.0 3
Apr. 9	Fn.	WI	41.90		35.85	0	6.0 2
Mean	1913.70		13 38 41.872	+65 16	36.24		
Corr			−0.081		−0.33		

Weisse$_2$ XIII 749

1912			h m s	° ′ ″			
May 13	Fn.	WII	13 38 42.861	+35 26	32.02	0	... 2½
18	Hd.	EII	42.815		31.22	0	6.2 2
19	R.	EII	42.803		32.50	0	7.0 2
21	Hd.	WII	42.874		31.42	0	6.5 2
1915							
Apr. 19	Fn.	WI	42.884		32.56	0	... 2½
24	An.	WI	42.844		32.85	0	5.5 2
May 5	Hd.	EI	42.875		31.71	0	6.0 2
6	Fn.	EI	.....		31.74	0	... 2½
8	Hd.	EI	42.851		32.14	0	6.2 2
Mean	1913.85		13 38 42.851	+35 26	32.02		
	1914.02						
Corr			−0.081		−0.26		

Piazzi XIII 174

1913			h m s	° ′ ″			
Mar. 31	Fn.	EII	13 39 13.169	−5 2	45.46	0	7.5 3
Apr. 1	Hd.	EII	13.171		45.32	0	7.0 3
7	Fn.	WII	13.175		45.41	0	6.8 3
8	R.	WII	13.203		45.79	0	7.0 2
1914							
Feb. 27	Fn.	EI	13.229		45.31	0	7.0 3
Mar. 3	Fn.	WI	13.187		45.64	0	7.5 3½
7	Wy.	EI	13.181		45.21	0	7.0 3
12	Hd.	WI	13.205		45.60	0	7.5 3
Mean	1913.72		13 39 13.190	−5 2	45.47		
Corr			−0.081		−0.16		

i Centauri

1912			h m s	° ′ ″			
May 2	Fn.	EII	13 40 34.233	−32 35	20.68	0	... 4½
3	Hd.	EII	34.150		20.37	0	... 2
4	R.	WII	34.105		20.55	0	... 5
10	Hd.	WII	34.156		21.19	I	4.9 3
1915							
May 15	Wy.	WI	34.040		19.39	0	... 3½
19	Fn.	EI	34.016		20.37	0	5.0 3
21	Wy.	WI	33.986		21.29	0	5.5 3½
June 7	Fn.	EI	33.978		19.88	0	6.0 3
Mean	1913.87		13 40 34.083	−32 35	20.46		
Corr			−0.081		+0.08		

Bradley 1805

1913			h m s	° ′ ″			
Mar. 18	R.	WII	13 41 8.478	−11 58	34.02	0	5.5 2½
22	R.	WII	8.443		32.83	0	6.5 2
28	Fn.	EII	8.455		32.87	0	5.5 3
30	R.	EII	8.464		33.01	0	6.0 2½
Apr. 6	R.	WII	8.452		33.40	0	6.0 2
1914							
Apr. 13	Fn.	EI	8.453		33.03	0	5.5 3
17	Wy.	EI	8.442		33.11	0	5.7 2
30	Wy.	WI	8.451		33.04	0	6.5 2½
May 2	Fn.	WI	8.480		33.30	0	6.0 3½
6	Fn.	WI	8.465		33.30	0	6.5 3
Mean	1913.77		13 41 8.458	−11 58	33.19		
Corr			−0.081		−0.13		

Bradley 1808

1912			h m s	° ′ ″			
Apr. 20	Fn.	WII	13 42 32.653	+26 9	11.89	0	5.8 1½
23	Hd.	WII	32.640		12.56	0	6.2 2
27	R.	EII	32.631		12.34	0	6.0 2½
May 1	R.	EII	32.610		12.70	0	6.0 3
1915							
Apr. 8	Hd.	EI	32.659		12.40	0	6.0 2
13	Fn.	WI	32.614		12.12	0	6.0 2½
14	An.	WI	32.580		12.74	0	5.5 2½
May 5	Hd.	EI	32.621		11.73	0	6.7 3
Mean	1913.80		13 42 32.626	+26 9	12.31		
Corr			−0.081		−0.24		

τ Boötis

			h m s	° ′ ″			
			13 42 58.986	+17 54 18.05			
1913			s	″	″		
Apr. 17	R.	WII	+0.045		−1.04	I	4.4 2
19	R.	WII	+0.031		−0.75	I	4.4 2½
22	Fn.	EII	+0.068		+0.18	0	5.0 1½
24	Hd.	EII	+0.061		−0.12	I	4.4 1
1914							
Mar. 24	Fn.	EI	+0.045		−0.08	0	4.5 2
26	Hd.	EI	+0.006		−0.08	I	4.4 3
Apr. 3	Fn.	WI	+0.032		+0.74	0	--- 2
6	Fn.	WI	+0.066		+0.07	0	5.0 2
Mean	1913.77		+0.044		−0.14		
Corr			−0.081		−0.23		

B. D.+39° 2680

			h m	s	° ′ ″		
1916							
June 1	Fn.	EI	13 43	-----	+38 59 32.88	0	6.0 2½
2	Hd.	EI		-----	33.30	0	6.0 2
20	Hd.	WI		-----	33.29	0	5.5 3
22	Fn.	WI		-----	33.46	0	--- 2
Mean	1916.45		13 43	-----	+38 59 33.23		
Corr				-----	−0.27		

η Ursæ Majoris

			h m s	° ′ ″			
			13 43 59.711	+49 45 43.71			
1911			s	″	″		
May 17	T.	WII	−0.008		+0.32	I	--- --
20	T.	WII	+0.029		+1.00	I	1.9 --
22	Fn.	WII	+0.028		+1.52	I	--- --
23	Hd.	EII	−0.044		+0.48	I	2.4 --
24	T.	EII	−0.056		−0.10	I	2.4 --
25	Fn.	EII	+0.016		−0.24	I	--- --
1915							
Mar. 30	Wy.	EI	+0.035		+0.52	I	--- 2½
Apr. 7	An.	EI	+0.064		+0.72	II	3.1 2
15	Hd.	WI	−0.068		+0.75	II	1.6 2
17	An.	WI	−0.047		−0.08	II	3.1 2
1916							
June 12	Wy.	EI	+0.032		+0.26	II	2.1 2
13	Fn.	EI	−0.020		+0.55	I	2.4 2½
23	*Hd.*	*WI*	*−0.030*	*+1.42*	*+1.43*	*II*	--- *2*
26	*Hd.*	*WI*	*−0.031*	*+0.58*	*+0.57*	*I*	--- *2*
July 6	*Wy.*	*EI*	*−0.053*	*+0.82*	*+0.83*	*I*	--- *3*
7	*Fn.*	*EI*	*−0.041*	*+0.77*	*+0.77*	*0*	--- *2*
11	*Fn.*	*EI*	*−0.101*	*+0.82*	*+0.82*	*0*	--- *2½*
Aug. 7	*Wy.*	*EI*	*−0.095*	*+0.03*	*0.00*	*0*	--- *3½*
8	*Fn.*	*EI*	*−0.127*	*−0.25*	*−0.27*	*0*	--- *3½*
22	*Fn.*	*EI*	*−0.127*	*−0.29*	*−0.32*	*0*	--- *3½*
24	*Wy.*	*WI*	*−0.005*	*+0.51*	*+0.48*	*0*	--- *3½*
25	*Fn.*	*WI*	*−0.036*	*+1.04*	*+1.01*	*0*	--- *3½*
Sept. 5	*Wy.*	*WI*	*+0.052*	*+0.47*	*+0.45*	*0*	--- *3½*
18	*Wy.*	*EI*	*−0.110*	*−1.16*	*−1.18*	*0*	--- *3½*
20	*Wy.*	*EI*	*+0.014*	*+0.28*	*+0.27*	*0*	--- *3½*
22	*Hd.*	*EI*	*−0.096*	*+1.00*	*+0.93*	*0*	--- *3*
26	*Hd.*	*EI*	*+0.022*	*+1.11*	*+1.05*	*0*	--- *3½*
Oct. 17	*Fn.*	*WI*	*−0.080*	*+0.78*	*+0.76*	*0*	--- *4*
26	*Hd.*	*EI*	*−0.056*	*+0.52*	*+0.47*	*0*	--- *3½*
Nov. 2	*Fn.*	*EI*	*−0.017*	*+0.70*	*+0.66*	*0*	--- *3½*
6	*Wy.*	*EI*	*−0.039*	*+0.12*	*+0.09*	*0*	--- *4*
8	*Wy.*	*EI*	*−0.019*	*+0.96*	*+0.95*	*0*	--- *3½*
9	*Fn.*	*EI*	*−0.033*	*+1.05*	*+1.01*	*0*	--- *3½*
15	*Wy.*	*WI*	*+0.011*	*+0.82*	*+0.78*	*0*	--- *3½*
16	*Hd.*	*WI*	*−0.063*	*−0.11*	*−0.13*	*0*	--- *3*
19	*Fn.*	*WI*	*+0.004*	*+0.88*	*+0.88*	*0*	--- *3½*
23	*Fn.*	*WI*	*−0.015*	*+1.54*	*+1.54*	*0*	--- *3½*
26	*Wy.*	*WI*	*−0.073*	*+1.07*	*+1.04*	*0*	--- *3½*
Dec. 25	*Fn.*	*WI*	*−0.026*	*+1.40*	*+1.40*	*0*	--- *2½*
1917							
May 10	Fn.	WI	+0.027		+1.84	I	1.9 2½
14	Wy.	WI	+0.021		+0.75	II	2.1 2½
1917							
June 4	Wy.	WI	−0.023		+0.84	II	2.6 2½
19	Fn.	WII	−0.043		+0.36	I	2.4 2½
22	*Fn.*	*WII*	*−0.105*	*+0.69*	*+0.68*	*I*	--- *2½*
25	*Wy.*	*WII*	*+0.014*	*+0.32*	*+0.32*	*II*	--- *3*
July 30	*Wy.*	*EII*	*+0.020*	*+0.29*	*+0.28*	*0*	--- *4*
Aug. 21	*Wy.*	*WII*	*+0.020*	*+0.63*	*+0.64*	*0*	--- *3½*
Sept. 17	*Hd.*	*EII*	*−0.078*	*+1.00*	*+0.96*	*I*	--- *3*
20	*Hd.*	*WII*	*−0.045*	*+0.65*	*+0.61*	*0*	--- *3½*
Nov. 1	*Fn.*	*EII*	*+0.037*	*+0.31*	*+0.27*	*0*	--- *3½*
26	*Wy.*	*WII*	-----	*[+2.51]*	*[+2.47]*	*0*	--- *3½*
1918							
June 28	*Hd.*	*WII*	*−0.019*	*+0.54*	*+0.54*	*II*	--- *2*
July 2	*Hd.*	*WII*	*−0.042*	*+0.73*	*+0.75*	*I*	--- *2*
16	*Hd.*	*EII*	*−0.025*	*+0.50*	*+0.49*	*0*	--- *2½*
Aug. 8	*Wy.*	*WII*	*−0.135*	*+0.21*	*+0.21*	*0*	--- *3½*
Mean	1914.50		−0.004		+0.59		
Corr			−0.081		−0.29		

μ Centauri

			h m s	° ′ ″			
1912							
Jan. 19	Hd.	WII	13 44 -----	−42 1 30.7		0	--- 4
24	Hd.	EII	-----		32.0	0	--- 5
Feb. 6	Fn.	EII	-----		34.3	I	--- 4
7	Hd.	EII	-----		28.4	0	--- 5
9	Fn.	EII	-----		32.5	0	--- --
June 5	R.	EII	-----		33.2	0	--- --
1913							
Jan. 1	Hd.	WII	-----		32.5	0	--- 4
8	Hd.	WII	-----		31.5	0	--- 4
12	Fn.	WII	-----		26.6	0	--- 3½
13	Hd.	WII	-----		32.2	0	--- 5
14	R.	WII	-----		35.0	0	--- 2½
18	R.	EII	-----		31.7	0	--- --
21	R.	EII	-----		32.8	0	--- --
27	Hd.	EII	-----		31.6	0	--- 4
Feb. 4	R.	WII	-----		36.8	0	--- --
14	R.	WII	-----		35.3	0	--- --
May 20	Fn.	WII	-----		32.7	0	--- 4
1914							
Jan. 31	Fn.	WI	-----		35.2	0	--- 4½
May 2	Fn.	WI	-----		36.6	0	--- 4½
21	Fn.	WI	-----		35.3	0	--- --
29	Hd.	EI	-----		34.0	0	--- 3½
June 2	Fn.	EI	-----		32.2	0	--- 4
16	Hd.	EI	-----		28.5	0	--- 3½
20	Wy.	WI	-----		33.9	0	--- 4
1915							
Jan. 15	Hd.	WI	-----		30.5	0	--- 4
21	Fn.	EI	-----		30.4	0	--- 3½
June 10	Fn.	EI	-----		32.9	0	--- 4
1916							
Jan. 23	Fn.	EI	-----		33.3	0	--- 3½
Mean	1913.53		13 44 -----	−42 1 32.59			
Corr			-----		+0.45		

Piazzi XIII 263

			h m s	° ′ ″			
1913							
Apr. 8	R.	WII	13 44 51.56	+83 12 [18.38]		0	6.0 2½
16	Hd.	WII	51.85		15.91	0	6.5 3
25	Fn.	EII	51.64		15.35	0	6.5 2½
May 2	Fn.	EII	51.74		15.25	0	6.5 3
1914							
May 19	Wy.	WI	51.52		15.21	0	7.0 2½
20	Hd.	WI	51.77		15.79	0	6.5 2½
23	Hd.	EI	51.78		15.45	0	--- 3
25	Fn.	EI	51.50		15.35	0	7.0 3
Mean	1913.85		13 44 51.670	+83 12 15.47			
	1913.93						
Corr			−0.081		−0.38		

Piazzi XIII 263 s. p.

				h m s	° ′ ″			
1912								
Sept. 14	R.	WII	13 44	51.60	+83 12 14.61	0	7.5	2
30	R.	EII		51.32	14.67	0	---	4
Oct. 1	R.	EII		51.39	14.42	0	---	2½
8	R.	WII		51.22	15.04	0	---	2½
1913								
Nov. 22	Hd.	WI		51.63	14.74	0	7.0	3
24	Fn.	WI		50.83	14.29	0	7.0	3½
Dec. 3	Hd.	EI		51.62	15.00	0	7.0	3½
4	Fn.	EI		51.68	15.17	0	---	3½
Mean	1913.33		13 44	51.411	+83 12 14.74			
Corr				−0.081	+0.46			

89 Virginis

				h m s	° ′ ″			
			13 44	58.681	−17 41 10.18			
1913								
Feb. 8	R.	WII		+0.071	−0.95	0	5.5	3
15	R.	WII		+0.049	−1.12	0	5.5	2½
Mar. 29	R.	EII		+0.054	−0.70	0	5.5	4
30	R.	EII		+0.036	+0.11	0	5.5	3½
1914								
Mar. 22	Wy.	EI		+0.031	−0.01	0	6.0	3
23	Hd.	EI		+0.078	+0.31	0	6.0	3
Apr. 10	Wy.	WI		+0.031	−0.18	0	5.5	3
30	Wy.	WI		+0.068	−0.14	0	5.5	2½
Mean	1913.72			+0.052	−0.34			
Corr				−0.081	−0.09			

Lacaille 5695

				h m s	° ′ ″			
1912								
May 10	Hd.	WII	13 45	0.224	−28 38 0.48	0	6.5	3
13	Fn.	WII		0.298	0.85	0	---	2
18	Hd.	EII		0.261	1.93	0	7.0	3
19	R.	EII		0.300	1.60	0	7.5	4
1915								
Apr. 24	An.	WI		0.286	1.34	0	7.0	3
May 8	Hd.	EI		0.280	1.03	0	7.5	3
10	Hd.	EI		0.251	0.62	0	7.5	3
21	Wy.	WI		0.243	1.22	0	7.5	3½
Mean	1913.86		13 45	0.268	−28 38 1.13			
Corr				−0.081	+0.01			

Weisse$_1$ XIII 732

				h m s	° ′ ″			
1913								
Apr. 3	R.	EII	13 45	15.945	+8 51 19.15	0	---	3½
6	R.	WII		15.983	19.37	0	7.0	2
7	Fn.	WII		15.918	18.52	0	6.8	2
30	R.	EII		15.934	19.07	0	6.5	3
May 3	R.	EII		15.980	18.72	0	7.0	2
1914								
Mar. 7	Wy.	EI		15.978	20.09	0	6.5	3
12	Hd.	WI		15.952	18.72	0	7.5	3
13	Fn.	WI		15.985	19.11	0	6.5	2
20	Fn.	EI		15.964	18.86	0	6.5	2½
Mean	1913.69		13 45	15.960	+8 51 19.07			
Corr				−0.081	−0.21			

Weisse$_2$ XIII 917

				h m s	° ′ ″			
1912								
May 2	Fn.	EII	13 45	48.489	+19 4 32.98	0	7.5	3
3	Hd.	EII		48.522	33.43	0	---	2
4	R.	WII		48.543	33.37	0	7.0	4
9	Fn.	WII		48.529	33.75	0	---	3
1915								
May 17	Hd.	EI		48.508	33.81	0	7.0	3
19	Fn.	EI		48.523	34.15	0	6.5	2½
27	Wy.	WI		48.513	34.83	0	---	3
June 7	Fn.	EI		48.518	32.97	0	7.0	2½
17	Fn.	WI		48.523	33.33	0	7.5	2½
Mean	1914.05		13 45	48.519	+19 4 33.62			
Corr				−0.081	−0.23			

Groombridge 2055

				h m s	° ′ ″			
1913								
Mar. 18	R.	WII	13 46	49.78	+61 56 15.80	0	6.0	2
22	R.	WII		49.79	16.61	0	6.0	2
28	Fn.	EII		49.84	17.49	0	6.0	1½
31	Fn.	EII		49.81	16.21	0	6.0	2½
1914								
Apr. 13	Fn.	EI		49.86	16.09	0	6.0	2
17	Wy.	EI		49.77	16.38	0	6.0	2
May 6	Fn.	WI		49.95	15.88	0	---	2½
11	Hd.	WI		49.87	16.01	0	6.0	3
Mean	1913.77		13 46	49.834	+61 56 16.31			
Corr				−0.081	−0.32			

Weisse$_2$ XIII 988

				h m s	° ′ ″			
1912								
May 25	R.	EII	13 47	56.821	+40 6 51.98	0	7.5	1
26	Hd.	EII		56.853	51.99	0	7.0	2
31	Hd.	WII		56.855	52.33	0	7.0	2
June 1	R.	WII		56.911	51.88	0	---	--
1915								
Apr. 15	Hd.	WI		56.772	52.14	0	7.0	2
17	An.	WI		56.829	51.80	0	7.0	2
May 8	Hd.	EI		56.827	51.97	0	7.5	2
10	Hd.	EI		56.848	51.92	0	7.5	2
Mean	1913.87		13 47	56.840	+40 6 52.00			
Corr				−0.081	−0.27			

i Draconis

				h m s	° ′ ″			
1913								
May 5	Hd.	EII	13 48	48.30	+65 10 3.33	I	4.4	2
8	Hd.	EII		48.32	3.16	I	4.4	3
12	Hd.	WII		48.23	3.97	I	4.4	2
13	Fn.	WII		48.23	3.62	0	---	2½
1914								
May 15	Wy.	WI		48.28	3.81	0	---	3
16	Fn.	WI		48.21	3.67	0	5.0	2
23	Hd.	EI		48.30	3.72	0	---	3
25	Fn.	EI		48.22	3.96	0	5.5	2½
Mean	1913.87		13 48	48.261	+65 10 3.66			
Corr				−0.081	−0.33			

η Boötis

				h m s	° ′ ″			
			13 50	23.954	+18 50 53.37			
				s	″ ″			
1911								
May 15	Fn.	WII		−0.031	−0.44	0	---	--
20	T.	WII		+0.024	−0.51	I	2.4	--
22	Fn.	WII		−0.009	−1.04	I	2.4	--
23	Hd.	EII		+0.011	−0.07	I	2.9	--
24	T.	EII		+0.009	−0.80	I	---	1
25	Fn.	EII		+0.037	−0.76	I	---	--
26	Hd.	EII		+0.014	−0.02	I	2.4	--
27	T.	EII		−0.027	−0.30	I	2.9	--
29	Fn.	WII		0.000	−0.07	I	2.1	--
June 1	Fn.	WII		+0.043	−0.39	I	2.7	--
2	Hd.	WII		+0.013	+0.39	I	2.4	2
7	T.	WII		+0.027	+0.24	0	---	--
8	Fn.	WII		+0.012	+0.27	I	3.8	--
9	Hd.	WII		+0.018	+0.31	I	2.9	--
14	T.	EII		+0.011	+0.50	I	---	--
15	Fn.	EII		+0.004	+0.01	I	3.2	2
16	Hd.	EII		+0.022	−0.30	0	---	--
20	Hd.	EII		+0.005	----	I	2.4	3½
Nov. 20	*R.*	*EII*		-----	*−2.11*	*−2.08*	*0*	---	--
Dec. 7	*R.*	*WII*		*+0.081*	*−1.19*	*−1.18*	*0*	---	--
19	*R.*	*EII*		-----	*−0.21*	*−0.19*	*0*	---	--
27	*Hd.*	*EII*		*−0.013*	*−0.16*	*−0.16*	*I*	---	*3*
1912								
Apr. 10	R.	WII		+0.005	----	II	2.6	2
19	Hd.	EII		+0.011	----	II	2.7	2
27	R.	EII		+0.029	+0.07	II	2.6	2½

1912				s	"	"				
May	3	Hd.	EII	+0.008		−0.54	I			2
	4	R.	WII	+0.018			I	2	9	3
	9	Fn.	WII	+0.017		−0.57	I			2
	10	Hd.	WII	+0.020			I	2	9	2
	13	Fn.	WII	+0.027			I	2	3	2
	18	Hd.	EII	−0.013			I	2	7	2
	19	R.	EII	+0.015			I	2	9	2
	20	Fn.	EII	+0.008		−1.07	I	2	6	2½
	21	Hd.	WII	+0.002			I	2	9	2
	24	Hd.	EII	+0.037			I	2	4	3
	26	Hd.	EII	−0.002		−0.09	I	2	4	2
	27	Fn.	EII	−0.029		−0.64	I	2	5	2½
	28	Hd	WII	+0.019			II	2	6	2
	30	Fn.	WII	+0.058			I	2	3	2
	31	Hd.	WII	+0.023		−0.14	II	2	6	2
June	3	Fn.	WII	−0.005		0.00	I	2	4	1½
	4	Hd.	EII	+0.005		−0.77	I			
	5	R.	EII	+0.008		−0.22	II	2	6	2
	7	Hd.	EII	+0.016			I			
	8	R.	EII	+0.015		−0.14	II	2	6	1½
Nov.	*10*	*R.*	*EII*	*+0.039*	*−0.59*	*−0.43*	*0*			*5*
	11	*Fn.*	*EII*	*+0.082*	*−0.39*	*−0.39*	*0*			*3*
	15	*Hd.*	*EII*	*+0.031*	*+0.11*	*+0.15*	*0*			*3*
	20	*R.*	*EII*	*+0.050*	*−0.02*	*+0.08*	*0*			
	22	*Hd.*	*EII*	*+0.062*	*−0.22*	*−0.23*	*0*			*2*
	25	*Hd.*	*WII*	*+0.013*	*−1.14*	*−1.07*	*0*			*3*
	26	*Fn.*	*WII*		*−0.76*	*−0.75*	*0*			
	28	*Fn.*	*WII*	*+0.006*	*−0.07*	*+0.01*	*0*			*4*
	29	*Hd.*	*WII*	*+0.008*	*−1.05*	*−1.08*	*0*			*3½*
Dec.	*9*	*R.*	*WII*		*−0.31*	*−0.27*	*0*			*2½*
	11	*R.*	*EII*	*−0.009*	*+1.02*	*+1.05*	*0*			*2½*
	12	*Hd.*	*EII*	*−0.004*	*+0.34*	*+0.35*	*0*			*2*
	13	*R.*	*EII*	*+0.006*	*−0.16*	*−0.11*	*I*			*2½*
	15	*Fn.*	*EII*	*−0.035*	*−0.48*	*−0.48*	*0*			*3½*
	16	*R.*	*EII*		*0.00*	*−0.03*	*0*			*3*
	25	*R.*	*WII*		*−0.38*	*−0.30*	*I*			*2½*
1913										
Feb.	4	R.	WII	+0.004		−0.09	II	3	1	2½
	8	R.	WII	+0.007		−0.86	I	2	9	2½
	25	R.	EII	+0.033			I			2½
Mar.	11	R.	EII	+0.012			I			2
	29	R.	EII	+0.012			I	2	9	3
	30	R.	EII	+0.001			II	3	1	2½
	31	Fn.	EII	+0.013		−0.77	I	2	6	2½
Apr.	3	R.	EII	−0.008		−0.04	I	3	4	3
	6	R.	WII	+0.033			II	3	1	2
	17	R.	WII	−0.003		−0.99	II	2	6	2
	19	R.	WII	−0.003		−1.44	I	2	9	2
	20	R.	WII	−0.018			I	2	9	2
	25	Fn.	EII	+0.013			I	2	4	1½
	30	R.	EII	+0.023			II	2	6	3
May	1	Hd.	EII	−0.014		−0.16	II	2	6	2
	2	Fn.	EII	+0.004		+0.16	I	2	7	2½
	3	R.	EII	+0.021		−0.62	II	2	6	2
	10	R.	EII	+0.010			I	2	9	2½
	15	Hd.	WII	+0.027		−0.01	I	2	9	2
	19	Hd.	WII	+0.006		+0.11	II	2	6	2
	20	Fn.	WII	−0.005		+0.02	I	2	5	2
	29	Hd.	WII	−0.018		−0.34	0			2
June	5	Hd.	WII	+0.013		+0.33	II	2	6	2
Nov.	*4*	*Hd.*	*EI*	*+0.021*	*−0.23*	*−0.18*	*0*			*3½*
	6	*R.*	*EI*	*+0.031*	*−0.62*	*−0.51*	*0*			
	11	*Hd.*	*WI*	*+0.063*	*−0.01*	*+0.03*	*0*			*4*
	17	*R.*	*WI*		*−1.38*	*−1.24*	*0*			
	18	*Hd.*	*WI*	*+0.005*	*−0.61*	*−0.56*	*0*			*3*
	20	*R.*	*WI*	*+0.035*	*−0.48*	*−0.39*	*0*			
	21	*Hd.*	*WI*	*+0.014*	*+0.06*	*+0.10*	*0*			
	23	*Fn.*	*WI*	*+0.022*	*+0.11*	*+0.13*	*0*			*4*
	24	*R.*	*EI*	*+0.035*	*+0.56*	*+0.60*	*I*			
Dec.	*1*	*R.*	*EI*		*−0.53*	*−0.51*	*0*			
	3	*Fn.*	*EI*	*−0.054*	*−1.31*	*−1.31*	*0*			*3*
	4	*Fn.*	*EI*	*+0.021*	*−0.35*	*−0.36*	*0*			*3*
	5	*Hd.*	*EI*	*+0.018*	*−0.29*	*−0.28*	*0*			*2*
	8	*R.*	*EI*	*−0.009*	*−0.88*	*−0.87*	*0*			
	11	*R.*	*EI*	*+0.013*	*−0.45*	*−0.39*	*I*			
	12	*Hd.*	*EI*	*−0.002*	*−0.34*	*−0.42*	*0*			*3*
	14	*Fn.*	*WI*	*−0.070*	*−0.36*	*−0.33*	*0*			*1½*
	17	*Fn.*	*WI*	*+0.023*	*−0.01*	*0.00*	*0*			*2½*

1913				s	"	"				
Dec.	*18*	*R.*	*WI*	*+0.001*	*−0.07*	*−0.07*	*0*			
	29	*Wy.*	*WI*	*−0.115*	*+0.70*	*+0.70*	*I*			*2½*
1914										
Jan.	28	Fn.	WI	+0.047		−0.57	I	2	9	2
Mar.	3	Fn.	WI	+0.028			I	3	9	3
	4	Wy.	WI	+0.023			0			2½
	7	Wy.	EI	+0.021			I	2	9	2½
	12	Hd.	WI	+0.033			0			2
	13	Fn.	WI	+0.013			I	2	4	2
	14	Wy.	WI	+0.015			I			3
	20	Fn.	EI	−0.008			I	2	4	2
	22	Wy.	EI	+0.016			I	2	9	2½
	23	Hd.	EI	+0.007			0			2
	24	Fn.	EI	+0.005			I	2	9	2½
	26	Hd.	EI	−0.011		0.00	I	2	9	2
Apr.	3	Fn.	WI	+0.021			I	2	9	
May	7	Wy.	WI	+0.004			0			3
	18	Fn.	WI	−0.017		+0.08	I	2	9	1½
	19	Wy.	WI	−0.006		+0.32	I	2	9	2½
	20	Hd.	WI	+0.004		−0.10	I	2	9	3
	21	Fn.	WI	+0.002		−0.65	I	2	9	2½
	22	Wy.	EI	−0.028			I	2	9	2½
	28	Fn.	EI	+0.012		+0.07	I			2
	29	Hd.	EI	+0.017		−0.44	I			2
June	2	Fn.	EI	+0.002		+0.41	I	2	9	2
	3	Wy.	EI	+0.009		−0.07	I			2½
	5	Fn.	EI	+0.007		+0.12	I	2	9	2
	6	Wy.	EI	+0.031		+0.04	I	2	9	2
	8	Fn.	EI	+0.040		−0.40	I	2	4	2
	9	Wy.	EI	+0.007		−0.49	I	2	9	3
	10	Hd.	EI	+0.003		−0.14	0			3
July	*20*	*Hd.*	*EI*	*+0.018*			*0*			
Sept.	*22*	*Wy.*	*EI*	*+0.020*	*−0.20*	*−0.10*	*0*			*3½*
	28	*Hd.*	*WI*	*+0.055*	*−1.02*	*−0.92*	*0*			*3*
Oct.	*30*	*An.*	*EI*	*−0.034*	*−1.95*	*−1.85*	*0*			*3½*
Nov.	*4*	*Fn.*	*WI*	*+0.066*			*0*			*3½*
	9	*Fn.*	*WI*	*−0.002*	*+0.05*	*+0.13*	*0*			*3½*
	10	*An.*	*WI*	*−0.010*			*0*			*4*
	11	*Hd.*	*WI*		*−0.47*	*−0.44*	*0*			*3*
	12	*Fn.*	*WI*	*+0.074*			*0*			*4*
	17	*Fn.*	*EI*		*−0.71*	*−0.55*	*0*			*2½*
	19	*Wy.*	*EI*	*+0.035*	*−0.80*	*−0.77*	*0*			*3½*
	20	*Fn.*	*EI*	*−0.022*			*0*			*3½*
	22	*Fn.*	*EI*	*+0.024*	*+0.30*	*+0.33*	*0*			*3*
	23	*Hd.*	*EI*	*+0.034*	*−1.61*	*−1.50*	*0*			*3*
	25	*Wy.*	*EI*	*+0.080*	*+1.07*	*+1.06*	*0*			*4*
	27	*Wy.*	*EI*	*+0.049*	*−0.08*	*−0.02*	*0*			*3½*
Dec.	*11*	*An.*	*WI*	*+0.019*	*−0.03*	*−0.01*	*I*			*2½*
	15	*An.*	*WI*	*−0.015*	*+0.39*	*+0.41*	*I*			*2½*
	16	*Fn.*	*WI*	*−0.085*	*+0.10*	*+0.11*	*0*			*2½*
	17	*Hd.*	*WI*	*+0.008*	*+0.36*	*+0.38*	*0*			*2*
	27	*Wy.*	*WI*	*−0.002*			*I*			*3½*
1915										
Jan.	7	An.	EI	+0.038			II	3	1	2
	9	Wy.	EI	+0.034		−0.94	I	3	4	2½
	14	An.	WI	−0.028			II	3	6	3
	25	An.	EI	+0.017		−0.13	II	3	1	2½
Apr.	6	Wy.	EI	+0.045			0			3
	23	Wy.	WI	+0.018			I	3	4	3
	24	An.	WI	−0.004			I			2
May	4	Wy.	EI	+0.014		+0.21	II	2	6	3
	5	Hd.	EI	+0.021		+0.16	I	3	4	2½
	9	Wy.	EI	+0.030			II	2	6	2
	14	Fn.	WI	+0.002		+0.25	I			2½
	15	Wy.	WI	+0.034		+0.27	I			3
	17	Hd.	EI	−0.001		+0.13	I	3	4	3
	19	Fn.	EI	+0.001		+0.13	I	2	9	2½
	21	Wy.	WI	+0.046		+0.06	I	2	9	3
	25	Fn.	WI	+0.023		−0.11	0			2
	27	Wy.	WI	−0.011		+1.33	0			3
June	7	Fn.	EI	+0.038		−0.14	I	3	4	2
	8	Hd.	EI	+0.012		+0.09	I	3	4	2
	9	An.	EI	−0.006		+0.31	II	3	1	3
	10	Fn.	EI	+0.028		+0.40	I	2	9	2
	12	An.	WI	+0.012		−0.87	II	3	1	2½
	14	Fn.	WI			−0.08	0			2
	17	Fn.	WI	+0.015		−0.27	II	2	6	2½
	19	Wy.	WI	+0.002			II	3	1	3

				″	″			
1915								
Aug. 14	*An.*	*EI*	*−0.011*	*+0.10*	*+0.16*	*0*	---	*3*
Nov. 4	*Wy.*	*EI*	-----	*−1.05*	*−1.01*	*0*	---	*4*
5	*Hd.*	*EI*	*−0.005*	*−0.28*	*−0.20*	*0*	---	*3½*
12	*Fn.*	*WI*	*+0.065*	----	----	*0*	---	*3½*
16	*Wy.*	*WI*	*−0.035*	*+0.11*	*+0.16*	*0*	---	*3½*
17	*Hd.*	*WI*	-----	*−0.43*	*−0.35*	*0*	---	*3*
21	*Fn.*	*EI*	*+0.024*	*−0.84*	*−0.79*	*0*	---	*3½*
23	*Hd.*	*EI*	*+0.053*	*−0.41*	*−0.37*	*0*	---	*2½*
25	*Wy.*	*EI*	*+0.054*	*−0.78*	*−0.72*	*0*	---	*3½*
29	*Fn.*	*EI*	*+0.014*	*−0.40*	*−0.38*	*0*	---	*3*
30	*Wy.*	*EI*	-----	*−0.55*	*−0.54*	*0*	---	*3*
Dec. 2	*Fn.*	*EI*	*+0.055*	*+0.39*	*+0.40*	*0*	---	--
3	*Hd.*	*EI*	*+0.036*	*−0.14*	*−0.12*	*0*	---	*2*
6	*Wy.*	*WI*	*+0.036*	*−0.35*	*−0.34*	*0*	---	*3*
9	*Wy.*	*WI*	*−0.005*	*−0.58*	*−0.58*	*0*	---	*3*
10	*Fn.*	*WI*	-----	*+0.50*	*+0.53*	*0*	---	*2½*
14	*Fn.*	*WI*	*+0.022*	*+0.43*	*+0.46*	*0*	---	*3*
20	*Fn.*	*WI*	*−0.023*	*−0.04*	*−0.01*	*0*	---	*3*
1916								
Feb. 15	Hd.	WI	+0.001		−0.43	I	2.9	3
Mar. 10	Fn.	WI	+0.016		+0.12	I	2.4	2½
June 2	Hd.	EI	+0.019		−0.09	I	2.9	2
12	Wy.	EI	+0.003		−0.03	I	2.9	2½
13	Fn.	EI	−0.019		−0.06	I	2.9	2
20	Hd.	WI	+0.030		+0.14	II	3.1	2
22	*Fn.*	*WI*	*−0.006*	*−0.26*	*−0.27*	*I*	---	*2*
23	*Hd.*	*WI*	*−0.010*	*+0.57*	*+0.56*	*II*	---	*2*
26	*Hd.*	*WI*	*+0.011*	*−0.04*	*−0.02*	*I*	---	*2*
27	*Wy.*	*WI*	*+0.023*	*−0.99*	*−0.99*	*I*	---	*3*
29	*Hd.*	*WI*	*+0.006*	*−0.84*	*−0.84*	*I*	---	*2*
July 6	*Wy.*	*EI*	*−0.036*	*−0.20*	*−0.22*	*I*	---	*3*
7	*Fn.*	*EI*	*−0.040*	*−0.59*	*−0.58*	*0*	---	*2*
11	*Fn.*	*EI*	*−0.066*	*−0.42*	*−0.42*	*0*	---	*2½*
14	*Fn.*	*EI*	*−0.023*	*−0.70*	*−0.69*	*0*	---	*2½*
Aug. 4	*Fn.*	*WI*	*−0.012*	----	----	*0*	---	*3½*
7	*Wy.*	*EI*	*−0.067*	*+0.09*	*+0.14*	*0*	---	*3½*
14	*Fn.*	*EI*	*−0.044*	*−0.52*	*−0.46*	*0*	---	*3½*
21	*Wy*	*EI*	*−0.042*	*−0.53*	*−0.50*	*0*	---	*3½*
22	*Fn.*	*EI*	*+0.022*	*−0.37*	*−0.32*	*0*	---	*3½*
24	*Wy.*	*WI*	*−0.002*	*−0.65*	*−0.60*	*0*	---	*3½*
25	*Fn.*	*WI*	*−0.024*	----	----	*0*	---	*3½*
Sept. 5	*Wy*	*WI*	*−0.001*	*−0.83*	*−0.79*	*0*	---	*3½*
11	*Hd.*	*WI*	*−0.010*	*−0.05*	*+0.03*	*0*	---	*3*
18	*Wy.*	*EI*	*−0.043*	----	----	*0*	---	*3½*
19	*Hd.*	*EI*	*−0.061*	*−1.62*	*−1.55*	*0*	---	*3*
20	*Wy.*	*EI*	*−0.019*	*−1.07*	*−1.05*	*0*	---	*3½*
22	*Hd.*	*EI*	*+0.023*	*−0.66*	*−0.59*	*0*	---	*3*
26	*Hd.*	*EI*	*+0.004*	*−1.41*	*−1.29*	*0*	---	*3½*
Oct. 17	*Fn.*	*WI*	*−0.025*	----	----	*0*	---	*4*
Nov. 1	*Hd.*	*EI*	*−0.027*	*−1.69*	*−1.60*	*0*	---	*3½*
6	*Wy.*	*EI*	*−0.011*	*−1.32*	*−1.27*	*0*	---	*4*
8	*Wy.*	*EI*	*+0.016*	*−0.09*	*−0.07*	*0*	---	*3½*
15	*Wy.*	*WI*	*+0.043*	*−0.76*	*−0.68*	*0*	---	*4*
16	*Hd.*	*WI*	*−0.014*	*−0.40*	*−0.35*	*0*	---	*3*
19	*Fn.*	*WI*	*+0.083*	*−0.28*	*−0.28*	*0*	---	*3½*
26	*Wy.*	*WI*	*+0.040*	*−0.77*	*−0.71*	*0*	---	*4*
Dec. 7	*Hd.*	*EI*	*−0.011*	*−0.57*	*−0.55*	*0*	---	*2½*
25	*Fn.*	*WI*	*+0.014*	*−0.14*	*−0.14*	*0*	---	*2½*
1917								
Jan. 8	Fn.	EI	+0.054		----	I	2.9	3½
18	Fn.	EI	+0.051		−1.11	I	2.9	3
May 10	Fn.	WI	−0.002		−0.61	I	3.4	3½
14	Wy.	WI	+0.030		+0.66	I	2.9	3
June 4	Wy.	WI	−0.006		−0.84	I	3.4	2½
19	Fn.	WII	+0.009		+0.25	I	2.4	2½
22	*Fn.*	*WII*	*−0.031*	*−0.31*	*−0.28*	*I*	---	*2½*
25	*Wy.*	*WII*	*−0.001*	*−0.58*	*−0.58*	*II*	---	*2½*
July 6	*Fn.*	*EII*	*−0.034*	*−0.01*	*−0.01*	*0*	---	*2*
30	*Wy.*	*EII*	*−0.032*	*−0.35*	*−0.33*	*0*	---	*3½*
Aug. 13	*Fn.*	*WII*	*−0.025*	*−0.31*	*−0.32*	*0*	---	*3*
17	*Wy.*	*WII*	*−0.001*	*−0.27*	*−0.23*	*0*	---	*3*
21	*Wy.*	*WII*	*−0.008*	*−0.65*	*−0.66*	*0*	---	*3½*
Sept. 4	*Fn.*	*EII*	*−0.045*	*−0.52*	*−0.39*	*0*	---	*3½*
11	*Fn.*	*EII*	*+0.001*	*−0.83*	*−0.73*	*0*	---	*3½*
17	*Hd.*	*EII*	*+0.049*	*−0.72*	*−0.65*	*0*	---	*3*
18	*Wy.*	*EII*	*+0.046*	*−0.47*	*−0.39*	*0*	---	*4*
27	*Fn.*	*WII*	- -	*−0.66*	*−0.61*	*0*	---	*3½*
Oct. 2	*Fn.*	*WII*	*−0.002*	----	----	*0*	---	*3½*

			s	″	″			
1917								
Nov. 11	*Wy.*	*WII*	*+0.076*	*−0.94*	*−0.94*	*0*	---	*3½*
26	*Wy.*	*WII*	-----	*−1.04*	*−0.97*	*0*	---	*3½*
Dec. 9	*Fn.*	*WII*	*−0.034*	*−0.27*	*−0.21*	*0*	---	*3*
20	*Wy.*	*EII*	*+0.006*	*−0.22*	*−0.20*	*0*	---	*3*
23	*Fn.*	*EII*	*+0.041*	*−0.21*	*−0.19*	*0*	---	*2½*
26	*Fn.*	*EII*	*+0.025*	*−0.47*	*−0.45*	*0*	---	*2½*
1918								
May 8	Fn.	EII	+0.014		−1.42	I	2.9	2
15	Fn.	WII	+0.020		+0.08	I	3.4	2½
June 27	*Wy.*	*WII*	*+0.015*	*−0.18*	*−0.18*	*I*	---	*2½*
28	*Hd.*	*WII*	*−0.010*	*+0.05*	*+0.05*	*I*	---	*2*
July 2	*Hd.*	*WII*	*−0.014*	*+0.36*	*+0.33*	*I*	---	*2*
16	*Hd.*	*EII*	*+0.016*	*−0.74*	*−0.72*	*0*	---	*2*
23	*Fn.*	*EII*	*+0.001*	*−0.02*	*+0.01*	*0*	---	*2½*
Aug. 15	*Fn.*	*WII*	*−0.066*	*−0.51*	*−0.45*	*0*	---	*3½*
Mean		1913.87	+0.012		−0.18			
		1913.98						
Corr			−0.081		−0.23			

Weisse$_1$ XIII 825

				h	m	s	°	′	″			
1913												
Apr. 7	Fn.	WII		13	51	2.089	−9	7	7.38	0	6.7	3
8	R.	WII				2.089			7.89	0	---	--
21	Hd.	EII				2.133			8.19	0	6.5	2
24	Hd.	EII				2.084			7.78	0	6.5	1
1914												
Apr. 21	Hd.	EI				2.115			7.26	0	6.5	2½
27	Wy.	EI				2.129			7.15	0	6.5	2
May 6	Fn.	WI				2.068			8.08	0	---	3
11	Hd.	WI				2.109			7.15	0	---	3
Mean		1913.81		13	51	2.102	−9	7	7.61			
Corr						−0.081			−0.15			

Lalande 25629

				h	m	s	°	′	″			
1912												
Apr. 20	Fn.	WII		13	51	29.721	+14	29	49.08	0	6.5	2
23	Hd.	WII				29.724			49.95	0	6.5	2
May 1	R.	EII				29.725			49.00	0	7.0	1½
2	Fn.	EII				29.765			48.83	0	---	3½
1915												
Mar. 30	Wy.	EI				29.662			49.42	0	---	3
Apr. 6	Wy.	EI				29.663			49.66	0	---	3
7	An.	EI				29.708			49.45	0	6.0	2½
13	Fn.	WI				29.664			48.78	0	6.5	3
14	An.	WI				29.636			48.88	0	7.0	2½
Mean		1913.96		13	51	29.696	+14	29	49.23			
Corr						−0.081			−0.22			

92 Virginis

				h	m	s	°	′	″			
1913												
Feb. 15	R.	WII		13	51	52.731	+1	29	25.93	0	6.0	2½
Mar. 11	R.	EII				52.719			26.27	0	---	--
18	R.	WII				52.749			24.92	0	6.0	2
28	Fn.	EII				52.718			25.76	0	5.8	2
1914												
Mar. 7	Wy.	EI				52.745			25.12	0	6.0	3
20	Fn.	EI				52.733			25.82	0	6.0	2
Apr. 9	Fn.	WI				52.774			26.26	0	6.0	2
10	Wy.	WI				52.700			25.82	0	6.5	3
Mean		1913.71		13	51	52.734	+1	29	25.74			
Corr						−0.081			−0.18			

Weisse$_2$ XIII 1090

				h	m	s	°	′	″			
1912												
May 10	Hd.	WII		13	52	10.904	+32	28	17.19	0	6.0	3
18	Hd	EII				10.898			17.84	0	6.5	2
19	R.	EII				10.915			17.76	0	7.5	1½
21	Hd.	WII				10.903			17.93	0	6.5	2

1915			h m s	° ′ ″		
Apr. 19	Fn.	WI	10.884	17.69	0	--- 2½
24	An.	WI	10.888	18.61	0	--- 2
26	Fn.	EI	10.875	17.78	0	7.0 2½
May 8	Hd.	EI	10.882	18.49	0	6.2 2
Mean	1913.85		13 52 10.894	+32 28 17.91		
Corr			−0.081	−0.25		

47 Hydræ

1913			h m s	° ′ ″		
Mar. 22	R.	WII	13 53 27.978	−24 31 59.39	0	6.5 2
29	R.	EII	27.955	59.90	0	6.0 3½
30	R.	EII	27.951	59.73	0	6.5 2½
Apr. 6	R.	WII	27.980	60.16	0	6.0 2
1914						
Mar. 23	Hd.	EI	27.969	58.85	0	--- 3
24	Fn.	EI	27.976	59.32	0	6.0 3
Apr. 3	Fn.	WI	27.939	58.81	0	5.5 3
6	Fn.	WI	27.974	60.49	0	6.0 3½
Mean	1913.74		13 53 27.965	−24 31 59.58		
Corr			−0.081	−0.03		

Bradley 1828

1913			h m s	° ′ ″		
Apr. 16	Hd.	WII	13 54 25.926	+22 8 5.86	0	6.2 3
17	R.	WII	25.935	4.82	0	6.0 2
25	Fn.	EII	25.915	6.30	0	6.0 1½
30	R.	EII	25.923	5.66	0	6.0 2½
1914						
Mar. 26	Hd.	EI	25.944	5.34	0	6.0 2½
Apr. 13	Fn.	EI	25.934	5.43	0	6.0 2
May 6	Fn.	WI	25.957	6.47	0	--- 2½
11	Hd.	WI	25.922	6.07	0	--- 3
15	Wy.	WI	25.926	6.01	0	6.0 2
Mean	1913.87		13 54 25.931	+22 8 5.77		
Corr			−0.081	−0.23		

Piazzi XIII 269

1911			h m s	° ′ ″		
May 20	T.	WII	13 55 9.419	−3 6 42.60	0	--- --
22	Fn.	WII	9.403	42.27	0	7.0 --
24	T.	EII	9.398	42.47	0	--- --
25	Fn.	EII	9.451	42.11	0	7.2 --
1915						
May 19	Fn.	EI	9.387	41.77	0	6.0 3
21	Wy.	WI	9.399	43.18	0	7.0 3
27	Wy.	WI	9.410	42.18	0	--- 3½
June 7	Fn.	EI	9.353	41.15	0	7.0 2½
Mean	1913.39		13 55 9.402	−3 6 42.22		
Corr			−0.081	−0.17		

τ Virginis

			h m s	° ′ ″		
			13 57 3.913	+1 58 47.02		
1911						
May 26	Hd.	EII	+0.046	+0.10	I	4.4 --
27	T.	EII	−0.024	−0.30	I	4.4 --
29	Fn.	WII	+0.011	−0.17	0	5.0 --
June 1	Fn.	WII	+0.072	+0.12	I	4.5 --
1915						
Mar. 30	Wy.	EI	+0.048	−0.03	0	--- 3
Apr. 7	An.	EI	+0.019	+0.22	I	4.4 2½
14	An.	WI	+0.027	+0.19	0	--- 2½
15	Hd.	WI	−0.008	+0.30	I	4.4 3
Mean	1913.34		+0.024	+0.05		
Corr			−0.081	−0.18		

11 Boötis

			h m s	° ′ ″		
			13 57 5.660	+27 49 15.36		
1911						
June 2	Hd.	WII	−0.042	+0.73	0	6.5 2
7	T.	WII	−0.034	+0.42	0	--- --
8	Fn.	WII	−0.007	+0.69	0	7.0 --
9	Hd.	WII	−0.005	+0.27	0	6.5 --
15	Fn.	EII	−0.018	+0.78	0	6.7 2
20	Hd.	EII	−0.062	+0.07	0	--- 3½
1915						
Apr. 19	Fn.	WI	−0.006	+0.50	0	--- 3
24	An.	WI	−0.029	+0.59	0	6.5 2
May 8	Hd.	EI	−0.039	−0.14	0	6.5 2
10	Hd.	EI	−0.040	−0.37	0	6.2 2
Mean	1913.00		−0.028	+0.35		
Corr			−0.081	−0.25		

Lalande 25774

1913			h m s	° ′ ″		
Feb. 8	R.	WII	13 58 9.914	−16 55 61.42	0	7.0 3½
15	R.	WII	9.976	60.74	0	6.0 3
Mar. 28	Fn.	EII	9.915	60.57	0	6.7 2½
29	R.	EII	9.964	60.97	0	7.0 4½
1914						
Mar. 7	Wy.	EI	9.866	61.07	0	--- 3½
20	Fn.	EI	9.936	61.38	0	7.0 3
Apr. 3	Fn.	WI	9.909	59.25	0	6.5 3
6	Fn.	WI	9.916	60.98	0	7.0 3
Mean	1913.70		13 58 9.924	−16 56 0.80		
Corr			−0.081	−0.10		

Lalande 25795

1913			h m s	° ′ ″		
Mar. 18	R.	WII	13 58 51.766	−21 59 22.61	0	6.5 2½
22	R.	WII	51.748	21.85	0	7.0 2
30	R.	EII	51.780	21.84	0	--- 2½
31	Fn.	EII	51.786	21.94	0	7.0 3½
1914						
Apr. 17	Wy.	EI	51.813	22.10	0	6.5 2½
21	Hd.	EI	51.779	21.32	0	7.0 3
May 6	Fn.	WI	51.749	22.76	0	--- 3
11	Hd.	WI	51.786	22.14	0	--- 3½
Mean	1913.78		13 58 51.776	−21 59 22.07		
Corr			−0.081	−0.06		

Lalande 25827

1912			h m s	° ′ ″		
Apr. 27	R.	EII	13 59 24.727	+5 19 59.72	0	6.0 3
May 1	R.	EII	24.679	59.74	0	6.5 3
10	Hd.	WII	24.678	59.18	0	6.5 3
13	Fn.	WII	24.657	60.06	0	6.8 2
1915						
May 19	Fn.	EI	24.641	59.79	0	--- 3
21	Wy.	WI	24.649	59.29	0	7.0 3
27	Wy.	WI	24.656	58.96	0	--- 3
June 7	Fn.	EI	24.648	59.75	0	--- 3
Mean	1913.87		13 59 24.667	+5 19 59.56		
Corr			−0.081	−0.19		

Piazzi XIII 286

1913			h m s	° ′ ″		
Apr. 6	R.	WII	13 59 34.535	−14 32 23.44	0	6.0 2
7	Fn.	WII	34.546	23.03	0	6.5 3
21	Hd.	EII	34.545	22.54	0	6.5 3
24	Hd.	EII	34.506	22.15	0	6.5 1
1914						
Mar. 26	Hd.	EI	34.498	21.93	0	6.5 3
Apr. 9	Fn.	WI	34.485	22.02	0	6.5 3
10	Wy.	WI	34.512	22.65	0	6.5 3
13	Fn.	EI	34.543	22.45	0	6.5 3
Mean	1913.77		13 59 34.521	−14 32 22.53		
Corr			−0.081	−0.11		

Piazzi XIII 296

			h m s	° ′ ″			
1913							
Apr. 8	R.	WII	13 59 38.777	+51 24 16.46	0	6.0	2½
16	Hd.	WII	38.850	16.20	0	6.0	2
25	Fn.	EII	38.841	16.42	0	5.8	1½
30	R.	EII	38.862	16.19	0	6.0	2
1914							
Mar. 23	Hd.	EI	38.806	16.33	0	---	2
24	Fn.	EI	38.764	16.25	0	6.0	2
May 15	Wy.	WI	38.809	16.25	0	6.0	2½
16	Fn.	WI	38.887	15.60	0	6.0	2
Mean	1913.80		13 59 38.824	+51 24 16.21			
Corr			−0.081	−0.29			

π Hydræ

			h m s	° ′ ″			
			14 1 14.592	−26 14 57.65			
1912							
May 18	Hd.	EII	+0.058	−0.19	I	3.9	3
19	R.	EII	+0.033	+1.13	I	4.4	3
21	Hd.	WII	+0.035	+0.04	I	4.4	3
28	Hd.	WII	−0.004	+0.42	I	3.9	3
1915							
June 4	An.	WI	+0.034	−0.07	I	4.9	3
8	Hd.	EI	+0.042	+1.49	0	---	3
9	An.	EI	+0.073	+0.73	I	4.4	3½
12	An.	WI	+0.018	−0.96	I	4.9	3½
Mean	1913.91		+0.036	+0.32			
Corr			−0.081	−0.02			

θ Centauri

			h m s	° ′ ″			
			14 1 22.716	−35 55 41.15			
1913							
Apr. 17	R.	WII	+0.165	−1.16	I	2.9	2½
19	R.	WII	+0.026	+2.29	I	2.9	2½
May 1	Hd.	EII	+0.025	−1.02	I	3.9	3
2	Fn.	EII	+0.058	+1.90	0	---	4
1914							
May 18	Fn.	WI	+0.097	−0.63	I	2.9	3½
19	Wy.	WI	+0.012	−1.12	0	---	3½
23	Hd.	EI	+0.110	+0.19	0	3.4	3½
25	Fn.	EI	+0.109	−0.35	0	---	3½
Mean	1913.85		+0.075	+0.01			
Corr			−0.081	+0.16			

α Draconis

			h m s	° ′ ″			
			14 1 57.144	+64 48 20.88			
1912			s	″			
Jan. 24	Hd.	EII	----	0.00	I	3.4	2
Feb. 2	Fn.	WII	----	+0.94	I	3.2	2½
6	Fn.	EII	----	−0.05	I	3.3	2
9	Fn.	EII	----	−0.68	I	3.3	3
12	R.	EII	----	+0.78	I	3.9	3
13	Fn.	EII	----	+0.15	0	---	2½
May 20	Fn.	EII	−0.17	−0.52	I	3.5	3
26	Hd.	EII	−0.16	+0.16	I	3.4	2
31	Hd.	WII	−0.10	+0.04	II	3.1	2
June 1	R.	WII	−0.06	0.00	I	3.4	2
1915							
May 9	Wy.	EI	−0.05	+0.64	I	3.4	3
10	Hd.	EI	−0.01	+0.28	I	3.4	2
25	Fn.	WI	+0.02	+1.03	0	---	2½
31	Wy.	WI	−0.07	+0.24	I	3.4	2½
1916							
June 12	Wy.	EI	−0.04	+0.65	I	3.9	2½
20	Hd.	WI	−0.08	+0.75	I	3.4	2
1916			s	″	″			
June 22	Fn.	WI	−0.07		−0.79	I	3.9	2
23	Hd.	WI	−0.08		+0.85	I	3.4	2
26	*Hd.*	*WI*	*−0.05*	*+0.83*	*+0.80*	*I*	---	*2½*
27	*Wy.*	*WI*	*+0.04*	*−0.10*	*−0.10*	*0*	---	*3½*
29	*Hd.*	*WI*	*−0.11*	*+0.10*	*+0.07*	*I*	---	*2*
July 6	*Wy.*	*EI*	*−0.11*	*+0.51*	*+0.53*	*0*	---	*2½*
11	*Fn.*	*EI*	*−0.12*	*+0.63*	*+0.55*	*0*	---	*2½*
13	*Hd.*	*EI*	*−0.13*	*+0.34*	*+0.30*	*0*	---	*2½*
Aug. 24	*Wy.*	*WI*	*−0.01*	*+0.49*	*+0.41*	*0*	---	*3½*
Sept. 11	*Hd.*	*WI*	----	*+0.40*	*+0.26*	*0*	---	*2½*
19	*Hd.*	*EI*	*−0.24*	*−0.50*	*−0.59*	*0*	---	*3*
20	*Wy.*	*EI*	*−0.04*	*+0.62*	*+0.60*	*0*	---	*3½*
22	*Hd.*	*EI*	*−0.13*	*+0.69*	*+0.63*	*0*	---	*3½*
Nov. 15	*Wy.*	*WI*	*−0.04*	*+0.32*	*+0.25*	*0*	---	*4*
16	*Hd.*	*WI*	*−0.15*	*+0.55*	*+0.49*	*0*	---	*3*
Dec. 6	*Fn.*	*EI*	*−0.05*	*+1.06*	*+1.06*	*0*	---	*3½*
7	*Hd.*	*EI*	*−0.14*	*+0.35*	*+0.32*	*0*	---	*2*
25	*Fn.*	*WI*	*−0.05*	*+0.88*	*+0.88*	*0*	---	*2½*
1917								
May 10	Fn.	WI	−0.05		+0.63	I	4.4	3
14	Wy.	WI	−0.04		+0.52	I	3.9	3
June 4	Wy.	WI	−0.09		+0.35	I	3.9	2½
19	Fn.	WII	−0.08		+0.59	I	3.9	2½
22	Fn.	WII	−0.08		+0.45	I	3.9	3½
July 6	*Fn.*	*EII*	*−0.03*	*+0.68*	*+0.67*	*0*	---	*2*
30	*Wy.*	*EII*	*−0.07*	*+0.17*	*+0.15*	*0*	---	*3½*
Sept. 17	*Hd.*	*EII*	*−0.09*	*+0.50*	*+0.42*	*0*	---	*3*
Nov. 25	*Hd.*	*WII*	----	*+1.12*	*+1.05*	*0*	---	*3½*
26	*Wy.*	*WII*	----	*+0.62*	*+0.53*	*0*	---	*4*
1918								
June 28	*Hd.*	*WII*	*−0.10*	*+0.60*	*+0.59*	*I*	---	*2½*
July 2	*Hd.*	*WII*	*−0.05*	*+0.55*	*+0.59*	*I*	---	*2*
Mean	1915.54		−0.071		+0.30			
	1914.64							
Corr			−0.081		−0.33			

α Draconis s. p.

			h m s	° ′ ″			
			14 1 -----	+64 48 20.88			
1912							
Jan. 24	Hd.	EII	-----	0.0	0	---	5
27	Fn.	EII	-----	−0.6	0	---	4½
Aug. 27	R.	WII	-----	−0.1	0	---	--
Sept. 19	R.	WII	-----	−0.4	0	---	--
Dec. 12	R.	EII	-----	+2.2	0	---	3
14	R.	EII	-----	−0.4	0	---	3
1913							
Jan. 21	Fn.	EII	-----	+1.4	0	---	4
25	R.	EII	-----	−1.2	0	---	2
26	Hd.	EII	-----	+0.4	0	---	4
28	Fn.	EII	-----	−0.3	0	---	3½
30	Hd.	WII	-----	+0.3	0	---	4
Feb. 2	R.	WII	-----	+0.4	0	---	--
Nov. 4	R.	EI	-----	−1.1	0	---	--
1914							
Jan. 26	R.	WI	-----	−0.3	0	---	--
29	R.	WI	-----	−0.4	0	---	--
1915							
Jan. 14	Hd.	WI	-----	+0.5	0	---	4
15	Fn.	WI	-----	−0.2	0	---	3½
29	Wy.	EI	-----	+0.4	0	---	3½
Nov. 10	Fn.	WI	-----	−0.8	0	---	3½
30	Fn.	EI	-----	−1.6	0	---	4
Dec. 6	Fn.	WI	-----	−1.4	0	---	4
7	Wy.	WI	-----	−1.9	0	---	3½
1916							
Jan. 4	Fn.	EI	-----	−0.2	0	---	3½
8	Hd.	EI	-----	−0.5	I	---	4
23	Fn.	EI	-----	−1.7	0	---	3½
24	Hd.	EI	-----	−0.8	I	---	3½
Mean	1914.18		-----	−0.32			
Corr			-----	+0.75			

Weisse$_2$ XIII 1311

			h	m	s	°	′	″			
1913											
Apr. 20	R.	WII	14	2	17.404	+18	20	28.87	0	7.5	2
21	Hd.	EII			17.421			28.37	0	7.0	2
May 3	R.	EII			17.392			28.22	0	7.5	2
15	Hd.	WII			17.410			29.04	0	---	2
1914											
May 6	Fn.	WI			17.416			28.91	0	---	--
11	Hd.	WI			17.482			28.78	0	---	3½
26	Wy.	EI			17.415			28.68	0	---	3
June 2	Fn.	EI			17.396			28.97	0	7.0	2
3	Wy.	EI			17.449			28.97	0	---	--
5	Fn.	EI			17.397			28.83	0	7.0	2
Mean	1913.97		14	2	17.418	+18	20	28.76			
Corr					−0.081			−0.23			

Weisse$_2$ XIII 1331

			h	m	s	°	′	″			
1911											
June 2	Hd.	WII	14	2	39.831	+38	50	47.34	0	8.0	2
8	Fn.	WII			39.854			47.38	0	7.4	--
9	Hd.	WII			39.893			47.61	0	8.0	--
15	Fn.	EII			39.892			47.36	0	7.2	2
20	Hd.	EII			39.837			46.41	0	---	3½
1915											
Apr. 17	An.	WI			39.870			47.48	0	7.5	2½
24	An.	WI			------			48.85	0	---	2
May 5	Hd.	EI			39.897			47.40	0	---	2
8	Hd.	EI			39.898			47.52	0	7.5	2
21	Wy.	WI			39.920			47.43	0	8.0	3
Mean	1913.18		14	2	39.877	+38	50	47.48			
	1913.39										
Corr					−0.081			−0.27			

9 H. Boötis

			h	m	s	°	′	″			
1915											
May 3	Fn.	EI	14	4	19.950	+44	16	-----	0	5.5	3
27	Wy.	WI			19.952			-----	0	6.0	2½
June 10	Fn.	EI			19.961			55.75	0	5.5	2½
1916											
Mar. 3	Hd.	WI			19.905			-----	0	6.0	2
1917											
June 22	Fn.	WII			19.967			-----	0	5.5	2½
1918											
May 15	Fn.	WII			19.975			-----	0	5.5	2
Mean	1916.36		14	4	19.952	+44	16	55.75			
	1915.44										
Corr					−0.081			−0.28			

Bradley 1838

			h	m	s	°	′	″			
1911											
May 26	Hd.	EII	14	4	55.543	+49	52	59.29	0	5.5	--
27	T.	EII			55.569			59.69	0	6.0	--
29	Fn.	WII			55.546			59.42	0	---	--
June 1	Fn.	WII			55.578			60.08	0	---	--
1915											
Apr. 7	An.	EI			55.639			-----	I	4.4	2
8	Hd.	EI			55.606			60.24	I	4.9	2
13	Fn.	WI			55.583			60.96	0	6.0	3
14	An.	WI			55.546			59.81	I	5.4	2
26	Fn.	EI			55.537			59.91	0	---	2½
Mean	1913.56		14	4	55.572	+49	52	59.92			
	1913.35										
Corr					−0.081			−0.29			

Cape 1880, 7744

			h	m	s	°	′	″			
1912											
May 1	R.	EII	14	4	59.527	−30	11	41.40	0	8.0	4
3	Hd.	EII			59.465			40.99	0	7.5	3
9	Fn.	WII			59.490			41.19	0	7.8	4
10	Hd.	WII			59.471			41.01	0	7.2	3½
1915											
May 10	Hd.	EI			59.454			40.62	0	8.0	3½
19	Fn.	EI			59.460			41.00	0	7.0	3
June 4	An.	WI			59.460			42.00	0	8.5	3½
12	An.	WI			59.424			42.02	0	8.5	3½
Mean	1913.87		14	4	59.469	−30	11	41.28			
Corr					−0.081			+0.03			

d Boötis

			h	m	s	°	′	″			
			14	6	17.699	+25	31	3.06			
1913											
Feb. 8	R.	WII			−0.030			−0.16	0	5.0	3
15	R.	WII			−0.034			+0.21	I	5.4	2
25	R.	EII			0.000			−0.25	0	---	2
Mar. 11	R.	EII			−0.030			+1.00	0	---	2
1914											
Feb. 26	Hd.	EI			−0.018			+0.08	0	6.0	3
Mar. 20	Fn.	EI			−0.032			[−2.57][1]	0	5.0	2
Apr. 6	Fn.	WI			−0.016			−0.04	0	5.0	2½
9	Fn.	WI			−0.050			+0.44	0	5.0	2
Mean	1913.69				−0.026			+0.18			
	1913.61										
Corr					−0.081			−0.24			

Bradley 1837

			h	m	s	°	′	″			
1912											
May 13	Fn.	WII	14	7	36.448	−26	50	16.81	0	5.4	3½
18	Hd.	EII			36.454			17.25	0	6.0	3
19	R.	EII			36.535			15.78	0	6.0	4½
21	Hd.	WII			36.483			16.80	0	6.0	3
1915											
Apr. 17	An.	WI			36.509			15.90	0	6.0	3½
24	An.	WI			------			16.33	0	6.0	3
May 8	Hd.	EI			36.484			15.94	0	6.0	2½
9	Wy.	EI			36.447			16.41	0	6.0	3
June 12	An.	WI			36.466			17.23	0	6.0	3½
Mean	1913.87		14	7	36.478	−26	50	16.49			
	1914.03										
Corr					−0.081			−0.01			

κ Virginis

			h	m	s	°	′	″			
			14	8	5.581	−9	51	18.10			
1913											
Mar. 22	R.	WII			−0.012			+0.37	I	4.4	2½
29	R.	EII			+0.013			−0.28	I	4.4	4½
30	R.	EII			+0.009			−0.15	0	---	3
Apr. 6	R.	WII			+0.032			−0.35	I	4.4	2
1914											
Apr. 17	Wy.	EI			+0.020			−0.08	I	3.9	2½
21	Hd.	EI			+0.029			+0.38	I	4.4	2
May 6	Fn.	WI			+0.032			−0.09	0	---	--
11	Hd.	WI			+0.014			+0.02	I	4.4	3
Mean	1913.78				+0.017			−0.02			
Corr					−0.081			−0.14			

4 Ursæ Minoris

			h	m	s	°	′	″			
			14	9	10.997	+77	58	13.42			
1913											
Apr. 7	Fn.	WII			−0.05			−0.15	0	5.0	2½
8	R.	WII			+0.05			+1.25	I	4.9	2
21	Hd.	EII			+0.01			+0.77	I	4.4	2
24	Hd.	EII			+0.12			+0.28	I	4.4	1
1914											
May 18	Fn.	WI			+0.20			+0.42	0	5.0	2
19	Wy.	WI			−0.06			+0.77	0	6.0	3
23	Hd.	EI			+0.21			+0.09	0	6.0	2
25	Fn.	EI			+0.10			+0.31	0	5.5	3
Mean	1913.84				+0.072			+0.47			
Corr					−0.081			−0.36			

[1] Micrometer readings doubtful.

4 Ursæ Minoris s. p.

			h m s	° ′ ″			
			14 9 10.997	+77 58 13.42			
1911							
Nov. 21	Fn.	EII	−0.04	−0.53	0	---	3
22	Hd.	EII	−0.19	−1.02	I	4.4	2
Dec. 5	Hd.	WII	−0.04	−1.40	0	---	--
7	Hd.	WII	−0.15	−0.46	0	5.5	1
1915							
Sept. 22	Wy.	EI	+0.13	−0.31	0	6.0	3
24	Hd.	EI	+0.20	−0.99	0	5.5	3½
Oct. 9	Hd.	WI	−0.23	−0.37	0	6.0	3
11	Hd.	WI	−0.09	−0.22	I	4.9	3
Mean	1913.83		−0.051	−0.66			
Corr			−0.081	+0.50			

B. D.+4° 2841

			h m s	° ′ ″			
1912							
Apr. 27	R.	EII	14 10 20.792	+3 45 22.39	0	6.5	3
May 1	R.	EII	20.776	21.71	0	7.0	2
4	R.	WII	20.809	21.64	0	7.0	5
9	Fn.	WII	20.755	21.95	0	6.4	--
1915							
May 31	Wy.	WI	20.746	21.76	0	7.0	2½
June 4	An.	WI	20.752	21.93	0	6.5	2½
7	Fn.	EI	20.773	21.49	0	---	2½
8	Hd.	EI	20.770	21.75	0	7.0	2
Mean	1913.88		14 10 20.772	+3 45 21.83			
Corr			−0.081	−0.19			

Groombridge 2091

			h m s	° ′ ″			
1912							
May 24	Hd.	EII	14 10 23.52	+69 51 18.15	0	6.0	2
25	R.	EII	23.43	17.87	0	5.5	1
28	Hd.	WII	23.48	18.50	0	5.2	3
30	Fn.	WII	23.65	18.42	0	5.5	2
1915							
May 17	Hd.	EI	23.51	17.67	0	6.0	3½
19	Fn.	EI	23.45	17.07	0	5.5	2
25	Fn.	WI	23.57	17.55	0	---	2½
27	Wy.	WI	23.46	17.91	0	6.0	2½
Mean	1913.90		14 10 23.509	+69 51 17.89			
Corr			−0.081	−0.34			

B. D.+22° 2678

			h m s	° ′ ″			
1913							
Apr. 16	Hd.	WII	14 10 30.788	+22 17 35.28	0	6.5	2
17	R.	WII	30.790	35.02	0	7.0	2
22	Fn.	EII	30.764	35.18	0	6.5	2
25	Fn.	EII	30.748	35.77	0	6.5	1½
1914							
May 20	Hd.	WI	30.890	35.20	0	7.0	3
21	Fn.	WI	30.902	35.67	0	6.5	2½
26	Wy.	EI	30.924	35.26	0	7.0	3
28	Fn.	EI	30.894	34.92	0	---	2½
Mean	1913.85		14 10 30.838	+22 17 35.29			
Corr			−0.081	−0.23			

ι Virginis

			h m s	° ′ ″			
			14 11 17.591	−5 34 18.61			
1912							
May 26	Hd.	EII	+0.029	+0.28	I	3.9	2
27	Fn.	EII	+0.026	−0.16	0	4.7	3
31	Hd.	WII	+0.052	−0.54	I	3.4	2
June 1	R.	WII	+0.089	−0.41	I	---	2
1915			s	″			
Apr. 7	An.	EI	+0.038	----	0	---	2½
8	Hd.	EI	+0.119	−0.63	I	3.9	2½
13	Fn.	WI	+0.050	−1.30	I	4.4	3½
14	An.	WI	+0.055	−0.56	0	---	2½
26	Fn.	EI	+0.079	−0.53	0	5.0	2½
Mean	1914.01		+0.060	−0.48			
	1913.85						
Corr			−0.081	−0.16			

α Bootis

			h m s	° ′ ″			
			14 11 33.022	+19 38 53.72			
1911			s	″			
May 15	Fn.	WII	+0.036	+0.11	II	0.1	--
20	T.	WII	+0.008	+0.20	II	0.1	--
22	Fn.	WII	+0.016	−0.19	II	0.1	--
23	Hd.	EII	+0.043	+0.22	0	---	3
24	T.	EII	+0.032	0.00	I	−0.1	--
25	Fn.	EII	+0.067	−0.25	II	1.7	3
26	Hd.	EII	+0.033	−0.35	II	0.1	--
27	T.	EII	+0.028	+0.09	II	0.6	--
29	Fn.	WII	+0.020	+0.23	II	1.3	--
June 1	Fn.	WII	+0.015	+1.49	II	0.9	--
2	Hd.	WII	+0.048	+0.50	II	0.1	--
7	T.	WII	+0.033	+0.34	II	−0.4	3
8	Fn.	WII	+0.018	+0.39	II	0.9	2
9	Hd.	WII	+0.011	+0.74	II	0.1	--
14	T.	EII	+0.018	+0.61	0	---	--
15	Fn.	EII	+0.056	+0.52	II	0.4	2
16	Hd.	EII	+0.009	+0.11	0	---	--
20	Hd.	EII	+0.031	−0.19	II	0.1	--
Nov. *10*	*Fn.*	*EII*	*−0.011*	*−1.55*	*−1.48*	*0*	---	--
20	*R.*	*EII*	-----	*−0.79*	*−0.76*	*0*	---	--
Dec. *7*	*R.*	*WII*	*+0.072*	*−0.70*	*−0.70*	*I*	---	--
18	*R.*	*EII*	*+0.062*	*−0.20*	*−0.21*	*0*	---	--
27	*Hd.*	*EII*	*+0.016*	*+0.36*	*+0.37*	*II*	---	*3*
1912								
Jan. *1*	*R.*	*EII*	-----	*−0.29*	*−0.30*	*0*	---	--
4	*R.*	*EII*	-----	*+1.96*	*+2.00*	*0*	---	--
9	*Fn.*	*EII*	*−0.006*	*−0.14*	*−0.05*	*II*	---	*3*
May 3	Hd.	EII	+0.056		----	III	0.5	2
19	R.	EII	+0.061		----	II	1.1	4
June 3	Fn.	WII	+0.069		−0.31	II	0.7	1½
5	R.	EII	+0.052		+0.43	III	0.5	1½
7	Hd.	EII	+0.047		----	I	---	2
Nov. *7*	*Hd.*	*WII*	-----	*−0.57*	*−0.49*	*0*	---	*3*
10	*R.*	*EII*	*+0.042*	*−0.68*	*−0.54*	*I*	---	*5*
11	*Fn.*	*EII*	*+0.063*	*+0.41*	*+0.40*	*0*	---	*3½*
15	*Hd.*	*EII*	*+0.106*	*+0.55*	*+0.62*	*I*	---	*3*
18	*R.*	*EII*	*+0.078*	*+0.15*	*+0.21*	*I*	---	--
20	*R.*	*EII*	*+0.067*	*−0.29*	*−0.13*	*II*	---	--
22	*Hd.*	*EII*	*+0.054*	*−0.06*	*−0.06*	*I*	---	*2*
25	*Hd.*	*WII*	*+0.009*	*−0.03*	*+0.01*	*I*	---	*2½*
26	*Fn.*	*WII*	-----	*−0.04*	*−0.04*	*0*	---	*3½*
28	*Fn.*	*WII*	*+0.041*	*+0.13*	*+0.18*	*I*	---	*3*
29	*Hd.*	*WII*	*+0.078*	*+0.19*	*+0.18*	*I*	---	*3*
Dec. *2*	*R.*	*WII*	*+0.002*	*+0.09*	*+0.11*	*0*	---	--
8	*Fn.*	*WII*	*+0.060*	----	----	*I*	---	*3*
9	*R.*	*WII*	-----	*+0.22*	*+0.25*	*II*	---	*2½*
11	*R.*	*EII*	*+0.021*	*+1.10*	*+1.14*	*II*	---	*2*
12	*Hd.*	*EII*	*−0.010*	*+0.35*	*+0.36*	*II*	---	*2*
13	*R.*	*EII*	*+0.062*	*+0.63*	*+0.69*	*II*	---	*2½*
19	*Fn.*	*EII*	*+0.094*	*+0.25*	*+0.28*	*I*	---	*3*
20	*R.*	*EII*	*+0.010*	*+0.25*	*+0.26*	*II*	---	*2*
22	*Fn.*	*WII*	*+0.013*	*+0.26*	*+0.20*	*I*	---	*3*
25	*R.*	*WII*	-----	*+0.30*	*+0.39*	*II*	---	*2½*
1913								
Feb. 8	R.	WII	+0.035		−0.17	II	1.1	3
25	R.	EII	+0.046		+0.14	II	1.1	3
Mar. 11	R.	EII	+0.046		+0.90	III	−0.5	2
22	R.	WII	+0.072		+0.79	III	−0.5	2½
Apr. 17	R.	WII	+0.054		----	III	−0.5	1½
19	R.	WII	+0.057		----	III	0.0	2
20	R.	WII	+0.087		----	III	0.0	2
30	R.	EII	+0.029		+0.64	III	0.0	2½

1913				s	"	"			
May	1	Hd.	EII	+0.070		----	III	−0.5	2
	2	Fn.	EII	+0.049		----	II	0.1	2
	3	R.	EII	+0.053		+1.68	II	---	2
	5	Hd.	EII	+0.059		----	III	0.0	2
	6	Fn.	EII	+0.104		+0.33	I	---	2
	12	Hd.	WII	+0.052		----	0	---	2
	15	Hd.	WII	+0.028		----	III	−0.5	2
	19	Hd.	WII	+0.048		----	III	−0.5	2
	28	R.	WII	+0.041		+0.51	III	−0.5	2½
	29	Hd.	WII	+0.053		+0.34	II	---	2
	31	R.	WII	+0.030		−0.25	III	−0.5	3½
June	2	Hd.	WII	−0.005		+0.48	III	−0.5	2
	5	Hd.	WII	+0.072		+0.80	III	−0.5	2
	6	Fn.	WII	+0.051		−0.07	II	0.5	2
	10	R.	WII	+0.045		−0.17	III	−0.5	1½
	11	Fn.	EII	+0.038		+0.37	I	---	2½
	19	Hd.	EII	+0.042		−0.14	III	---	2
Nov.	*4*	*Hd.*	*EI*	*+0.060*	*−0.77*	*−0.67*	*0*	---	*4*
	5	*Fn.*	*EI*	*−0.019*	*−0.21*	*−0.11*	*0*	---	*3*
	6	*R.*	*EI*	*+0.076*	*−0.86*	*−0.79*	*II*	---	*4½*
	11	*Hd.*	*WI*	*+0.047*	*−0.41*	*−0.35*	*0*	---	*4*
	16	*Fn.*	*WI*	*+0.047*	*−0.09*	*−0.08*	*0*	---	*4*
	17	*R.*	*WI*	-----	*−0.93*	*−0.81*	*I*	---	--
	18	*Hd.*	*WI*	*+0.081*	*+0.18*	*+0.27*	*I*	---	*3½*
	20	*R.*	*WI*	*+0.103*	*−0.75*	*−0.67*	*I*	---	--
	21	*Hd.*	*WI*	*+0.066*	*−0.29*	*−0.23*	*I*	---	*3*
	23	*Fn.*	*WI*	*+0.077*	*+1.55*	*+1.59*	*0*	---	*3½*
	24	*R.*	*EI*	*+0.107*	*−0.06*	*0.00*	*II*	---	--
Dec.	*1*	*R.*	*EI*	-----	*−1.27*	*−1.24*	*II*	---	--
	3	*Fn.*	*EI*	*+0.081*	*−0.56*	*−0.56*	*0*	---	*3*
	4	*Fn.*	*EI*	*+0.070*	*−0.53*	*−0.53*	*0*	---	*3*
	5	*Hd.*	*EI*	*+0.045*	*−0.26*	*−0.25*	*II*	---	*2*
	8	*R.*	*EI*	*+0.011*	*−0.79*	*−0.78*	*II*	---	--
	11	*R.*	*EI*	*+0.066*	*−1.44*	*−1.40*	*II*	---	--
	12	*Hd.*	*EI*	*+0.020*	*−0.30*	*−0.34*	*I*	---	*3*
	14	*Fn.*	*WI*	*−0.026*	*+0.22*	*+0.25*	*0*	---	*2*
	16	*Hd.*	*WI*	*+0.089*	*+0.43*	*+0.49*	*II*	---	*3*
	17	*Fn.*	*WI*	*+0.086*	*+0.69*	*+0.70*	*I*	---	*2*
	18	*R.*	*WI*	*+0.036*	*+0.70*	*+0.73*	*I*	---	--
	19	*Hd.*	*WI*	*+0.011*	*+0.46*	*+0.50*	*II*	---	*2*
1914									
Jan.	28	Fn.	WI	+0.077		−0.20	II	0.6	2
	31	Fn.	WI	+0.091		−0.21	II	0.6	2½
Feb.	7	Wy.	EI	+0.050		----	II	1.1	3
	21	Wy.	WI	+0.023		+0.29	II	0.6	2
	26	Hd.	EI	+0.043		----	II	1.1	2
	27	Fn.	EI	+0.057		----	II	0.1	2
Mar.	3	Fn.	WI	+0.072		----	II	0.1	3½
	12	Hd.	WI	+0.042		+0.71	0	---	3
	13	Fn.	WI	+0.022		----	II	0.1	2
	14	Wy.	WI	+0.014		----	I	---	3
	20	Fn.	EI	+0.078		----	II	0.1	2
	23	Hd.	EI	+0.034		----	II	---	3
	24	Fn.	EI	+0.024		----	II	0.1	2
	26	Hd.	EI	+0.060		----	III	---	2
Apr.	3	Fn.	WI	+0.023		----	II	0.1	1½
	23	Wy.	EI	+0.062		----	II	1.1	2
May	7	Wy.	WI	+0.097		----	I	---	3
	15	Wy.	WI	+0.044		----	I	---	3
June	2	Fn.	EI	+0.047		−0.15	II	0.6	2
	3	Wy.	EI	+0.033		−0.17	II	---	2½
	5	Fn.	EI	+0.037		−0.60	II	---	2
	6	Wy.	EI	+0.074		+0.45	I	---	2
	8	Fn.	EI	+0.060		−0.23	II	---	2
	9	Wy.	EI	+0.046		+0.09	II	---	2½
	10	Hd.	EI	+0.031		−0.15	I	---	2
	13	Wy.	EI	+0.067		−0.27	I	---	2
	15	Fn.	EI	−0.001		−0.28	I	---	2
	16	Hd.	EI	+0.064		+0.05	III	---	1½
Sept.	*14*	*Fn.*	*EI*	*−0.005*	*−0.37*	*−0.19*	*0*	---	*3½*
	21	*Hd.*	*EI*	*−0.008*	*−1.73*	*−1.66*	*II*	---	*3*
	22	*Wy.*	*EI*	*+0.012*	*+0.04*	*+0.13*	*I*	---	*3½*
	23	*An.*	*EI*	*+0.055*	*−1.44*	*−1.35*	*I*	---	*5*
	28	*Hd.*	*WI*	*+0.096*	*+0.61*	*+0.70*	*I*	---	*3*
	29	*Wy.*	*WI*	*+0.039*	*−0.02*	*+0.10*	*0*	---	--
	30	*An.*	*WI*	*+0.017*	*+0.58*	*+0.60*	*I*	---	*3½*
Oct.	*2*	*Wy.*	*WI*	*−0.012*	*−0.32*	*−0.21*	*I*	---	*4*
	5	*Wy.*	*WI*	*+0.039*	*+0.08*	*+0.22*	*I*	---	*3½*

1914				s	"	"			
Oct.	*10*	*An.*	*WI*	*+0.069*	----	----	*I*	---	*4*
	17	*An.*	*EI*	*+0.014*	*−0.54*	*−0.45*	*I*	---	*4*
	21	*An.*	*EI*	*+0.056*	----	----	*II*	---	*3½*
	22	*Hd.*	*EI*	*+0.092*	----	----	*I*	---	*3½*
	30	*An.*	*EI*	*+0.020*	*−0.20*	*−0.07*	*I*	---	*3½*
Nov.	*1*	*Fn.*	*WI*	*+0.052*	*+0.59*	*+0.69*	*0*	---	*4*
	2	*An.*	*WI*	*−0.005*	*+0.43*	*+0.54*	*0*	---	*4*
	3	*Hd.*	*WI*	*+0.046*	*−0.34*	*−0.29*	*0*	---	*4*
	4	*Fn.*	*WI*	*+0.058*	*+0.44*	*+0.60*	*0*	---	--
	6	*Hd.*	*WI*	*+0.094*	*−0.10*	*−0.05*	*0*	---	*3½*
	9	*Fn.*	*WI*	*+0.101*	*+0.86*	*+0.96*	*0*	---	*4*
	10	*An.*	*WI*	*+0.040*	*−0.49*	*−0.35*	*I*	---	*4*
	11	*Hd.*	*WI*	-----	*−0.18*	*−0.12*	*I*	---	*3*
	12	*Fn.*	*WI*	*+0.029*	*+0.32*	*+0.30*	*0*	---	*3½*
	13	*An.*	*WI*	-----	*+0.08*	*+0.16*	*0*	---	*3½*
	17	*Fn.*	*EI*	*+0.030*	*−1.22*	*−1.14*	*0*	---	*3½*
	19	*Wy.*	*EI*	*+0.033*	*−0.74*	*−0.72*	*I*	---	*3½*
	20	*Fn.*	*EI*	*+0.055*	*−0.26*	*−0.20*	*0*	---	*3½*
	22	*Fn.*	*EI*	-----	*−0.60*	*−0.56*	*0*	---	*3½*
	23	*Hd.*	*EI*	*+0.082*	*−0.73*	*−0.64*	*I*	---	*3*
	25	*Wy.*	*EI*	*+0.038*	*−0.38*	*−0.40*	*0*	---	*4*
	27	*Wy.*	*EI*	*+0.060*	*+0.16*	*+0.22*	*I*	---	*3½*
Dec.	*11*	*An.*	*WI*	*+0.064*	*+0.37*	*+0.40*	*III*	---	*2½*
	13	*Fn.*	*WI*	*+0.034*	*−0.17*	*−0.17*	*0*	---	*3*
	15	*An.*	*WI*	*+0.092*	*+0.42*	*+0.45*	*II*	---	*2½*
	16	*Fn.*	*WI*	*−0.047*	*+1.18*	*+1.22*	*I*	---	*2½*
	17	*Hd.*	*WI*	*+0.073*	*+0.35*	*+0.36*	*II*	---	*2*
	22	*Hd.*	*WI*	*+0.031*	*+1.01*	*+0.99*	*II*	---	*3½*
1915									
Jan.	8	Hd.	EI	+0.027		----	I	---	2
	12	An.	WI	−0.019		----	II	1.1	4
Apr.	6	Wy.	EI	+0.082		----	II	---	3
	23	Wy.	WI	+0.046		----	II	0.1	2½
May	3	Fn.	EI	+0.044		----	II	0.1	3
	4	Wy.	EI	+0.065		----	II	1.1	3
	5	Hd.	EI	+0.052		----	II	1.1	3
	8	Hd.	EI	+0.035		----	III	0.0	2
	9	Wy.	EI	+0.064		----	III	0.0	2½
	10	Hd.	EI	+0.060		----	III	0.0	2
	11	Fn.	EI	+0.057		−0.44	0	---	2
	14	Fn.	WI	+0.053		+0.74	II	---	2½
June	9	An.	EI	+0.037		−0.21	III	0.5	2½
	10	Fn.	EI	+0.040		−0.16	II	0.6	2½
	12	An.	WI	+0.020		----	III	0.5	2
	17	Fn.	WI	+0.014		+0.69	II	0.1	2½
	19	Wy.	WI	+0.051		+0.18	III	0.0	3
	20	An.	EI	+0.041		----	III	0.5	2½
Aug.	*10*	*Fn.*	*EI*	*+0.092*	----	----	*0*	---	*3*
	24	*Wy.*	*WI*	*−0.003*	----	----	*I*	---	*3½*
Sept.	*9*	*Hd.*	*WI*	*−0.022*	----	----	*I*	---	*3½*
	21	*Wy.*	*EI*	*+0.103*	----	----	*I*	---	*3½*
Oct.	*25*	*Hd.*	*WI*	*+0.044*	*−0.24*	*−0.10*	*I*	---	*3½*
	26	*Fn.*	*WI*	-----	*+0.95*	*+1.02*	*0*	---	--
	27	*Wy.*	*WI*	*+0.053*	*+0.05*	*+0.18*	*I*	---	*3½*
	28	*Hd.*	*EI*	*+0.027*	*−0.38*	*−0.17*	*I*	---	*3½*
	29	*Wy.*	*EI*	*+0.073*	----	----	*I*	---	*4*
Nov.	*2*	*Hd.*	*EI*	*+0.123*	*−0.42*	*−0.37*	*I*	---	*3½*
	4	*Wy.*	*EI*	*+0.090*	*−0.66*	*−0.62*	*I*	---	*3½*
	5	*Hd.*	*EI*	*+0.024*	*−1.01*	*−0.84*	*I*	---	*3½*
	9	*Fn.*	*WI*	*+0.019*	*−1.49*	*−1.37*	*0*	---	*3½*
	12	*Fn.*	*WI*	*+0.065*	*−0.69*	*−0.62*	*0*	---	*3½*
	15	*Fn.*	*WI*	*+0.057*	*−0.27*	*−0.21*	*0*	---	*3½*
	16	*Wy.*	*WI*	*+0.029*	*−0.54*	*−0.52*	*I*	---	*3½*
	17	*Hd.*	*WI*	-----	*−0.06*	*+0.02*	*II*	---	*2½*
	21	*Fn.*	*EI*	*+0.110*	*−0.23*	*−0.17*	*0*	---	*3½*
	23	*Hd.*	*EI*	*+0.033*	*−1.59*	*−1.56*	*II*	---	*3*
	25	*Wy.*	*EI*	*+0.047*	*−0.79*	*−0.72*	*0*	---	*4*
	29	*Fn.*	*EI*	*+0.042*	*+0.09*	*+0.12*	*I*	---	*3*
	30	*Wy.*	*EI*	-----	*−0.43*	*−0.40*	*II*	---	*3*
Dec.	*2*	*Fn.*	*EI*	*+0.104*	*+0.31*	*+0.33*	*0*	---	*3*
	3	*Hd.*	*EI*	*+0.094*	*−0.41*	*−0.40*	*II*	---	*2*
	6	*Wy.*	*WI*	*−0.003*	*+0.26*	*+0.26*	*I*	---	*3*
	9	*Wy.*	*WI*	*+0.015*	*−0.11*	*−0.09*	*I*	---	*3*
	10	*Fn.*	*WI*	-----	*−0.33*	*−0.28*	*I*	---	*2½*
	14	*Fn.*	*WI*	*+0.026*	*+0.51*	*+0.53*	*I*	---	*3*
	19	*Hd.*	*WI*	-----	*+0.04*	*+0.06*	*II*	---	*2½*
	20	*Fn.*	*WI*	*+0.037*	*+0.14*	*+0.17*	*I*	---	*3*
	22	*Wy.*	*WI*	*+0.061*	*+0.40*	*+0.42*	*I*	---	*3*

				s	"	"			
1916									
June	2	Hd.	EI	+0.043		+0.07	II	2.1	3
	12	Wy.	EI	+0.036		+0.07	II	1.1	2½
	13	Fn.	EI	+0.046		−0.19	I	---	2½
	17	Wy.	WI	+0.049		+0.94	III	0.0	3
	19	Fn.	WI	+0.062		----	0	---	3½
	20	Hd.	WI	+0.025		+0.43	III	0.0	3
	22	Fn.	WI	+0.051		+0.39	II	0.6	2
	23	Hd.	WI	+0.060		+0.89	III	−0.5	2
	26	Hd.	WI	+0.066		+0.53	III	−0.5	2
	27	*Wy.*	*WI*	*+0.080*	*+0.37*	*+0.37*	*II*	---	*3*
	29	*Hd.*	*WI*	*+0.062*	*−0.12*	*−0.11*	*II*	---	*2*
July	*3*	*Wy.*	*WI*	*+0.036*	*+0.36*	*+0.35*	*II*	---	*3*
	6	*Wy.*	*EI*	*+0.024*	*−0.16*	*−0.17*	*II*	---	*2½*
	7	*Fn.*	*EI*	*+0.021*	*−0.72*	*−0.71*	*II*	---	*2*
	11	*Fn.*	*EI*	*−0.011*	*−0.25*	*−0.21*	*I*	---	*2½*
	13	*Hd.*	*EI*	*+0.027*	*−1.04*	*−1.01*	*I*	---	*2*
	14	*Fn.*	*EI*	*+0.025*	*−0.47*	*−0.45*	*I*	---	*2½*
	27	*Fn.*	*WI*	*+0.042*	*+0.18*	*+0.20*	*I*	---	*2½*
Aug.	*4*	*Fn.*	*WI*	*+0.042*	*−0.50*	*−0.46*	*0*	---	*3½*
	7	*Wy.*	*EI*	*−0.010*	*−0.98*	*−0.93*	*II*	---	*3*
	8	*Fn.*	*EI*	*−0.041*	*−0.69*	*−0.63*	*0*	---	*3½*
	14	*Fn.*	*EI*	*−0.043*	*−0.52*	*−0.45*	*0*	---	*3½*
	17	*Fn.*	*EI*	*+0.044*	*−0.76*	*−0.73*	*0*	---	*3½*
	21	*Wy.*	*EI*	*−0.060*	*−1.33*	*−1.31*	*I*	---	*3½*
	22	*Fn.*	*EI*	*+0.052*	*−0.65*	*−0.60*	*0*	---	*3½*
	24	*Wy.*	*WI*	*+0.029*	*+0.22*	*+0.28*	*II*	---	*3½*
	25	*Fn.*	*WI*	*−0.006*	*−0.13*	*−0.06*	*0*	---	*3½*
Sept.	*3*	*Fn.*	*WI*	*−0.016*	*−0.55*	*−0.50*	*0*	---	*3½*
	5	*Wy.*	*WI*	*+0.004*	*−0.51*	*−0.50*	*I*	---	*3½*
	11	*Hd.*	*WI*	*+0.050*	*+0.35*	*+0.44*	*I*	---	*3½*
	18	*Wy.*	*EI*	*−0.005*	*−1.12*	*−1.08*	*I*	---	*3½*
	19	*Hd.*	*EI*	*−0.016*	*−0.93*	*−0.87*	*I*	---	*3½*
	20	*Wy.*	*EI*	*+0.025*	*−1.60*	*−1.59*	*I*	---	*3½*
	22	*Hd.*	*EI*	*+0.043*	*−1.23*	*−1.18*	*0*	---	*3*
	26	*Hd.*	*EI*	*+0.007*	*−1.16*	*−1.03*	*I*	---	*3½*
Oct.	*9*	*Hd.*	*WI*	*+0.061*	*+0.12*	*+0.17*	*I*	---	*3*
	12	*Hd.*	*WI*	*+0.061*	*−0.48*	*−0.40*	*I*	---	*3*
	17	*Fn.*	*WI*	*−0.080*	----	----	*0*	---	*3½*
	24	*Hd.*	*WI*	*+0.022*	*−0.34*	*−0.18*	*I*	---	*3½*
	26	*Wy.*	*EI*	*+0.114*	*−1.56*	*−1.49*	*I*	---	*3½*
	27	*Hd.*	*EI*	*+0.055*	*−1.06*	*−0.93*	*I*	---	*3½*
Nov.	*1*	*Hd.*	*EI*	*−0.007*	*−1.43*	*−1.32*	*I*	---	*3½*
	2	*Fn.*	*EI*	*+0.097*	*−0.98*	*−0.87*	*0*	---	*3½*
	6	*Wy.*	*EI*	*+0.024*	----	----	*0*	---	*4*
	8	*Wy.*	*EI*	*+0.006*	*−0.43*	*−0.42*	*I*	---	*3½*
	15	*Wy.*	*WI*	*+0.059*	*−0.31*	*−0.26*	*I*	---	*3½*
	16	*Hd.*	*WI*	*+0.026*	*+0.17*	*+0.22*	*I*	---	*3*
	19	*Fn.*	*WI*	*+0.116*	*−0.65*	*−0.64*	*0*	---	*3½*
	23	*Fn.*	*WI*	*+0.026*	*+0.22*	*+0.22*	*0*	---	*3½*
	26	*Wy.*	*WI*	*+0.029*	*+0.34*	*+0.40*	*II*	---	*4*
Dec.	*6*	*Fn.*	*EI*	*+0.053*	*+0.31*	*+0.32*	*I*	---	*3*
	7	*Hd.*	*EI*	*+0.030*	*−0.69*	*−0.67*	*II*	---	*3*
	25	*Fn.*	*WI*	*+0.037*	*−0.54*	*−0.54*	*I*	---	*2½*
	28	*Hd.*	*WI*	*+0.054*	*+0.51*	*+0.48*	*I*	---	*3*
1917									
Jan.	*1*	*Wy.*	*WI*	*+0.068*	*+0.60*	*+0.56*	*II*	---	*3½*
	3	*Wy.*	*WI*	-----	*+1.33*	*+1.36*	*I*	---	*3*
	8	*Fn.*	*EI*	*+0.096*	*−1.14*	*−1.08*	*II*	---	*3½*
	18	Fn.	EI	+0.065		−1.52	I	---	2½
May	10	Fn.	WI	+0.070		+0.59	II	1.6	2½
	11	Wy.	WI	+0.040		+0.66	II	1.6	2½
	14	Wy.	WI	+0.054		+0.84	II	1.1	3
June	4	Wy.	WI	+0.060		+0.48	III	0.5	2½
	19	Fn.	WII	+0.024		+0.87	II	0.1	2½
	21	Wy.	WII	+0.034		+0.36	II	---	2½
	25	Wy.	WII	+0.045		+0.23	III	0.0	2½
July	*6*	*Fn.*	*EII*	*+0.056*	*+0.24*	*+0.26*	*I*	---	*2*
	30	*Wy.*	*EII*	*+0.020*	*+0.01*	*+0.03*	*II*	---	*3*
Aug.	*13*	*Fn.*	*WII*	*+0.001*	*+0.17*	*+0.17*	*0*	---	*3*
	20	*Fn.*	*WII*	*+0.023*	*+0.08*	*+0.10*	*0*	---	*3*
	21	*Wy.*	*WII*	*−0.010*	*+0.01*	*+0.02*	*I*	---	*3*
Sept.	*4*	*Fn.*	*EII*	*+0.024*	*−0.20*	*−0.14*	*0*	---	*3½*
	11	*Fn.*	*EII*	*+0.024*	*+0.28*	*+0.38*	*0*	---	*3½*
	13	*Hd.*	*EII*	*+0.073*	*−0.59*	*−0.54*	*I*	---	*3½*
	17	*Hd.*	*EII*	*+0.029*	*−0.18*	*−0.13*	*II*	---	*3*
	18	*Wy.*	*EII*	*+0.060*	*+0.16*	*+0.21*	*II*	---	*3½*
	20	*Hd.*	*WII*	*+0.049*	*−1.28*	*−1.20*	*I*	---	*3½*
Oct.	*2*	*Fn.*	*WII*	*+0.045*	*−0.57*	*−0.38*	*0*	---	*3½*

				s	"	"			
1917									
Oct.	*15*	*Fn.*	*EII*	*−0.014*	----	----	*0*	---	*3½*
	26	*Fn.*	*EII*	*+0.051*	*+0.16*	*+0.25*	*0*	---	*3½*
	31	*Hd.*	*EII*	*+0.066*	*−1.60*	*−1.47*	*I*	---	*4*
Nov.	*1*	*Fn.*	*EII*	*+0.065*	*−0.82*	*−0.69*	*0*	---	*3½*
	14	*Wy.*	*WII*	*+0.029*	*−1.07*	*−1.03*	*I*	---	*3½*
	16	*Fn.*	*WII*	*+0.082*	----	----	*0*	---	*3½*
	19	*Fn.*	*WII*	*+0.038*	*−0.04*	*+0.02*	*0*	---	*3½*
	25	*Hd.*	*WII*	-----	*−0.34*	*−0.29*	*II*	---	*3½*
	26	*Wy.*	*WII*	-----	*−0.19*	*−0.12*	*I*	---	*3½*
Dec.	*9*	*Fn.*	*WII*	*−0.002*	----	----	*I*	---	*3*
	20	*Wy.*	*EII*	*+0.037*	*−0.10*	*−0.07*	*II*	---	*3*
	23	*Fn.*	*EII*	*+0.086*	*−0.22*	*−0.21*	*I*	---	*2½*
	26	*Fn.*	*EII*	*+0.052*	*0.00*	*+0.02*	*0*	---	*3*
1918									
Jan.	9	Fn.	EII	+0.033		+0.65	II	---	3
May	15	Fn.	WII	+0.033		+0.76	II	1.1	2
June	19	Wy.	WII	+0.022		−0.04	III	0.5	2
	24	Wy.	WII	+0.045		−0.35	II	1.1	2½
	27	*Wy.*	*WII*	*+0.037*	*+0.40*	*+0.40*	*III*	---	*2½*
	28	*Hd.*	*WII*	*+0.030*	*+0.12*	*+0.13*	*II*	---	*2*
July	*1*	*Wy.*	*WII*	*−0.008*	*+0.20*	*+0.21*	*II*	---	*2½*
	2	*Hd.*	*WII*	*+0.058*	*+0.41*	*+0.38*	*II*	---	*2*
	9	*Hd.*	*EII*	*+0.023*	*0.00*	*+0.02*	*II*	---	*3*
	15	*Wy.*	*EII*	*+0.062*	*+0.34*	*+0.33*	*II*	---	*2½*
	16	*Hd.*	*EII*	*+0.026*	*+0.04*	*+0.08*	*0*	---	*2*
	23	*Fn.*	*EII*	*+0.052*	*+0.22*	*+0.27*	*I*	---	*2*
	25	*Fn.*	*EII*	*+0.059*	*+0.21*	*+0.24*	*I*	---	*3*
Aug.	*15*	*Fn.*	*WII*	*−0.037*	*−0.14*	*−0.09*	*I*	---	*3½*
Mean			1914.24	+0.045		+0.23			
			1914.23						
Corr				−0.081		−0.23			

λ Boötis

				h	m	s	°	′	″			
				14	12	57.749	+46	30	5.11			
1913												
Mar.	18	R.	WII			+0.004			+0.15	I	3.9	2
	20	R.	WII			−0.021			+0.09	0	---	2½
	28	Fn.	EII			−0.059			+0.42	I	4.1	1½
	29	R.	EII			−0.087			+0.08	I	4.9	2½
1914												
May	15	Wy.	WI			-----			+1.12	0	---	3
	16	Fn.	WI			+0.015			+0.61	I	3.9	2
	20	Hd.	WI			−0.025			−0.07	I	4.4	3
	25	Fn.	EI			+0.010			+0.01	0	---	2½
	29	Hd.	EI			−0.044			+0.43	0	---	2
1915												
Apr.	23	Wy.	WI			−0.017			----	I	---	2½
May	3	Fn.	EI			−0.007			----	0	4.5	3
1916												
Mar.	3	Hd.	WI			−0.020			----	I	4.4	2
Mean			1914.30			−0.023			+0.32			
			1913.87									
Corr						−0.081			−0.28			

ι Boötis

				h	m	s	°	′	″			
1912												
May	2	Fn.	EII	14	12	58.736	+51	46	55.63	0	5.3	2½
	3	Hd.	EII			58.772			55.87	0	---	2
	10	Hd.	WII			58.748			55.95	I	4.4	3
	13	Fn.	WII			58.782			55.82	0	5.2	1½
	20	Fn.	EII			58.724			56.17	0	5.2	2½
1915												
Apr.	24	An.	WI			-----			56.59	I	5.4	2
May	5	Hd.	EI			58.693			56.34	0	5.5	3
	8	Hd.	EI			58.676			56.45	I	4.9	2
	25	Fn.	WI			58.700			56.20	0	---	2½
	27	Wy.	WI			58.631			56.43	0	5.0	2
Mean			1913.70	14	12	58.718	+51	46	56.14			
			1913.86									
Corr						−0.081			−0.26			

Oeltzen 14435

				h	m	s	°	′	″			
1913												
May	5	Hd.	EII	14	13	5.454	+57	6	30.79	0	6.0	2
	8	Hd.	EII			5.463			30.87	0	6.2	2
	15	Hd.	WII			5.440			31.75	0	6.5	2
	20	Fn.	WII			5.404			31.27	0	6.7	2
1914												
Apr.	21	Hd.	EI			5.426			31.29	0	6.5	2
May	2	Fn.	WI			-----			31.77	0	6.0	2½
	6	Fn.	WI			5.492			31.28	0	6.5	2½
	11	Hd.	WI			5.527			31.69	0	6.5	3
	23	Hd.	EI			5.503			30.76	0	6.5	2
Mean		1913.85		14	13	5.464	+57	6	31.27			
		1913.91										
Corr						−0.081			−0.31			

B. D.−6° 3964

				h	m	s	°	′	″			
1913												
Apr.	17	R.	WII	14	13	13.971	−7	7	15.72	0	7.0	2
	19	R.	WII			13.947			15.45	0	6.5	2½
May	1	Hd.	EII			13.934			15.64	0	6.5	2
	2	Fn.	EII			13.929			14.33	0	6.7	3
1914												
Mar.	26	Hd.	EI			13.954			15.35	0	6.5	2½
Apr.	3	Fn.	WI			13.943			15.18	0	7.0	2½
	6	Fn.	WI			13.946			15.93	0	7.0	3
	13	Fn.	EI			13.981			15.12	0	6.5	2½
Mean		1913.79		14	13	13.951	−7	7	15.34			
Corr						−0.081			−0.15			

Cape 1850, 2538

				h	m	s	°	′	″			
1912												
May	18	Hd.	EII	14	13	39.467	−18	17	58.92	0	7.2	3
	19	R.	EII			39.495			58.58	0	7.5	4
	28	Hd.	WII			39.485			59.38	0	7.0	2
	31	Hd.	WII			39.543			59.20	0	6.0	--
1915												
June	4	An.	WI			39.474			58.85	0	7.5	3
	10	Fn.	EI			39.576			58.63	0	6.5	3
	12	An.	WI			39.448			59.65	0	6.5	3
	20	An.	EI			39.488			58.79	0	6.0	3
Mean		1913.92		14	13	39.497	−18	17	59.00			
Corr						−0.081			−0.09			

λ Virginis

				h	m	s	°	′	″			
				14	14	14.219	−12	57	25.90			
1913												
Apr.	20	R.	WII			+0.106			−0.03	0	5.5	--
	21	Hd.	EII			+0.076			−0.41	I	4.4	3
	24	Hd.	EII			+0.050			+0.44	I	4.4	1
May	19	Hd.	WII			+0.086			+0.30	I	4.4	3
1914												
Mar.	20	Fn.	EI			+0.055			−0.64	0	5.0	2½
	23	Hd.	EI			+0.044			+0.38	0	---	3
Apr.	9	Fn.	WI			+0.049			+0.42	0	4.5	3
	10	Wy.	WI			+0.068			−0.13	0	---	5
Mean		1913.78				+0.067			+0.04			
Corr						−0.081			−0.12			

Bradley 1853

				h	m	s	°	′	″			
1913												
Apr.	6	R.	WII	14	14	54.967	+13	25	9.15	0	6.0	2
	8	R.	WII			54.937			8.82	0	6.0	2½
	25	Fn.	EII			54.946			8.73	0	6.0	1½
	30	R.	EII			54.940			8.21	0	6.0	2½
1914												
Feb.	26	Hd.	EI			54.971			8.59	0	6.0	2
	27	Fn.	EI			54.917			8.75	0	6.0	2
Mar.	3	Fn.	WI			54.948			9.53	0	5.5	3½
	13	Fn.	WI			54.969			8.16	0	5.5	1½
Mean		1913.73		14	14	54.949	+13	25	8.74			
Corr						−0.081			−0.22			

Groombridge 2098

				h	m	s	°	′	″			
1912												
Apr.	27	R.	EII	14	15	21.756	+42	25	14.40	0	7.0	2
May	1	R.	EII			21.642			14.30	0	---	--
	4	R.	WII			21.757			13.94	0	7.5	3
	9	Fn.	WII			21.802			14.13	0	---	2
1915												
Apr.	17	An.	WI			21.714			14.57	0	7.0	2
	19	Fn.	WI			21.739			14.85	0	---	3
May	9	Wy.	EI			21.752			14.08	0	6.5	2½
	10	Hd.	EI			21.745			14.02	0	7.0	2
Mean		1913.83		14	15	21.738	+42	25	14.29			
Corr						−0.081			−0.27			

Lalande 26239

				h	m	s	°	′	″			
1911												
May	20	T.	WII	14	16	12.522	+30	50	31.35	0	---	--
	22	Fn.	WII			12.448			31.32	0	7.0	--
	24	T.	EII			12.514			30.74	0	---	--
	25	Fn.	EII			12.505			30.70	0	---	--
1915												
May	19	Fn.	EI			12.509			31.25	0	6.5	2
	27	Wy.	WI			12.525			30.82	0	7.0	2
	31	Wy.	WI			12.524			31.29	0	---	2½
June	7	Fn.	EI			12.516			31.20	0	7.0	3
Mean		1913.40		14	16	12.508	+30	50	31.08			
Corr						−0.081			−0.25			

2 Libræ

				h	m	s	°	′	″			
				14	18	34.909	−11	18	12.28			
1911												
May	26	Hd.	EII			+0.074			−0.01	0	6.5	--
	27	T.	EII			+0.013			−0.62	0	6.5	--
	29	Fn.	WII			+0.030			−0.33	0	---	--
June	1	Fn.	WII			0.000			+0.59	0	6.5	--
1915												
Apr.	7	An.	EI			+0.044			−0.59	0	6.0	3
	8	Hd.	EI			+0.125			−0.15	0	---	2½
	13	Fn.	WI			+0.106			−0.12	0	6.5	3½
	14	An.	WI			+0.080			−0.83	0	6.5	3
Mean		1913.34				+0.059			−0.26			
Corr						−0.081			−0.14			

Weisse$_1$ XIV 301

				h	m	s	°	′	″			
1911												
June	2	Hd.	WII	14	19	34.676	+8	39	9.52	0	7.2	--
	7	T.	WII			34.672			8.95	0	---	--
	8	Fn.	WII			34.682			8.42	0	---	2
	9	Hd.	WII			34.673			8.80	0	6.8	--
	15	Fn.	EII			34.649			9.37	0	7.3	2
	20	Hd.	EII			34.680			8.58	0	6.5	--
1915												
May	10	Hd.	EI			34.669			9.58	0	6.5	3
	14	Fn.	WI			34.653			9.75	0	6.5	2½
	17	Hd.	EI			34.690			9.43	0	6.0	3½
	27	Wy.	WI			34.700			9.14	0	---	2½
Mean		1913.02		14	19	34.674	+8	39	9.15			
Corr						−0.081			−0.21			

3 G. Libræ

				h	m	s	°	′	″			
1913												
Apr.	8	R.	WII	14	19	40.439	−24	23	54.69	0	5.5	4
	16	Hd.	WII			40.342			53.69	0	6.0	3½
	21	Hd.	EII			40.356			54.33	0	5.5	3
	22	Fn.	EII			40.355			55.37	0	6.5	3½
	24	Hd.	EII			40.302			53.81	0	6.0	2

			h m s	° ′ ″			
1914							
Apr. 10	Wy.	WI	40.327	54.22	0	6.5	3
13	Fn.	EI	40.351	53.66	0	6.0	3
17	Wy.	EI	40.395	54.18	0	6.0	3
May 2	Fn.	WI	40.336	54.21	0	6.0	3
Mean	1913.74		14 19 40.356	−24 23 54.24			
Corr			−0.081	−0.04			

Weisse$_1$ XIV 315

			h m s	° ′ ″			
1913							
Mar. 20	R.	WII	14 20 24.952	−12 56 47.22	0	...	2½
22	R.	WII	24.952	46.48	0	7.5	2½
29	R.	EII	24.911	47.26	0	7.5	2½
31	Fn.	EII	24.925	47.77	0	7.0	3½
1914							
Feb. 26	Hd.	EI	24.957	48.20	0	6.5	3
27	Fn.	EI	24.937	46.70	0	7.0	3
Mar. 13	Fn.	WI	24.972	47.24	0	7.0	2½
Apr. 3	Fn.	WI	24.970	46.68	0	7.0	3
Mean	1913.71		14 20 24.947	−12 56 47.19			
Corr			−0.081	−0.12			

B. D.+39° 2764

			h m s	° ′ ″			
1916							
June 2	Hd.	EI	14 21 -----	+38 47 57.33	0	...	2
12	Wy.	EI	-----	57.21	0	6.0	2
17	Wy.	WI	-----	57.90	0	6.5	2
23	Hd.	WI	-----	57.92	0	6.0	2
Mean	1916.45		14 21 -----	+38 47 57.59			
Corr			-----	−0.27			

θ Boötis

			h m s	° ′ ″			
			14 22 7.869	+52 15 56.68			
1912			s	″			
Apr. 27	R.	EII	−0.010	+0.91	I	4.4	1
May 1	R.	EII	−0.072	−0.05	I	4.4	1
4	R.	WII	−0.024	+0.28	0	...	5
9	Fn.	WII	−0.003	+0.95	I	3.7	2
1915							
Apr. 17	An.	WI	−0.036	−0.01	I	4.9	2
19	Fn.	WI	−0.046	+0.45	0	5.0	3
26	Fn.	EI	−0.064	+0.01	0	5.0	3
May 5	Hd.	EI	+0.009	+0.42	I	4.4	2
1916							
June 13	Fn.	EI	−0.061	+0.86	0	4.5	2½
26	Hd.	WI	−0.020	+1.07	I	3.4	2
29	*Hd.*	*WI*	*−0.050*	*+0.75*	*+0.75*	*0*	... *2*
July 3	*Wy.*	*WI*	*−0.025*	*+0.37*	*+0.37*	*0*	... *3½*
6	*Wy.*	*EI*	*−0.058*	*+0.23*	*+0.23*	*0*	... *2½*
7	*Fn.*	*EI*	*−0.066*	*+0.19*	*+0.18*	*0*	... *1½*
11	*Fn.*	*EI*	*−0.054*	*+0.46*	*+0.45*	*0*	... *2*
13	*Hd.*	*EI*	*−0.104*	*−0.62*	*−0.63*	*0*	... *2½*
27	*Fn.*	*WI*	*+0.004*	----	----	*0*	... *2½*
Aug. 24	*Wy.*	*WI*	*+0.026*	*+0.04*	*0.00*	*0*	... *3½*
Sept. 11	*Hd.*	*WI*	*−0.054*	*+0.91*	*+0.85*	*0*	... *2½*
19	*Hd.*	*EI*	*−0.113*	*+0.11*	*+0.07*	*0*	... *3*
20	*Wy.*	*EI*	*−0.064*	*+0.48*	*+0.47*	*0*	... *3½*
Nov. 19	*Fn.*	*WI*	*+0.051*	*+0.14*	*+0.14*	*0*	... *3½*
Dec. 7	*Hd.*	*EI*	*−0.068*	*+0.02*	*0.00*	*0*	... *3*
25	*Fn.*	*WI*	*+0.010*	*+0.66*	*+0.66*	*0*	... *2½*
28	*Hd.*	*WI*	*−0.030*	*+0.35*	*+0.37*	*0*	... *3*
1917							
Jan. 2	*Fn.*	*EI*	*−0.007*	*+0.09*	*+0.05*	*0*	... *3*
May 11	Wy.	WI	+0.077		+0.69	I	3.4 3
14	Wy.	WI	−0.019		+1.27	I	3.9 2½
June 4	Wy.	WI	−0.030		+0.81	I	3.4 2½
19	Fn.	WII	−0.047		+0.45	0	4.5 2½
21	Wy.	WII	−0.002		+0.83	0	5.0 2½
22	Fn.	WII	−0.037		+0.23	I	4.4 2½
25	Wy.	WII	−0.022		−0.16	I	3.9 2

			s	″	″			
1917								
July 6	*Fn.*	*EII*	*−0.081*	*+1.23*	*+1.22*	*0*	...	*2*
30	*Wy.*	*EII*	*+0.027*	*+1.45*	*+1.44*	*0*	...	*3*
Sept. 11	*Fn.*	*EII*	*−0.070*	*+0.73*	*+0.68*	*0*	...	*3½*
17	*Hd.*	*EII*	*−0.052*	*+0.25*	*+0.21*	*0*	...	*3*
Nov. 25	*Hd.*	*WII*	-----	*+0.50*	*+0.46*	*0*	...	*3½*
1918								
Jan. 9	*Fn.*	*EII*	*−0.029*	*+0.42*	*+0.43*	*0*	...	*3*
June 19	Wy.	WII	+0.012		+0.11	I	2.9	2
24	Wy	WII	−0.006		−0.61	I	4.4	2½
27	Wy.	WII	−0.040		+0.05	I	2.9	2
28	Hd.	WII	−0.034		+0.55	0	...	2
July 1	*Wy.*	*WII*	*−0.049*	*+0.28*	*+0.27*	*I*	...	*2½*
2	*Hd.*	*WII*	*+0.013*	*+0.88*	*+0.89*	*I*	...	*2*
9	*Hd.*	*EII*	*−0.018*	*+0.69*	*+0.68*	*I*	...	*2*
Aug. 15	*Fn.*	*WII*	*−0.128*	*+0.78*	*+0.75*	*0*	...	*3*
Mean	1916.17		−0.023		+0.43			
Corr			−0.081		−0.29			

f Boötis

			h m s	° ′ ″			
			14 22 16.152	+19 37 52.15			
1913							
Apr. 1	R.	EII	+0.030	−0.13	0	...	2½
2	Fn.	EII	+0.016	−0.06	0	6.0	3
6	R.	WII	+0.029	−0.38	0	6.0	2
7	Fn.	WII	−0.026	+0.45	0	5.6	2
1914							
Apr. 23	Wy.	EI	0.000	−0.42	0	6.5	2
May 2	Fn.	WI	+0.027	+0.16	0	6.0	2½
11	Hd.	WI	-----	+0.38	0	...	...
15	Wy	WI	+0.013	+0.05	0	...	2½
22	Wy.	EI	+0.041	+0.17	0	6.0	3
23	Hd.	EI	+0.066	−0.07	0	...	2
25	Fn.	EI	+0.007	−0.40	0	6.0	2½
Mean	1913.92		+0.020	−0.02			
	1913.96						
Corr			−0.081	−0.23			

52 Hydræ

			h m s	° ′ ″			
1911							
May 20	T.	WII	14 22 54.003	−29 5 14.64	0	...	...
22	Fn.	WII	54.094	15.58	0	...	...
24	T.	EII	53.974	16.16	0	...	...
25	Fn.	EII	54.001	15.05	0	...	...
1915							
May 8	Hd.	EI	53.953	14.86	0	6.5	3
9	Wy.	EI	53.935	15.06	0	6.0	3
31	Wy.	WI	53.941	14.89	0	...	3
June 17	Fn.	WI	53.954	15.56	0	6.0	3
Mean	1913.39		14 22 53.982	−29 5 15.22			
Corr			−0.081	+0.01			

φ Virginis [1]

			h m s	° ′ ″			
			14 23 33.810	−1 49 29.51			
1911							
June 2	Hd.	WII	+0.046	−0.57	0	...	...
7	T.	WII	+0.007	−0.36	0	...	...
8	Fn.	WII	+0.030	+0.55	0	5.7	2
9	Hd.	WII	−0.017	+0.08	0	5.5	...
15	Fn.	EII	−0.015	+0.37	0	5.4	2
20	Hd.	EII	−0.015	−0.35	0	5.0	...
1915							
Apr. 7	An.	EI	+0.022	+0.10	I	4.9	3
8	Hd.	EI	+0.064	−0.03	I	4.9	2½
13	Fn.	WI	+0.077	+0.30	0	5.5	3½
14	An.	WI	+0.023	+0.24	0	...	2½
Mean	1912.97		+0.022	+0.03			
Corr			−0.081	−0.17			

[1] Double: n. pr. component observed.

Lacaille 5953

			h	m	s	°	′	″			
1911											
May 26	Hd.	EII	14	23	53.573	−28	42	42.24	0	7.5	--
27	T.	EII			53.512			42.81	0	7.8	--
June 1	Fn.	WII			53.509			41.52	0	---	--
29	Fn.	WII			53.576			43.43	0	---	--
1915											
May 10	Hd.	EI			53.567			41.81	0	8.0	3
19	Fn.	EI			53.528			42.48	0	7.0	3
June 4	An.	WI			53.535			42.28	0	8.5	3
12	An.	WI			53.517			43.25	0	8.5	3½
Mean	1913.42		14	23	53.540	−28	42	42.48			
Corr					−0.081			+0.01			

Weisse$_2$ XIV 478

			h	m	s	°	′	″			
1913											
Apr. 20	R.	WII	14	24	32.833	+36	35	57.44	0	6.0	2
25	Fn.	EII			32.855			58.11	0	6.5	1½
30	R.	EII			32.845			57.36	0	6.0	2½
May 15	Hd.	WII			32.867			57.66	0	6.5	2
1914											
May 18	Fn.	WI			32.936			57.23	0	6.0	2
19	Wy.	WI			32.904			57.72	0	7.0	2½
26	Wy.	EI			32.869			56.94	0	6.5	3
29	Hd.	EI			32.843			57.66	0	6.5	2
Mean	1913.86		14	24	32.869	+36	35	57.52			
Corr					−0.081			−0.26			

Weisse$_1$ XIV 472 *seq.*

			h	m	s	°	′	″			
1913											
Apr. 16	Hd.	WII	14	24	35.547	+28	41	33.48	0	6.8	2½
19	R.	WII			35.549			34.29	0	7.0	2
21	Hd.	EII			35.575			33.55	0	7.0	2½
24	Hd.	EII			35.596			33.10	0	7.0	1
1914											
Apr. 10	Wy.	WI			35.582			33.80	0	7.0	3
13	Fn.	EI			35.609			33.32	0	6.5	2
21	Hd.	EI			35.552			33.88	0	---	2
May 16	Fn.	WI			35.560			34.86	0	7.0	2
Mean	1913.80		14	24	35.571	+28	41	33.78			
Corr					−0.081			−0.25			

204 B. Boötis

			h	m	s	°	′	″			
1915											
Apr. 23	Wy.	WI	14	26	4.068	+42	12	-----	0	6.5	2½
May 25	Fn.	WI			4.090			-----	0	---	2½
27	Wy.	WI			4.079			-----	0	6.5	2
June 7	Fn.	EI			4.094			-----	0	7.0	2
8	Hd.	EI			4.129			-----	0	6.5	2
22	Wy.	EI			4.089			-----	0	6.5	3
1916											
Mar. 3	Hd.	WI			4.123			-----	0	6.5	2
June 17	Wy.	WI			4.163			-----	0	6.5	2
23	Hd.	WI			4.120			-----	0	6.0	2
26	Hd.	WI			4.113			-----	0	6.0	2
29	Hd.	WI			4.117			-----	0	---	2
July 3	*Wy.*	*WI*			*4.144*			-----	*0*	---	*4*
6	*Wy.*	*EI*			*4.115*			-----	*0*	---	*2½*
1917											
May 14	Wy.	WI			4.131			-----	0	6.5	2½
June 4	Wy.	WI			4.108			-----	0	6.5	2
1918											
May 15	Fn.	WII			4.163			-----	0	6.5	1½
June 27	Wy.	WII			4.159			-----	0	6.0	2
July 1	*Wy.*	*WII*			*4.137*			-----	*0*	---	*2½*
Mean	1916.41		14	26	4.116	+42	12	-----			
Corr					−0.081			-----			

5 Ursæ Minoris

			h	m	s	°	′	″			
			14	27	42.138	+76	5	46.25			
1913											
Apr. 2	Fn.	EII			+0.01			+0.60	0	5.0	3
3	R.	EII			−0.08			+0.47	0	---	3½
5	R.	WII			−0.03			−0.54	I	4.9	2
7	Fn.	WII			−0.06			+0.04	0	4.8	2
1914											
Feb. 26	Hd.	EI			−0.01			+0.01	0	6.0	3
27	Fn.	EI			−0.03			−0.31	0	5.0	2
Mar. 3	Fn.	WI			+0.11			+0.05	0	---	3½
13	Fn.	WI			−0.01			+0.03	0	4.5	1½
Mean	1913.72				−0.012			+0.04			
Corr					−0.081			−0.35			

5 Ursæ Minoris s. p.

			h	m	s	°	′	″			
			14	27	42.138	+76	5	46.24			
1912											
Oct. 28	Fn.	EII			−0.01			−0.80	0	5.2	3½
29	R.	EII			+0.07			−1.45	0	---	5
Nov. 2	R.	WII			−0.09			−0.95	0	6.0	4
4	R.	WII			−0.04			−0.52	0	---	5
1913											
Nov. 24	Fn.	WI			−0.12			−1.67	0	5.0	3½
Dec. 15	Fn.	WI			−0.12			−0.27	0	5.0	3
1914											
Jan. 5	R.	EI			−0.02			−0.35	0	---	3
12	R.	EI			+0.22			−0.78	0	---	3
Mean	1913.40				−0.014			−0.85			
Corr					−0.081			+0.52			

ρ Boötis

			h	m	s	°	′	″			
			14	27	57.076	+30	45	58.34			
1911					s		″	″			
May 20	T.	WII			+0.044			−0.25	0	---	--
22	Fn.	WII			−0.031			+0.13	I	3.5	--
23	Hd.	EII			−0.030			−0.35	I	2.9	--
24	T.	EII			−0.032			−0.64	0	---	--
25	Fn.	EII			−0.020			+0.20	I	3.7	--
26	Hd.	EII			−0.040			−0.49	I	2.9	--
27	T.	EII			−0.007			−0.43	I	3.9	--
29	Fn.	WII			+0.005			+1.79	I	3.7	--
June 1	Fn.	WII			+0.033			+0.57	I	4.2	--
2	Hd.	WII			+0.014			+0.84	I	2.9	--
7	T.	WII			+0.001			+0.48	0	---	--
8	Fn.	WII			−0.004			+0.59	I	4.3	--
9	Hd.	WII			−0.013			+0.38	I	3.4	--
11	R.	EII			+0.013			−0.75	I	---	--
14	T.	EII			+0.012			+0.17	0	---	--
15	Fn.	EII			−0.006			−0.30	I	2.7	--
16	Hd.	EII			−0.024			−0.37	0	---	--
20	Hd.	EII			−0.009			−0.36	I	2.9	--
Dec. 27	*Hd.*	*EII*			*0.000*	*+0.22*		*+0.23*	*0*	---	*3*
1912											
Jan. 1	*R.*	*EII*			-----	*−1.41*		*−1.42*	*0*	---	--
4	*R.*	*EII*			-----	*+1.22*		*+1.23*	*0*	---	--
9	*Fn.*	*EII*			*+0.037*	*−0.44*		*−0.40*	*0*	---	*3*
Apr. 27	R.	EII			−0.007			+0.16	I	4.4	2
May 1	R.	EII			−0.027			−0.31	I	3.9	2
2	Fn.	EII			0.000			----	I	3.5	2
4	R.	WII			+0.029			----	I	4.4	3
9	Fn.	WII			−0.014			----	I	3.3	2
19	R.	EII			−0.047			----	I	4.4	2
20	Fn.	EII			−0.035			----	0	---	--
21	Hd.	WII			−0.001			----	I	3.4	2
24	Hd.	EII			−0.019			----	I	3.4	2
26	Hd.	EII			+0.017			−0.55	I	2.9	2
June 3	Fn.	WII			+0.007			----	I	---	1½
7	Hd.	EII			−0.020			----	I	---	--
Nov. 28	*Fn.*	*WII*			*−0.007*	*+0.33*		*+0.35*	*0*	---	*3*
29	*Hd.*	*WII*			*−0.021*	*−0.17*		*−0.17*	*0*	---	*2*

				s	"	"			
1912									
Dec.	*9*	*R.*	*WII*	-----	*+0.27*	*+0.28*	*0*	---	*3*
	11	*R.*	*EII*	*−0.010*	*+0.37*	*+0.39*	*0*	---	*2*
	13	*R.*	*EII*	*+0.029*	*−0.17*	*−0.15*	*0*	---	*2½*
	20	*R.*	*EII*	*−0.053*	*−0.63*	*−0.62*	*0*	---	*2*
	22	*Fn.*	*WII*	*−0.094*	*+0.09*	*+0.08*	*0*	---	*2*
	25	*R.*	*WII*	-----	*−0.89*	*−0.85*	*0*	---	*2*
1913									
Jan.	*1*	*R.*	*WII*	-----	*+0.20*	*+0.20*	*I*	---	*2*
	8	*R.*	*WII*	*+0.006*	----	----	*I*	---	*1*
Feb.	8	R.	WII	−0.028		+0.58	I	3.9	3½
	25	R.	EII	−0.026		−0.50	I	3.9	3
Mar.	11	R.	EII	+0.040		−0.24	I	---	2
	18	R.	WII	−0.014		----	I	2.9	1½
	31	Fn.	EII	+0.008		−0.04	I	3.3	2½
Apr.	1	R.	EII	−0.015		−0.51	I	---	2½
	8	R.	WII	−0.043		----	I	2.9	2½
	17	R.	WII	−0.013		+0.45	I	3.9	2
	25	Fn.	EII	+0.030		----	I	3.4	1½
	29	Fn.	EII	−0.012		−0.27	I	3.4	3
	30	R.	EII	−0.034		----	I	3.9	2½
May	1	Hd.	EII	+0.009		−0.31	I	2.9	2
	2	Fn.	EII	+0.013		----	I	3.4	2
	8	Hd.	EII	+0.018		−0.46	I	3.1	2
	10	R.	EII	+0.008		----	I	3.9	2
	29	Hd.	WII	+0.006		+0.08	I	---	2
June	2	Hd.	WII	+0.001		+0.75	I	2.9	2
	4	R.	WII	−0.002		−0.07	I	3.4	2
	5	Hd.	WII	+0.002		----	I	2.9	2
	6	Fn.	WII	+0.018		+0.28	I	3.9	2
	19	Hd.	EII	+0.018		−0.52	I	---	2
	20	Fn.	EII	0.000		−1.65	0	---	3½
Nov.	*17*	*R.*	*WI*	-----	*−1.52*	*−1.46*	*0*	---	--
	21	*Hd.*	*WI*	*+0.014*	*−0.19*	*−0.16*	*0*	---	*3*
	24	*R.*	*EI*	*+0.023*	*−0.01*	*+0.01*	*0*	---	--
Dec.	*4*	*Fn.*	*EI*	*+0.031*	*−0.49*	*−0.49*	*0*	---	*3*
	8	*R.*	*EI*	*−0.031*	*−0.37*	*−0.36*	*0*	---	--
	11	*R.*	*EI*	*−0.015*	*−0.38*	*−0.36*	*0*	---	--
	12	*Hd.*	*EI*	*−0.046*	*+0.14*	*+0.13*	*0*	---	*3*
	14	*Fn.*	*WI*	*−0.065*	*[−2.46]*	*[−2.45]*	*0*	---	*2*
	16	*Hd.*	*WI*	*+0.041*	*−0.09*	*−0.07*	*0*	---	*2*
	17	*Fn.*	*WI*	*+0.014*	*−0.18*	*−0.18*	*0*	---	*2*
	18	*R.*	*WI*	*−0.040*	*−0.47*	*−0.44*	*0*	---	--
	19	*Hd.*	*WI*	*−0.062*	*+0.25*	*+0.27*	*0*	---	*2*
	23	*Hd.*	*WI*	-----	*+0.41*	*+0.41*	*0*	---	*2*
	26	*Wy.*	*WI*	-----	*−0.66*	*−0.65*	*0*	---	*3*
1914									
Jan.	31	Fn.	WI	+0.029		+0.96	I	3.9	2
Mar.	4	Wy.	WI	+0.010		+0.32	0	---	3
	14	Wy.	WI	−0.029		−0.14	0	---	3
	20	Fn.	EI	−0.048		−0.32	I	3.9	2
	26	Hd.	EI	−0.024		----	I	3.4	2
Apr.	3	Fn.	WI	+0.002		----	0	---	--
	17	Wy.	EI	+0.035		----	I	3.4	2
May	20	Hd.	WI	+0.005		----	I	3.4	2½
	21	Fn.	WI	+0.005		−0.15	I	3.9	2½
	22	Wy.	EI	+0.001		----	I	3.4	2½
	23	Hd.	EI	+0.004		----	0	---	2
	25	Fn.	EI	−0.011		+0.07	0	---	2½
June	2	Fn.	EI	−0.010		+0.34	I	3.4	2
	5	Fn.	EI	−0.051		+0.12	I	3.4	2
	6	Wy.	EI	−0.035		+0.78	I	2.9	2
	8	Fn.	EI	−0.038		+0.38	I	2.9	2
	9	Wy.	EI	+0.048		+0.52	I	---	3
	10	Hd.	EI	+0.011		−0.14	0	---	2
	13	Wy.	EI	+0.014		+0.67	I	3.4	2
	16	Hd.	EI	−0.021		+0.03	I	2.9	2
	20	Wy.	WI	+0.019		+0.31	I	3.4	2½
	23	Hd.	WI	−0.013		−0.51	I	---	2½
	24	Wy.	WI	−0.024		−0.20	I	3.4	2½
Sept.	*29*	*Wy.*	*WI*	*−0.024*	----	----	*0*	---	*3½*
Oct.	*10*	*An.*	*WI*	*−0.012*	----	----	*0*	---	*3*
	21	*An.*	*EI*	*+0.041*	----	----	*0*	---	*3½*
Nov.	*23*	*Hd.*	*EI*	*+0.051*	*+0.07*	*+0.11*	*0*	---	*3*
	25	*Wy.*	*EI*	*−0.014*	*+0.36*	*+0.36*	*0*	---	*3½*
	27	*Wy.*	*EI*	*+0.005*	*−0.09*	*−0.06*	*0*	---	*3½*
Dec.	*13*	*Fn.*	*WI*	*+0.081*	*−1.55*	*−1.55*	*0*	---	*3½*
	15	*An.*	*WI*	*−0.076*	*+0.15*	*+0.16*	*0*	---	*2½*

				s	"	"			
1914									
Dec.	*16*	*Fn.*	*WI*	*−0.039*	*+1.34*	*+1.36*	*0*	---	*2½*
	17	*Hd.*	*WI*	*−0.048*	*+0.24*	*+0.26*	*0*	---	*2*
	22	*Hd.*	*WI*	*−0.013*	*+0.25*	*+0.24*	*0*	---	*3½*
1915									
Jan.	*4*	*Wy.*	*EI*	*+0.017*	*−0.05*	*−0.06*	*0*	---	*2½*
	7	*Wy.*	*EI*	*+0.027*	*−0.57*	*−0.59*	*0*	---	*3*
	12	*An.*	*WI*	*−0.028*	----	----	*I*	---	*3½*
Apr.	6	Wy.	EI	−0.008	----		I	---	3
	23	Wy.	WI	−0.024		----	I	---	2½
	26	Fn.	EI	−0.047		−0.69	I	3.9	2½
May	4	Wy.	EI	−0.014		−0.20	I	3.4	3
	5	Hd.	EI	−0.002		----	I	3.9	2
	8	Hd.	EI	−0.001		----	I	3.4	2
	9	Wy.	EI	−0.009		−0.26	I	3.4	2
	14	Fn.	WI	−0.002		----	0	---	2½
	19	Fn.	EI	−0.030		−0.09	I	3.9	2
	25	Fn.	WI	+0.009		----	0	---	2
	27	Wy.	WI	−0.026		+0.35	I	3.9	2
	31	Wy.	WI	+0.015		----	I	---	2
June	4	An.	WI	+0.005		----	II	3.6	2
	7	Fn.	EI	+0.011		----	0	---	2
	8	Hd.	EI	−0.003		----	I	3.9	2
	9	An.	EI	+0.030		+0.19	I	3.4	2
	10	Fn.	EI	−0.001		+0.03	I	3.9	2
	12	An.	WI	+0.013		----	I	---	2
	17	Fn.	WI	+0.015		+0.32	I	3.9	2
	18	Hd.	WI	+0.008		−0.18	I	3.4	2
	19	Wy.	WI	−0.012		−0.05	I	3.4	2½
	22	Wy.	EI	0.000		----	I	3.4	3
	25	Wy.	EI	+0.017		----	I	3.4	2
Nov.	*17*	*Hd.*	*WI*	-----	*−0.06*	*−0.02*	*0*	---	*3*
	23	*Hd.*	*EI*	*+0.011*	*−0.12*	*−0.11*	*0*	---	*2*
	29	*Fn.*	*EI*	*+0.008*	*+0.37*	*+0.39*	*0*	---	*3*
	30	*Wy.*	*EI*	-----	*−0.35*	*−0.33*	*0*	---	*3½*
Dec.	*2*	*Fn.*	*EI*	*+0.018*	*+0.20*	*+0.21*	*0*	---	*3*
	3	*Hd.*	*EI*	*−0.005*	*−0.06*	*−0.06*	*0*	---	*2½*
	6	*Wy.*	*WI*	*−0.036*	*−0.25*	*−0.25*	*0*	---	*3*
	9	*Wy.*	*WI*	*−0.043*	*−0.79*	*−0.78*	*0*	---	*3*
	14	*Fn.*	*WI*	*+0.018*	*+0.10*	*+0.11*	*0*	---	*3*
	19	*Hd.*	*WI*	-----	*+0.67*	*+0.68*	*0*	---	*3*
	20	*Fn.*	*WI*	*−0.013*	*−0.14*	*−0.13*	*0*	---	*3½*
	22	*Wy.*	*WI*	*−0.003*	*+0.08*	*+0.10*	*0*	---	*2½*
Mean			1913.59	−0.004		+0.01			
			1913.35						
Corr				−0.081		−0.25			

Bradley 1870

				h	m	s	°	′	″			
1913												
Mar.	20	R.	WII	14	28	27.062	+22	39	21.31	0	6.0	3
	22	R.	WII			27.033			22.02	0	6.5	2
	28	Fn.	EII			27.090			21.06	0	5.8	1½
	29	R.	EII			27.050			20.61	0	6.0	2½
1914												
Apr.	23	Wy.	EI			27.065			21.10	0	7.0	2
	27	Wy.	EI			27.066			21.16	0	6.0	2
May	2	Fn.	WI			27.092			21.65	0	6.0	2
	15	Wy.	WI			27.046			22.08	0	6.5	2½
Mean			1913.78	14	28	27.063	+22	39	21.37			
Corr						−0.081			−0.24			

γ Boötis

				h	m	s	°	′	″			
				14	28	27.223	+38	42	6.63			
						s			″			
1912												
May	3	Hd.	EII			−0.022			+0.10	I	2.9	2
	10	Hd.	WII			+0.003			+0.21	I	2.9	2
	13	Fn.	WII			+0.013			−0.28	I	3.2	1½
	18	Hd.	EII			−0.072			+0.23	I	2.9	2
1915												
Apr.	8	Hd.	EI			+0.035			----	I	2.9	2
	17	An.	WI			−0.028			+0.21	II	3.6	2
	19	Fn.	WI			−0.033			+0.35	I	3.4	3
May	10	Hd.	EI			+0.005			−0.30	I	3.4	2
	17	Hd.	EI			−0.010			−0.15	I	2.9	3
1916												
Mar.	3	Hd.	WI			−0.010			----	I	2.9	2
June	2	Hd.	EI			−0.012			+0.32	0	---	2

				s	″	″			
1916									
June	13	Fn.	EI	−0.014		−0.08	I	3.4	2
	17	Wy.	WI	−0.006		+0.36	I	2.9	2
	22	Fn.	WI	−0.020		+0.37	I	2.9	2
	23	Hd.	WI	−0.009		+0.89	I	2.9	2
	26	Hd.	WI	−0.017		+0.25	I	2.9	2
	29	Hd.	WI	−0.007		−0.49	I	---	2
July	*3*	*Wy.*	*WI*	*+0.022*	*+0.57*	*+0.57*	*I*	---	*4*
	6	*Wy.*	*EI*	*−0.053*	*−0.29*	*−0.29*	*I*	---	*2*
	7	*Fn.*	*EI*	*−0.020*	*−0.23*	*−0.23*	*0*	---	*2*
	11	*Fn.*	*EI*	*−0.030*	*−0.26*	*−0.26*	*0*	---	*2*
	13	*Hd.*	*EI*	*−0.049*	*+0.02*	*+0.02*	*0*	---	*2*
	14	*Fn.*	*EI*	*−0.039*	*−0.10*	*−0.10*	*0*	---	2½
Aug.	*7*	*Wy.*	*EI*	*−0.072*	*−0.13*	*−0.13*	*0*	---	3½
	25	*Fn.*	*WI*	*−0.052*	*+0.29*	*+0.29*	*0*	---	3½
Sept.	*5*	*Wy.*	*WI*	*−0.056*	*+0.21*	*+0.21*	*0*	---	3½
	11	*Hd.*	*WI*	*−0.047*	*+0.39*	*+0.39*	*0*	---	*3*
	19	*Hd.*	*EI*	*−0.087*	*−0.28*	*−0.28*	*0*	---	*3*
	20	*Wy.*	*EI*	*−0.100*	*−0.50*	*−0.50*	*0*	---	3½
	22	*Hd.*	*EI*	*−0.029*	*+0.05*	*+0.05*	*0*	---	*3*
	26	*Hd.*	*EI*	*−0.031*	*−0.46*	*−0.46*	*0*	---	3½
Nov.	*9*	*Fn.*	*EI*	*+0.024*	----	----	*0*	---	3½
	26	*Wy.*	*WI*	*−0.015*	*+0.28*	*+0.28*	*0*	---	3½
Dec.	*6*	*Fn.*	*EI*	*+0.027*	*+0.02*	*+0.02*	*0*	---	*3*
	7	*Hd.*	*EI*	*−0.051*	*+0.06*	*+0.06*	*0*	---	*3*
	25	*Fn.*	*WI*	*+0.004*	*−0.06*	*−0.06*	*0*	---	2½
	28	*Hd.*	*WI*	*−0.010*	*−0.53*	*−0.53*	*0*	---	*3*
1917									
Jan.	*1*	*Wy.*	*WI*	*−0.016*	*+0.72*	*+0.72*	*0*	---	3½
	8	*Fn.*	*EI*	*−0.027*	*+0.21*	*+0.21*	*0*	---	*3*
May	11	Wy.	WI	−0.023		+0.17	I	3.9	3
June	19	Fn.	WII	−0.007		+0.71	I	3.9	2½
	21	Wy.	WII	−0.016		+0.25	I	4.4	3
	22	Fn.	WII	−0.015		+0.41	I	2.9	2½
	25	Wy.	WII	+0.032		−0.24	I	3.4	2
July	*6*	*Fn.*	*EII*	*−0.076*	----	----	*0*	---	*2*
	30	*Wy.*	*EII*	*+0.002*	*−0.38*	*−0.38*	*0*	---	*3*
Aug.	*21*	*Wy.*	*WII*	*−0.078*	*−0.81*	*−0.81*	*0*	---	3½
Sept.	*4*	*Fn.*	*EII*	*−0.062*	*−0.25*	*−0.25*	*0*	---	3½
	11	*Fn.*	*EII*	*−0.115*	*+0.23*	*+0.23*	*0*	---	3½
	13	*Hd.*	*EII*	*+0.039*	----	----	*0*	---	3½
	17	*Hd.*	*EII*	*−0.075*	*−0.33*	*−0.33*	*0*	---	*3*
	20	*Hd.*	*WII*	*−0.046*	*+0.19*	*+0.19*	*0*	---	3½
Oct.	*2*	*Fn.*	*WII*	*−0.045*	----	----	*0*	---	3½
Nov.	*19*	*Fn.*	*WII*	*−0.044*	*−0.27*	*−0.27*	*0*	---	3½
	25	*Hd.*	*WII*	-----	*−1.29*	*−1.29*	*0*	---	3½
	26	*Wy.*	*WII*	-----	*−1.56*	*−1.55*	*0*	---	*3*
1918									
Jan.	*9*	*Fn.*	*EII*	*+0.040*	*−0.62*	*−0.62*	*0*	---	*3*
May	15	Fn.	WII	+0.012		----	I	2.9	1½
June	19	Wy.	WII	0.000		−0.05	I	3.4	2
	24	Wy.	WII	+0.023		−0.58	I	3.4	2½
	27	Wy.	WII	+0.016		+0.09	I	2.9	2
	28	Hd.	WII	−0.024		+0.29	0	---	2
July	*1*	*Wy.*	*WII*	*+0.003*	*−0.44*	*−0.44*	*I*	---	2½
	2	*Hd.*	*WII*	*−0.010*	*+0.68*	*+0.68*	*I*	---	*2*
	9	*Hd.*	*EII*	*−0.035*	*−0.43*	*−0.43*	*I*	---	*2*
	15	*Wy.*	*EII*	*+0.020*	*+0.08*	*+0.08*	*0*	---	2½
	16	*Hd.*	*EII*	*−0.013*	*−0.35*	*−0.35*	*0*	---	2½
Aug.	*15*	*Fn.*	*WII*	*−0.063*	*+0.07*	*+0.07*	*0*	---	*3*
Mean		1916.19		−0.008		+0.13			
		1916.13							
Corr				−0.081		−0.27			

56 B. Draconis

				h	m	s	°	′	″			
1912												
May	27	Fn.	EII	14	29	16.07	+60	37	19.70	0	6.4	2
	31	Hd.	WII			16.16			19.35	0	6.0	2
June	1	R.	WII			16.16			19.24	0	6.5	1
	5	R.	EII			16.12			18.20	0	---	2
	8	R.	EII			16.13			18.70	0	6.0	1
1915												
June	4	An.	WI			16.19			19.60	0	5.5	2
	7	Fn.	EI			16.20			19.35	0	---	2½
	8	Hd.	EI			16.16			20.04	0	6.5	2
	12	An.	WI			16.13			19.58	0	6.0	2
Mean		1913.76		14	29	16.147	+60	37	19.31			
Corr						−0.081			−0.32			

η Centauri

				h	m	s	°	′	″			
				14	29	-----	−41	45	46.47			
1912												
Jan.	19	Hd.	WII			-----			+0.4	I	---	4
	24	Hd.	EII			-----			−1.4	D	---	5
Feb.	2	Fn.	WII			-----			+2.6	I	---	4½
	6	Fn.	EII			-----			−0.1	O	---	4½
	7	Hd.	EII			-----			−2.0	O	---	5
	9	Fn.	EII			-----			+0.5	O	---	5
June	3	Fn.	WII			-----			−3.0	D	---	3
1913												
Jan.	12	Fn.	WII			-----			−1.4	D	---	3½
	19	Fn.	EII			-----			−0.2	O	---	3½
	25	R.	EII			-----			−2.0	O	---	--
	27	Hd.	EII			-----			−1.5	D	---	5
	31	R.	WII			-----			−0.9	D	---	--
Feb.	9	Fn.	WII			-----			−3.5	O	---	4
	14	R.	WII			-----			+0.5	D	---	--
Apr.	20	R.	WII			-----			+0.3	O	---	--
June	5	Hd.	WII			-----			−1.7	I	---	3
	10	R.	WII			-----			−0.6	O	---	--
	17	Fn.	EII			-----			−1.8	O	---	4
	18	R.	EII			-----			−1.5	I	---	2
1915												
Jan.	15	Hd.	WI			-----			−0.2	O	---	4
Mean		1912.93				-----			−0.88			
Corr						-----			+0.44			

σ Boötis

				h	m	s	°	′	″			
				14	30	45.819	+30	8	9.18			
1913												
Apr.	17	R.	WII			+0.003			−0.06	I	4.4	2
	19	R.	WII			−0.037			−0.32	I	4.9	2½
	22	Fn.	EII			−0.026			−0.15	O	5.0	2½
	24	Hd.	EII			+0.015			−0.28	I	4.4	1
1914												
Apr.	9	Fn.	WI			+0.017			−0.09	I	4.4	1½
	10	Wy.	WI			−0.024			+0.31	I	4.4	2½
	17	Wy.	EI			+0.035			−0.02	I	3.9	2½
	21	Hd.	EI			−0.035			+0.31	I	3.9	2
1915												
Apr.	23	Wy.	WI			−0.034			----	I	---	2½
May	3	Fn.	EI			+0.005			----	D	5.0	3
	14	Fn.	WI			−0.046			----	O	---	2½
	25	Fn.	WI			−0.038			----	O	---	2
June	10	Fn.	EI			−0.028			----	O	5.0	2
	22	Wy.	EI			−0.051			----	I	4.4	3
	25	Wy.	EI			−0.012			----	I	4.4	2½
1916												
Mar.	3	Hd.	WI			−0.034			----	I	4.4	2
1917												
May	14	Wy.	WI			+0.007			----	I	4.4	2½
1918												
May	15	Fn.	WII			−0.007			----	D	5.0	1½
Mean		1915.00				−0.016			−0.04			
		1913.79										
Corr						−0.081			−0.25			

Åbo 1830, 333

				h	m	s	°	′	″			
1912												
May	20	Fn.	EII	14	31	30.789	+49	45	37.44	O	5.5	2½
	24	Hd.	EII			30.829			37.54	O	5.5	--
	30	Fn.	WII			30.867			38.31	O	6.0	2
	31	Hd.	WII			30.862			37.76	D	5.5	--
1915												
Apr.	6	Wy.	EI			30.881			38.12	O	---	2½
	7	An.	EI			30.914			37.52	I	5.4	2
	8	Hd.	EI			30.873			38.29	O	6.0	2½
	13	Fn.	WI			30.829			39.45	O	5.5	3
	14	An.	WI			30.794			37.59	O	6.0	2
Mean		1914.00		14	31	30.849	+49	45	38.00			
Corr						−0.081			−0.29			

Groombridge 2132

				h m s	° ′ ″			
1913								
Apr. 30	R.	EII		14 31 41.94	+65 47 18.05	0	7.0	2
May 1	Hd.	EII		41.92	18.06	0	6.5	2
15	Hd.	WII		41.89	18.59	0	6.5	2
24	R.	WII		41.89	18.28	0	6.5	2½
1914								
Apr. 30	Wy.	WI		41.95	17.94	0	6.5	2½
May 2	Fn.	WI		42.02	18.03	0	---	--
22	Wy.	EI		41.92	18.83	0	7.0	3
26	Wy.	EI		42.02	18.67	0	7.5	3
Mean		1913.86		14 31 41.944	+65 47 18.31			
Corr				−0.081	−0.33			

Lalande 26645

				h m s	° ′ ″			
1912								
May 18	Hd.	EII		14 32 2.813	+23 38 29.95	0	6.5	2
19	R.	EII		2.778	30.58	0	7.0	3½
21	Hd.	WII		2.822	29.80	0	6.5	2
28	Hd.	WII		2.835	29.35	0	6.5	2
1915								
May 19	Fn.	EI		2.803	30.53	0	6.5	2
25	Fn.	WI		2.807	30.62	0	---	2
27	Wy.	WI		2.797	30.89	0	---	3
June 8	Hd.	EI		2.847	30.21	0	7.0	2
Mean		1913.90		14 32 2.813	+23 38 30.24			
Corr				−0.081	−0.24			

6 B. Libræ

				h m s	° ′ ″			
1913								
Apr. 8	R.	WII		14 32 12.243	−11 55 22.90	0	6.0	3
16	Hd.	WII		12.236	22.03	0	6.5	3½
21	Hd.	EII		12.251	22.54	0	6.5	3
25	Fn.	EII		12.164	21.76	0	6.3	2
1914								
May 18	Fn.	WI		12.122	22.07	0	6.5	3
19	Wy.	WI		12.101	22.20	0	7.0	2½
20	Hd.	WI		12.155	22.36	0	7.0	3
29	Hd.	EI		12.136	21.79	0	7.5	2½
June 2	Fn.	EI		12.140	21.56	0	6.5	2½
Mean		1913.91		14 32 12.172	−11 55 22.13			
Corr				−0.081	−0.13			

Carrington 2188

				h m s	° ′ ″			
1912								
May 2	Fn.	EII		14 32 33.84	+81 12 34.33	0	7.3	3½
3	Hd.	EII		33.84	33.73	0	7.0	3
4	R.	WII		33.88	33.46	0	---	5
9	Fn.	WII		33.82	34.20	0	6.7	3
1915								
Apr. 24	An.	WI		33.93	33.05	0	---	2
26	Fn.	EI		33.84	33.09	0	7.0	2½
May 5	Hd.	EI		33.85	33.90	0	7.5	2½
8	Hd.	EI		33.72	33.74	0	6.5	2
31	Wy.	WI		33.57	33.40	0	---	3
Mean		1914.01		14 32 33.810	+81 12 33.66			
Corr				−0.081	−0.37			

Carrington 2188 s. p.

				h m s	° ′ ″			
1911								
Oct. 24	Fn.	WII		14 32 33.76	+81 12 33.15	0	6.6	2½
25	Hd.	WII		33.76	32.61	0	6.5	3
Nov. 7	R.	EII		33.39	33.46	0	7.0	1½
10	Hd.	EII		33.81	33.59	0	6.5	4
1915								
Sept. 22	Wy.	EI		34.06	32.13	0	7.0	3
24	Hd.	EI		33.99	31.53	0	6.5	3
Oct. 9	Hd.	WI		33.75	32.56	0	6.5	3½
11	Hd.	WI		33.84	32.39	0	7.0	3
Mean		1913.79		14 32 33.795	+81 12 32.68			
Corr				−0.081	+0.47			

Weisse$_1$ XIV 551

				h m s	° ′ ″			
1911								
May 20	T.	WII		14 32 ------	+2 40 9.31	0	---	--
22	Fn.	WII		55.351	9.51	0	6.4	--
23	Hd.	EII		55.364	10.38	0	7.0	--
24	T.	EII		55.404	10.26	0	---	--
25	Fn.	EII		55.348	9.84	0	---	--
1915								
June 4	An.	WI		55.357	9.31	0	7.0	2½
9	An.	EI		55.331	9.46	0	7.0	3
10	Fn.	EI		55.343	10.11	0	6.5	2½
12	An.	WI		55.342	9.32	0	7.5	3
Mean		1913.42 1913.19		14 32 55.355	+2 40 9.72			
Corr				−0.081	−0.19			

Piazzi XIV 156

				h m s	° ′ ″			
1911								
June 2	Hd.	WII		14 35 23.871	+54 24 43.79	0	6.0	--
8	Fn.	WII		23.849	44.00	0	6.3	--
9	Hd.	WII		23.954	44.47	0	6.5	--
15	Fn.	EII		23.863	44.13	0	6.1	--
20	Hd.	EII		23.895	43.21	0	---	--
1915								
Apr. 17	An.	WI		23.978	42.94	0	7.0	2
19	Fn.	WI		23.958	44.06	0	6.5	3
May 9	Wy.	EI		23.957	43.08	0	5.5	2
10	Hd.	EI		23.974	43.18	0	6.2	3
17	Hd.	EI		23.931	42.94	0	6.0	3½
Mean		1913.39		14 35 23.923	+54 24 43.58			
Corr				−0.081	−0.30			

33 Boötis

				h m s	° ′ ″			
				14 35 29.300	+44 47 32.87			
1913								
Mar. 20	R.	WII		−0.081	+1.18	0	---	2
21	Fn.	WII		−0.019	+0.49	0	5.5	3
28	Fn.	EII		−0.038	+1.31	0	5.5	1½
29	R.	EII		−0.133	+1.40	0	5.5	2
1914								
Feb. 26	Hd.	EI		−0.075	+0.79	0	6.0	2
27	Fn.	EI		−0.042	+0.45	0	5.5	1½
Mar. 3	Fn.	WI		−0.023	+1.24	0	5.5	3
4	Wy.	WI		−0.062	+1.17	0	6.0	2
1915								
Apr. 23	Wy.	WI		−0.026	----	I	---	3
May 3	Fn.	EI		−0.046	----	0	5.5	3
14	Fn.	WI		−0.062	----	0	---	2½
25	Fn.	WI		−0.041	----	0	---	2½
27	Wy.	WI		−0.045	----	0	---	2
June 10	Fn.	EI		+0.024	----	0	6.0	2½
17	Fn.	WI		−0.036	----	0	5.5	2
22	Wy.	EI		−0.032	----	0	6.0	3
1916								
Mar. 3	Hd.	WI		−0.037	----	0	6.0	2
July 17	*Hd.*	*EI*		*−0.031*	-----	*0*	---	*2*
1917								
June 22	Fn.	WII		−0.069	----	0	5.5	2½
1918								
May 15	Fn.	WII		−0.017	----	0	5.5	1½
June 27	Wy.	WII		−0.051	----	0	5.5	2
July 1	Wy.	WII		−0.037	----	0	6.0	2½
Mean		1915.32 1913.70		−0.045	+1.00			
Corr				−0.081	−0.28			

α Lupi

				h m s	° ′ ″			
1911								
May 27	T.	EII		14 35 -----	−47 0 11.3	0	---	--
June 1	Fn.	WII		-----	6.1	0	---	--

				h	m	s	°	′	″			
1912												
Jan.	19	Hd.	WII			-----			10.4	0	---	5
	24	Hd.	EII			-----			13.1	0	---	5
Feb.	2	Fn.	WII			-----			4.9	0	---	4½
	6	Fn.	EII			-----			11.7	0	---	5
	9	Fn.	EII			-----			6.8	0	---	5
	12	R.	EII			-----			3.8	0	---	--
June	8	R.	EII			-----			17.8	0	---	--
1913												
June	5	Hd.	WII			-----			14.7	0	---	4
	9	Hd.	WII			-----			11.3	0	---	5
	18	R.	EII			-----			11.6	0	---	--
1914												
June	6	Wy.	EI			-----			8.3	0	---	4
	13	Wy.	EI			-----			8.4	0	---	4
1915												
Jan.	28	Wy.	EI			-----			3.4	0	---	5
May	15	Wy.	WI			-----			6.3	0	---	5
	21	Wy.	WI			-----			14.6	0	---	4
June	12	An.	WI			-----			12.1	0	---	4
	19	Wy.	WI			-----			9.7	0	---	5
	23	An.	EI			-----			8.5	0	---	4
	24	Fn.	EI			-----			12.9	0	---	--
	25	Wy.	EI			-----			10.3	0	---	5
1916												
June	17	Wy.	WI			-----			9.3	0	---	5
	22	Fn.	WI			-----			14.0	0	---	4½
	26	Hd.	WI			-----			14.2	0	---	4
July	6	Wy.	EI			-----			14.5	0	---	5
1918												
June	24	Wy.	WII			-----			12.3	0	---	5
July	2	Hd.	WII			-----			9.1	0	---	5
Mean			1914.40	14	35	-----	−47	0	10.41			
Corr						-----			+1.30			

π Boötis [1]

				h	m	s	°	′	″			
1913												
Mar.	22	R.	WII	14	36	29.807	+16	48	13.76	0	5.5	1½
	30	R.	EII			29.781			13.23	0	5.5	2½
Apr.	1	R.	EII			29.785			13.77	0	---	2½
	6	R.	WII			29.758			13.54	0	5.5	2
1914												
Mar.	20	Fn.	EI			29.768			14.01	0	5.0	2
	24	Fn.	EI			29.781			13.10	0	5.0	2½
Apr.	6	Fn.	WI			29.853			13.14	0	5.0	2½
	30	Wy.	WI			29.805			14.13	I	4.0	2½
Mean			1913.75	14	36	29.792	+16	48	13.58			
Corr						−0.081			−0.22			

Bradley 1879

				h	m	s	°	′	″			
1912												
Apr.	27	R.	EII	14	37	24.083	+12	2	52.88	0	6.0	2½
May	1	R.	EII			24.030			52.34	0	5.5	2
	10	Hd.	WII			24.056			53.08	0	5.5	2
	13	Fn.	WII			24.085			54.25	0	5.6	1½
1915												
May	19	Fn.	EI			24.037			52.76	0	6.0	2
	25	Fn.	WI			24.000			51.87	0	---	2½
	27	Wy.	WI			24.043			51.81	0	---	2½
June	8	Hd.	EI			24.013			51.93	0	6.0	2
Mean			1913.87	14	37	24.043	+12	2	52.62			
Corr						−0.081			−0.21			

Lalande 26760

				h	m	s	°	′	″			
1913												
Apr.	16	Hd.	WII	14	37	42.030	−18	55	42.96	0	7.0	3
	17	R.	WII			42.064			43.25	0	7.5	3
	21	Hd.	EII			41.998			43.26	0	7.0	3
	22	Fn.	EII			41.980			43.30	0	8.0	3½
1914												
Mar.	26	Hd.	EI			42.000			43.25	0	7.5	3
Apr.	9	Fn.	WI			41.994			42.84	0	7.0	2½
	10	Wy.	WI			42.004			43.11	0	7.5	3
	13	Fn.	EI			42.027			43.15	0	7.5	3
Mean			1913.78	14	37	42.012	−18	55	43.14			
Corr						−0.081			−0.09			

c^1 Centauri

				h	m	s	°	′	″			
1912												
May	25	R.	EII	14	38	8.937	−34	47	12.65	0	5.5	5
	26	Hd.	EII			9.000			12.30	0	5.0	4
	31	Hd.	WII			8.956			13.62	0	---	3
June	1	R.	WII			8.969			11.83	I	4.4	2½
1915												
Apr.	7	An.	EI			8.903			-----	0	---	--
	8	Hd.	EI			8.945			12.84	I	4.4	3½
	13	Fn.	WI			8.953			13.18	0	4.5	3½
	14	An.	WI			8.984			12.91	0	---	3½
	26	Fn.	EI			8.937			12.32	0	---	3½
Mean			1914.00 1913.85	14	38	8.954	−34	47	12.71			
Corr						−0.081			+0.13			

μ Virginis

				h	m	s	°	′	″			
				14	38	18.968	−5	16	3.70			
1913												
Apr.	2	Fn.	EII			+0.006			+0.08	0	5.0	3½
	3	R.	EII			+0.018			−0.39	0	---	3½
	7	Fn.	WII			+0.054			−0.34	I	4.4	3
	8	R.	WII			+0.060			−0.24	I	4.4	3½
1914												
Apr.	17	Wy.	EI			+0.044			+0.71	I	3.9	3½
	21	Hd.	EI			+0.032			+0.32	I	3.9	2
	27	Wy.	EI			+0.017			+0.68	I	3.9	2
May	15	Wy.	WI			+0.044			−1.00	0	---	3
	16	Fn.	WI			+0.032			+0.68	I	3.9	2
Mean			1913.86			+0.034			+0.06			
Corr						−0.081			−0.16			

B. D.−7° 3897

				h	m	s	°	′	″			
1912												
May	18	Hd.	EII	14	39	27.179	−7	52	20.96	0	7.0	2
	20	Fn.	EII			27.284			21.62	0	---	3½
	21	Hd.	WII			27.232			21.30	0	6.8	--
	28	Hd.	WII			27.233			21.34	0	7.0	2
1915												
May	31	Wy.	WI			27.196			20.16	0	---	3½
June	4	An.	WI			27.199			20.62	0	7.0	2½
	9	An.	EI			27.154			20.80	0	7.5	3
	10	Fn.	EI			27.148			19.95	0	6.5	2½
Mean			1913.91	14	39	27.203	−7	52	20.84			
Corr						−0.081			−0.15			

Lalande 26855

				h	m	s	°	′	″			
1913												
Mar.	20	R.	WII	14	40	56.628	−22	46	21.24	0	6.0	2
	21	Fn.	WII			56.714			21.27	0	6.5	3½
	28	Fn.	EII			56.617			21.79	0	6.5	3
	29	R.	EII			56.659			22.64	0	6.5	2½
1914												
Apr.	23	Wy.	EI			56.691			22.54	0	---	2½
	27	Wy.	EI			56.670			21.72	0	6.0	2
	30	Wy.	WI			56.594			22.43	0	7.0	3
May	2	Fn.	WI			56.707			23.23	0	6.0	3½
Mean			1913.78	14	40	56.660	−22	46	22.11			
Corr						−0.081			−0.05			

[1] Double; n. pr. component observed.

ε Bootis [1]

h m s 14 41 3.378 ° ′ ″ +27 27 11.56

				s	″	″			
1911									
May	20	T.	WII	+0.020		−0.01	I	2.4	--
	22	Fn.	WII	+0.023		−0.03	I	3.5	--
	23	Hd.	EII	−0.044		+0.64	I	2.4	--
	24	T.	EII	+0.004		+0.05	0	---	--
	25	Fn.	EII	+0.030		+0.24	I	---	--
	26	Hd.	EII	−0.034		−0.03	I	2.4	--
	27	T.	EII	+0.007		+0.30	II	2.1	--
	29	Fn.	WII	+0.037		+0.18	I	2.9	2
June	1	Fn.	WII	+0.014		+0.95	I	3.4	--
	2	Hd.	WII	+0.035		+0.60	I	2.4	--
	8	Fn.	WII	+0.018		+0.44	I	2.5	--
	9	Hd.	WII	+0.002		+0.58	I	2.9	--
	11	R.	EII	−0.020		−1.20	I	---	--
	14	T.	EII	+0.010		+0.64	0	---	--
	15	Fn.	EII	+0.024		+0.75	I	1.8	--
	20	Hd.	EII	+0.016		+0.44	I	2.4	--
	21	T.	EII	+0.024		+0.67	I	2.4	--
	22	Fn.	EII	+0.026		0.00	I	2.4	--
	27	Hd.	WII	+0.020		+0.71	I	2.9	--
	28	T.	WII	+0.030		−0.03	II	2.1	--
Dec.	*27*	*Hd.*	*EII*	*0.000*	*+0.69*	*+0.71*	*0*	---	*3*
1912									
Jan.	*1*	*R.*	*EII*	-----	*−0.57*	*−0.58*	*0*	---	--
	4	*R.*	*EII*	-----	*+0.86*	*+0.88*	*0*	---	--
	8	*Fn.*	*EII*	*+0.034*	----	----	*0*	---	--
	9	*Fn.*	*EII*	*+0.068*	----	----	*0*	---	*3*
May	1	R.	EII	+0.013		----	II	2.6	2
	2	Fn.	EII	+0.010		+0.87	I	2.4	2½
	3	Hd.	EII	0.000		+0.59	II	2.6	2
	4	R.	WII	+0.030		----	I	---	5
	9	Fn.	WII	−0.005		----	I	2.0	2
	10	Hd.	WII	+0.031		----	II	2.6	2
	13	Fn.	WII	+0.025		+0.14	I	2.2	1½
June	3	Fn.	WII	+0.018		−0.25	I	2.3	1½
	7	Hd.	EII	−0.018		----	0	---	--
Nov.	*10*	*R.*	*EII*	*+0.039*	*+0.97*	*+1.03*	*0*	---	--
	11	*Fn.*	*EII*	*+0.054*	*+0.35*	*+0.33*	*0*	---	--
	20	*R.*	*EII*	*+0.014*	*−0.11*	*−0.03*	*0*	---	--
	22	*Hd.*	*EII*	*+0.051*	*+0.20*	*+0.22*	*0*	---	*2*
	25	*Hd.*	*WII*	*+0.011*	*−0.31*	*−0.29*	*0*	---	*3*
	26	*Fn.*	*WII*	-----	*+0.11*	*+0.12*	*0*	---	*3½*
	28	*Fn.*	*WII*	*−0.014*	*+0.15*	*+0.18*	*0*	---	*2½*
	29	*Hd.*	*WII*	*+0.024*	*+0.17*	*+0.17*	*0*	---	*2*
Dec.	*2*	*R.*	*WII*	*+0.030*	----	----	*0*	---	*2*
	11	*R.*	*EII*	*−0.031*	*+0.26*	*+0.29*	*0*	---	*3½*
	12	*Hd.*	*EII*	*−0.017*	*+0.41*	*+0.43*	*0*	---	*2*
	13	*R.*	*EII*	*+0.029*	*+0.58*	*+0.62*	*0*	---	*3*
	15	*Fn.*	*EII*	*+0.020*	*+0.16*	*+0.15*	*0*	---	*3*
	19	*Fn.*	*EII*	*+0.025*	*+0.33*	*+0.35*	*0*	---	*3½*
	20	*R.*	*EII*	*+0.007*	*+0.03*	*+0.06*	*I*	---	*2½*
	22	*Fn.*	*WII*	*0.000*	----	----	*0*	---	*2*
	25	*R.*	*WII*	-----	*+0.34*	*+0.39*	*0*	---	*2*
	27	*Hd.*	*WII*	*−0.011*	*+0.15*	*+0.16*	*0*	---	*3*
1913									
Jan.	*1*	*R.*	*WII*	-----	*+0.61*	*+0.61*	*I*	---	*2*
	8	*R.*	*WII*	*+0.019*	----	----	*II*	---	*2*
Mar.	22	R.	WII	−0.004		----	I	2.9	2
	30	R.	EII	+0.013		----	II	3.1	2
Apr.	1	R.	EII	+0.012		----	I	---	4
	29	Fn.	EII	+0.032		+0.75	I	2.5	3
	30	R.	EII	+0.037		−0.02	II	3.1	2½
May	1	Hd.	EII	+0.017		+0.27	II	2.6	2
	2	Fn.	EII	−0.027		+1.10	I	2.5	2
	3	R.	EII	+0.016		+0.27	II	2.6	2
	5	Hd.	EII	+0.028		+0.66	II	---	2
	6	Fn.	EII	−0.004		+0.20	I	---	2
	8	Hd.	EII	+0.032		+0.45	II	2.6	2
	10	R.	EII	+0.016		+0.58	II	2.6	2
	15	Hd.	WII	+0.023		+0.94	II	2.6	2
	19	Hd.	WII	+0.046		+0.17	II	2.6	2
	20	Fn.	WII	−0.047		+0.23	I	2.5	2
	29	Hd.	WII	+0.013		−0.16	I	---	2
June	2	Hd.	WII	+0.060		+0.22	II	2.6	2
1913									
June	4	R.	WII	+0.018		−0.11	II	2.6	2
	5	Hd.	WII	+0.020		+0.40	II	2.6	2
	6	Fn.	WII	+0.032		+0.20	I	2.5	2
	9	Hd.	WII	+0.001		+0.30	II	2.6	3
	11	Fn.	EII	+0.009		+0.43	0	---	2
	19	Hd.	EII	+0.010		+0.19	II	---	2
	20	Fn.	EII	+0.002		−0.63	0	---	3½
Nov.	*16*	*Fn.*	*WI*	*+0.038*	*+0.99*	*+1.04*	*0*	---	*3½*
	17	*R.*	*WI*	-----	*−0.61*	*−0.54*	*0*	---	--
	18	*Hd.*	*WI*	*+0.092*	*−0.34*	*−0.30*	*0*	---	--
	20	*R.*	*WI*	*+0.071*	*+0.18*	*+0.23*	*0*	---	--
	21	*Hd.*	*WI*	*+0.046*	*+0.48*	*+0.52*	*0*	---	*3*
Dec.	*1*	*R.*	*EI*	-----	*+0.07*	*+0.10*	*0*	---	--
	3	*Fn.*	*EI*	*+0.014*	*−0.26*	*−0.26*	*0*	---	*3*
	4	*Fn.*	*EI*	*+0.040*	*−0.43*	*−0.43*	*0*	---	*3*
	8	*R.*	*EI*	*−0.017*	*−0.62*	*−0.62*	*0*	---	--
	11	*R.*	*EI*	*−0.030*	*−0.26*	*−0.24*	*0*	---	--
	12	*Hd.*	*EI*	*−0.031*	*+0.53*	*+0.52*	*0*	---	--
	14	*Fn.*	*WI*	*−0.018*	*+0.45*	*+0.46*	*0*	---	*2*
	16	*Hd.*	*WI*	*+0.060*	*+0.26*	*+0.29*	*0*	---	*2*
	17	*Fn.*	*WI*	*−0.004*	*+0.22*	*+0.23*	*0*	---	*2*
	18	*R.*	*WI*	*−0.028*	*+0.55*	*+0.58*	*0*	---	--
	19	*Hd.*	*WI*	*−0.002*	*+0.48*	*+0.50*	*0*	---	*2*
	21	*Fn.*	*WI*	*+0.044*	*+0.48*	*+0.49*	*0*	---	*2*
	23	*Hd.*	*WI*	-----	*+0.82*	*+0.82*	*0*	---	*2*
	26	*Wy.*	*WI*	*+0.013*	*−0.83*	*−0.82*	*0*	---	*3*
1914									
Mar.	12	Hd.	WI	+0.001		−0.02	I	---	3
	13	Fn.	WI	−0.010		----	I	2.4	2
	22	Wy.	EI	−0.024		−0.03	I	2.9	2
Apr.	3	Fn.	WI	+0.028		−0.04	I	2.9	2
	22	Fn.	EI	+0.023		----	I	3.4	2
May	18	Fn.	WI	+0.086		+0.05	I	2.4	2
	19	Wy.	WI	+0.006		−0.16	I	2.9	2½
	20	Hd.	WI	+0.015		+0.07	II	2.6	2½
	21	Fn.	WI	+0.032		+0.06	I	2.4	2½
	22	Wy.	EI	+0.016		−0.05	I	2.4	2½
	25	Fn.	EI	+0.004		−0.47	I	2.9	2½
	26	Wy.	EI	+0.006		+0.58	I	2.9	2½
June	2	Fn.	EI	−0.004		−0.40	I	2.9	2
	3	Wy.	EI	+0.006		----	0	---	3
	5	Fn.	EI	+0.044		+0.53	I	2.9	2
	6	Wy.	EI	+0.010		+0.57	I	2.4	2
	8	Fn.	EI	+0.031		+0.77	I	---	2½
	9	Wy.	EI	−0.012		+0.32	II	---	2½
	10	Hd.	EI	+0.019		+0.14	0	---	2
	11	Fn.	EI	+0.011		+0.28	I	2.9	2
	13	Wy.	EI	+0.007		+0.75	II	2.6	2
	16	Hd.	EI	+0.004		+0.43	II	---	2
	17	Wy.	EI	+0.018		+0.80	II	2.6	2½
	20	Wy.	WI	−0.032		+0.27	II	2.6	2½
	23	Hd.	WI	+0.014		−0.42	I	---	2½
	24	Wy.	WI	+0.012		+0.52	II	2.6	2½
Sept.	*28*	*Hd.*	*WI*	*+0.055*	*+0.54*	*+0.59*	*0*	---	*3*
	29	*Wy.*	*WI*	*−0.031*	*+0.19*	*+0.24*	*0*	---	*3½*
	30	*An.*	*WI*	*−0.004*	----	----	*0*	---	*3½*
Oct.	*2*	*Wy.*	*WI*	*+0.013*	*+0.02*	*+0.08*	*0*	---	*4*
	10	*An.*	*WI*	*+0.014*	----	----	*0*	---	*3*
	17	*An.*	*EI*	*−0.031*	----	----	*0*	---	*3½*
Nov.	*9*	*Fn.*	*WI*	*+0.095*	----	----	*0*	---	*3½*
	11	*Hd.*	*WI*	-----	*−0.08*	*−0.05*	*0*	---	*3½*
	12	*Fn.*	*WI*	*+0.018*	*+0.52*	*+0.51*	*0*	---	*3½*
	17	*Fn.*	*EI*	*−0.068*	*−0.79*	*−0.72*	*0*	---	*3½*
	19	*Wy.*	*EI*	*+0.046*	*−0.09*	*−0.07*	*0*	---	*3½*
	20	*Fn.*	*EI*	*+0.076*	*−0.16*	*−0.11*	*0*	---	*3½*
	25	*Wy.*	*EI*	*+0.011*	*+0.40*	*+0.40*	*0*	---	*3½*
	27	*Wy.*	*EI*	*+0.079*	*+0.42*	*+0.48*	*0*	---	*3*
Dec.	*11*	*An.*	*WI*	*−0.002*	*−0.08*	*−0.07*	*0*	---	*3*
	15	*An.*	*WI*	*−0.037*	*+0.38*	*+0.40*	*I*	---	*2½*
	16	*Fn.*	*WI*	*−0.017*	*+0.41*	*+0.44*	*0*	---	*2½*
	17	*Hd.*	*WI*	*+0.004*	*0.00*	*+0.03*	*I*	---	*2*
	22	*Hd.*	*WI*	*+0.007*	*+0.41*	*+0.41*	*0*	---	*3*
1915									
Jan.	*4*	*Wy.*	*EI*	-----	*−0.06*	*−0.07*	*I*	---	*2½*
	7	*Wy.*	*EI*	*+0.065*	*−0.07*	*−0.09*	*I*	---	*3*
	8	*An.*	*EI*	*+0.048*	----	----	*I*	---	*2*
	12	*An.*	*WI*	*+0.015*	----	----	*I*	---	*3½*

[1] Double; s. fol. component observed.

				″	″			
1915								
Apr. 23	Wy.	WI	+0.006		----	II	---	2½
30	Wy.	EI	+0.019		----	I	---	3½
May 3	Fn.	EI	+0.005		----	I	2.9	3
4	Wy.	EI	+0.012		+0.04	II	2.6	3
5	Hd.	EI	+0.039		+0.26	II	2.6	2
14	Fn.	WI	+0.023		----	0	---	2½
15	Wy.	WI	+0.042		+0.53	I	---	2½
19	Fn.	EI	+0.010		+0.72	I	1.9	2
27	Wy.	WI	+0.034		+0.50	I	---	2½
June 8	Hd.	EI	+0.035		+0.66	II	---	2
12	An.	WI	+0.015		+0.08	II	3.1	2
17	Fn.	WI	+0.021		+0.40	II	2.6	2½
18	Hd.	WI	+0.014		+0.25	II	2.6	2
19	Wy.	WI	+0.006		+0.57	II	2.6	2½
20	An.	EI	+0.033		+0.11	II	3.1	2
22	Wy.	EI	−0.002		+0.56	II	2.6	3
23	An.	EI	-----		−0.12	II	3.1	2
24	Fn.	EI	+0.047		+0.92	I	2.9	2
25	Wy.	EI	+0.035		+0.33	II	2.6	2½
27	Hd.	EI	+0.008		+0.56	II	2.6	2½
July 5	Hd.	WI	+0.031		----	II	2.6	2
6	Fn.	WI	+0.023		+0.42	I	2.9	2½
Nov. 12	*Fn.*	*WI*	*−0.011*	*−0.13*	*−0.10*	*0*	---	*3½*
16	*Wy.*	*WI*	*+0.018*	*−1.17*	*−1.16*	*0*	---	*3½*
17	*Hd.*	*WI*	-----	*−0.06*	*0.00*	*0*	---	*3*
23	*Hd.*	*EI*	*+0.035*	*+0.12*	*+0.15*	*0*	---	*2½*
25	*Wy.*	*EI*	*+0.028*	*−0.55*	*−0.51*	*0*	---	*3½*
29	*Fn.*	*EI*	*−0.008*	*−0.18*	*−0.16*	*0*	---	*3½*
30	*Wy.*	*EI*	-----	*−0.13*	*−0.09*	*0*	---	*3½*
Dec. 2	*Fn.*	*EI*	*+0.066*	*−0.50*	*−0.49*	*0*	---	*3*
3	*Hd.*	*EI*	*+0.065*	*+0.25*	*+0.25*	*0*	---	*2*
6	*Wy.*	*WI*	*−0.022*	*−0.06*	*−0.05*	*0*	---	*3½*
9	*Wy.*	*WI*	*+0.022*	*−0.24*	*−0.23*	*0*	---	*3½*
10	*Fn.*	*WI*	-----	*−0.47*	*−0.45*	*0*	---	*3*
14	*Fn.*	*WI*	*+0.030*	*+0.24*	*+0.26*	*0*	---	*3*
19	*Hd.*	*WI*	-----	*+0.08*	*+0.09*	*0*	---	*3*
20	*Fn.*	*WI*	*+0.044*	*−0.58*	*−0.56*	*0*	---	*3½*
22	*Wy.*	*WI*	*+0.015*	*+0.55*	*+0.59*	*0*	---	*3*
1916								
Feb. 3	Fn.	EI	−0.016		+0.66	I	2.9	2½
7	Fn.	EI	+0.033		+0.18	I	2.4	2
June 2	Hd.	EI	+0.011		−0.01	I	---	3
12	Wy.	EI	+0.016		+0.21	I	2.9	2½
17	Wy.	WI	+0.053		+0.21	II	2.1	2
19	Fn.	WI	+0.046		−0.30	0	---	3½
20	Hd.	WI	+0.018		+0.25	I	2.9	2
22	Fn.	WI	−0.013		+0.33	I	2.9	2
23	Hd.	WI	−0.007		+0.06	II	2.6	2
26	Hd.	WI	+0.020		+0.29	II	2.6	2
29	Hd.	WI	−0.011		−0.33	I	---	2
July 6	*Wy.*	*EI*	*−0.006*	*+0.52*	*+0.52*	*II*	---	*2*
7	*Fn.*	*EI*	*+0.006*	*−0.26*	*−0.25*	*I*	---	*2*
11	*Fn.*	*EI*	*+0.011*	*−0.40*	*−0.39*	*I*	---	*2*
13	*Hd.*	*EI*	*−0.018*	*−0.42*	*−0.41*	*I*	---	*2*
14	*Fn.*	*EI*	*0.000*	*−0.31*	*−0.30*	*0*	---	*2½*
27	*Fn.*	*WI*	*+0.051*	*+0.42*	*+0.42*	*0*	---	*3*
Aug. 4	*Fn.*	*WI*	*+0.023*	*+0.43*	*+0.43*	*0*	---	*3*
7	*Wy.*	*EI*	*−0.046*	*−0.07*	*−0.05*	*0*	---	*3½*
22	*Fn.*	*EI*	*−0.018*	*+1.06*	*+1.08*	*0*	---	*3½*
25	*Fn.*	*WI*	*+0.015*	*−0.63*	*−0.59*	*0*	---	*3½*
Sept. 5	*Wy.*	*WI*	*+0.004*	*−0.71*	*−0.70*	*0*	---	*3½*
19	*Hd.*	*EI*	*−0.045*	*−0.87*	*−0.83*	*0*	---	*3½*
22	*Hd.*	*EI*	*+0.039*	*−0.42*	*−0.40*	*0*	---	*3*
26	*Hd.*	*EI*	*+0.006*	*−0.85*	*−0.79*	*0*	---	*3½*
Oct. 12	*Hd.*	*WI*	*+0.058*	*−0.29*	*−0.23*	*0*	---	*3½*
17	*Fn.*	*WI*	*−0.016*	*−0.66*	*−0.62*	*0*	---	*3½*
Nov. 9	*Fn.*	*EI*	*+0.052*	*−0.09*	*−0.05*	*0*	---	*3½*
19	*Fn.*	*WI*	*+0.090*	*+0.07*	*+0.07*	*0*	---	*3½*
Dec. 6	*Fn.*	*EI*	*+0.061*	*+0.31*	*+0.31*	*0*	---	*3*
7	*Hd.*	*EI*	*−0.001*	*−0.45*	*−0.43*	*0*	---	*3*
13	*Fn.*	*EI*	*+0.005*	*−0.89*	*−0.86*	*0*	---	*2½*
25	*Fn.*	*WI*	*+0.043*	*−0.41*	*−0.40*	*0*	---	*2½*
28	*Hd.*	*WI*	*+0.015*	*+0.07*	*+0.06*	*I*	---	*3*
1917								
Jan. 1	*Wy.*	*WI*	*+0.022*	*+1.02*	*+0.98*	*0*	---	*3½*
8	*Fn.*	*EI*	*+0.010*	*+0.10*	*+0.13*	*0*	---	*3*
June 4	Wy.	WI	+0.038		+0.32	II	2.6	2
19	Fn.	WII	+0.057		+0.48	I	---	2½

			s	″	″			
1917								
June 21	Wy.	WII	−0.004		0.00	I	3.9	2½
22	Fn.	WII	+0.016		+0.36	I	2.9	2½
25	Wy.	WII	−0.018		−0.10	II	2.6	2
July 6	*Fn.*	*EII*	*+0.017*	*+0.38*	*+0.38*	*I*	---	*2*
30	*Wy.*	*EII*	*+0.044*	*+0.01*	*+0.02*	*0*	---	*3*
Aug. 20	*Fn.*	*WII*	*−0.018*	*+0.17*	*+0.18*	*0*	---	*3*
21	*Wy.*	*WII*	*−0.016*	*−0.59*	*−0.59*	*0*	---	*3½*
Sept. 4	*Fn.*	*EII*	*+0.016*	----	----	*0*	---	*3*
11	*Fn.*	*EII*	*+0.032*	*−0.10*	*−0.06*	*0*	---	*3½*
13	*Hd.*	*EII*	*+0.049*	*−0.35*	*−0.31*	*0*	---	*3½*
17	*Hd.*	*EII*	*+0.025*	*+0.05*	*+0.09*	*0*	---	*3*
20	*Hd.*	*WII*	*+0.004*	*−0.02*	*+0.02*	*0*	---	*3½*
Oct. 2	*Fn.*	*WII*	*−0.020*	*+0.41*	*+0.50*	*0*	---	*3½*
22	*Hd.*	*EII*	*+0.125*	*−0.66*	*−0.64*	*0*	---	*3½*
Nov. 14	*Wy.*	*WII*	*−0.023*	*+0.39*	*+0.42*	*0*	---	*3½*
19	*Fn.*	*WII*	*−0.033*	*−0.01*	*+0.02*	*0*	---	*3½*
26	*Wy.*	*WII*	-----	*−0.09*	*−0.04*	*0*	---	*3½*
Dec. 9	*Fn.*	*WII*	*+0.079*	*+1.12*	*+1.15*	*0*	---	*3½*
1918								
Jan. 9	*Fn.*	*EII*	*+0.021*	*+0.33*	*+0.32*	*0*	---	*3*
May 15	Fn.	WII	+0.043		+0.26	I	---	1½
June 24	Wy.	WII	+0.014		+0.17	II	1.6	2½
27	Wy.	WII	+0.026		+0.70	II	2.6	2
28	Hd.	WII	+0.003		+0.36	I	---	2
July 1	Wy.	WII	+0.028		−0.80	II	2.1	3
2	Hd.	WII	+0.022		+0.84	II	2.6	2
9	*Hd.*	*EII*	*−0.006*	*−0.08*	*−0.08*	*I*	---	*2*
15	*Wy.*	*EII*	*+0.019*	*+0.44*	*+0.43*	*II*	---	*2½*
16	*Hd.*	*EII*	*+0.017*	*+0.12*	*+0.14*	*I*	---	*2*
23	*Fn.*	*EII*	*+0.054*	*+0.15*	*+0.17*	*0*	---	*2*
Aug. 15	*Fn.*	*WII*	*−0.041*	*+0.08*	*+0.10*	*0*	---	*3*
Mean		1914.24	+0.015		+0.27			
		1914.31						
Corr			−0.081		−0.24			

Weisse, XIV 839

			h m s	° ′ ″				
1912								
May 24	Hd.	EII	14 41 27.816	+33 10	8.18	0	6.5	2
26	Hd.	EII	27.739		8.90	0	6.2	2
31	Hd.	WII	27.848		8.73	0	6.0	2
June 1	R.	WII	27.866		8.78	0	6.0	1
1915								
Apr. 24	An.	WI	27.855		9.13	0	6.5	2
May 8	Hd.	EI	27.835		8.85	0	6.5	2
9	Wy.	EI	27.850		8.29	0	6.0	2
25	Fn.	WI	27.827		8.72	0	---	2½
Mean		1913.88	14 41 27.830	+33 10	8.70			
Corr			−0.081		−0.26			

109 Virginis

			h m s	° ′ ″				
			14 41 41.842	+2 16	18.03			
1913								
Feb. 8	R.	WII	+0.018		−0.53	I	4.4	3½
15	R.	WII	+0.042		−0.64	I	4.4	3
25	R.	EII	+0.018		+0.13	I	4.9	3½
Mar. 11	R.	EII	+0.013		+0.06	I	3.9	2½
1914								
Feb. 26	Hd.	EI	+0.002		−0.60	I	4.4	3
27	Fn.	EI	−0.001		−0.06	I	3.9	2
Mar. 3	Fn.	WI	+0.049		+0.02	I	3.9	3½
4	Wy.	WI	+0.002		−0.59	0	4.5	3
Mean		1913.66	+0.018		−0.28			
Corr			−0.081		−0.18			

B. D. +15° 2758

			h m s	° ′ ″				
1912								
May 27	Fn.	EII	14 41 51.444	+15 30	35.17	0	---	2
28	Hd.	WII	51.476		33.87	0	5.5	3
30	Fn.	WII	51.440		34.17	0	5.7	2½
June 5	R.	EII	51.446		34.61	0	6.0	2

				h m s	° ′ ″			
1915								
Apr. 17	An.	WI		51.447	34.29	I	5.4	2½
19	Fn.	WI		51.460	33.53	0	6.5	3
May 10	Hd.	EI		51.486	34.22	0	6.0	3
17	Hd.	EI		51.423	34.48	0	6.0	3
Mean	1913.87		14	41 51.453	+15 30 34.29			
Corr				−0.081	−0.22			

Bradley 1886

				h m s	° ′ ″			
1913								
Mar. 31	Fn.	EII	14	42 29.430	−25 42 36.39	0	6.0	3½
Apr. 1	R.	EII		29.424	39.29	0	...	4
8	R.	WII		29.512	39.89	0	6.5	4½
16	Hd.	WII		29.416	38.55	0	5.8	3½
1914								
Apr. 10	Wy.	WI		29.381	38.88	0	6.0	3
13	Fn.	EI		29.461	38.70	0	6.0	3
21	Hd.	EI		29.436	38.36	0	6.0	3
May 6	Fn.	WI		29.337	39.06	0	6.5	2½
Mean	1913.78		14	42 29.425	−25 42 38.64			
Corr				−0.081	−0.02			

Weisse$_1$ XIV 772

				h m s	° ′ ″			
1912								
Apr. 27	R.	EII	14	44 16.635	−0 28 24.60	0	7.0	2½
May 1	R.	EII		16.663	24.89	0	7.0	2½
9	Fn.	WII		16.613	25.06	0	6.4	2½
10	Hd.	WII		16.634	24.84	0	6.2	2
1915								
May 19	Fn.	EI		16.649	24.70	0	6.0	3
27	Wy.	WI		16.605	25.03	0	...	3
June 4	An.	WI		16.599	.....	0	7.0	2½
8	Hd.	EI		16.618	24.84	0	...	2
12	An.	WI		16.592	25.70	0	7.0	3
Mean	1914.05		14	44 16.623	−0 28 24.96			
	1913.88							
Corr				−0.081	−0.18			

295 B. Boötis

				h m s	° ′ ″			
1916								
Mar. 3	Hd.	WI	14	45 34.563	+38 10	0	6.0	2
June 17	Wy.	WI		34.610	.....	0	6.0	2
20	Hd.	WI		34.557	.....	0	6.5	3
23	Hd.	WI		34.588	.....	0	6.0	2
26	Hd.	WI		34.579	.....	0	6.0	2
29	Hd.	WI		34.581	.....	0	...	2
July 6	*Wy.*	*EI*		*34.577*	.....	*0*	...	*2*
11	*Fn.*	*EI*		*34.587*	.....	*0*	...	*2*
13	*Hd.*	*EI*		*34.548*	.....	*0*	...	*2*
17	*Hd.*	*EI*		*34.587*	.....	*0*	...	*2*
1917								
July 6	*Fn.*	*EII*		*34.560*	.....	*0*	...	*2*
1918								
May 15	Fn.	WII		34.591	.....	0	6.0	1½
June 19	Wy.	WII		34.566	.....	0	6.0	2
27	Wy.	WII		34.561	.....	0	6.0	2
July 1	Wy.	WII		34.573	.....	0	6.0	2½
Mean	1917.24		14	45 34.577	+38 10			
Corr				−0.081	.....			

8 Libræ

				h m s	° ′ ″			
			14	45 42.343	−15 37 24.67			
1913								
Mar. 22	R.	WII		+0.019	−0.74	0	6.0	2
28	Fn.	EII		+0.012	−0.31	0	5.3	2
30	R.	EII		+0.066	−0.24	0	...	4
Apr. 6	R.	WII		−0.018	−0.71	0	6.0	2
1914								
Mar. 24	Fn.	EI		+0.067	−0.87	0	...	4
26	Hd.	EI		+0.079	−0.48	0	5.5	3

				s	″			
1914								
Apr. 6	Fn.	WI		+0.049	−1.47	0	5.5	3½
9	Fn.	WI		+0.053	−0.26	0	5.0	2½
Mean	1913.74			+0.041	−0.64			
Corr				−0.081	−0.11			

α Libræ

				h m s	° ′ ″			
			14	45 53.784	−15 40 5.90			
1911				s	″			″
May 26	Hd.	EII		+0.085	+0.70	I	1.9	..
27	T.	EII		+0.088	−0.22	I	2.9	..
29	Fn.	WII		+0.059	−0.73	I	...	2
June 1	Fn.	WII		+0.062	−0.36	I	3.5	..
2	Hd.	WII		+0.043	−0.13	I	2.4	..
8	Fn.	WII		+0.057	−0.56	I	3.7	..
9	Hd.	WII		+0.059	+0.11	I	2.9	..
11	R.	EII		+0.066	....	I	...	..
15	Fn.	EII		+0.036	−0.63	I	2.5	2
16	Hd.	EII		+0.077	....	0	...	..
20	Hd.	EII		+0.062	+1.06	I	3.4	..
21	T.	EII		+0.033	−0.86	I	2.4	..
22	Fn.	EII		+0.094	−1.20	I	4.1	..
27	Hd.	WII		+0.047	+1.37	0	...	..
28	T.	WII		+0.042	+0.53	I	3.4	..
30	Hd.	WII		+0.045	....	I	2.9	..
Dec. 27	*Hd.*	*EII*		*−0.019*	*+1.05*	*+1.18*	*0*	... *3*
1912								
Jan. 4	*R.*	*EII*		.....	*+1.26*	*+1.39*	*0*	... ..
9	*Fn.*	*EII*		*+0.062*	*0.00*	*+0.37*	*0*	... ..
May 2	Fn.	EII		+0.104	....		I	... 3
3	Hd.	EII		+0.067	....		I	2.9 2
4	R.	WII		+0.011	....		I	... 5
13	Fn.	WII		+0.040	....		I	2.5 2½
18	Hd.	EII		+0.066	....		I	2.4 3
19	R.	EII		+0.069	....		0	... 4
20	Fn.	EII		+0.097	....		I	... 3½
21	Hd.	WII		+0.051	....		I	2.7 3
26	Hd.	EII		+0.067	−0.22		I	2.4 3
27	Fn.	EII		+0.085	....		I	2.5 3
31	Hd.	WII		+0.054	....		II	2.6 ..
June 3	Fn.	WII		+0.098	−0.74		I	3.4 2½
8	R.	EII		+0.060	−0.11		I	... 2½
Dec. 12	*Hd.*	*EII*		*+0.036*	*+1.69*	*+1.82*	*0*	... *3*
1913								
Jan. 1	*R.*	*WII*		.....	*−0.74*	*−0.71*	*0*	... *3*
8	*R.*	*WII*		*+0.049*	....	....	*0*	... *2*
Mar. 29	R.	EII		+0.041		....	I	... ..
Apr. 3	R.	EII		+0.094		....	0	... 4
17	R.	WII		+0.099		....	I	2.9 3
30	R.	EII		+0.062		+0.19	I	2.9 3½
May 1	Hd.	EII		+0.078		−0.92	I	2.9 3
2	Fn.	EII		+0.060		+0.66	I	... 3
3	R.	EII		+0.020		−0.08	I	2.9 2
5	Hd.	EII		+0.071		−0.63	I	... 3½
6	Fn.	EII		+0.055		+0.40	0	... 3
8	Hd.	EII		+0.019		+0.04	I	2.9 2
10	R.	EII		+0.061		+0.40	I	3.4 2½
15	Hd.	WII		+0.080		−0.01	0	... 2
19	Hd.	WII		+0.044		....	II	3.1 2
20	Fn.	WII		+0.085		−0.89	I	2.9 2½
29	Hd.	WII		+0.063		−0.21	0	... 2½
June 2	Hd.	WII		+0.051		+0.32	I	2.9 3
4	R.	WII		+0.044		−0.73	I	3.4 3½
5	Hd.	WII		+0.060		+0.49	II	3.1 2
6	Fn.	WII		+0.066		+0.03	I	2.9 3
9	Hd.	WII		+0.059		+0.35	II	3.1 3½
10	R.	WII		+0.056		+0.33	II	2.6 2½
11	Fn.	EII		+0.047		−0.65	I	2.9 3
19	Hd.	EII		+0.054		−0.46	I	... 3
Dec. 12	*Hd.*	*EI*		*+0.023*	*+0.35*	*+0.29*	*0*	... *3½*
19	*Hd.*	*WI*		*+0.049*	*−0.50*	*−0.34*	*0*	... *3*
1914								
Feb. 7	Wy.	EI		+0.074		+0.31	I	3.4 2½
Mar. 12	Hd.	WI		+0.063		....	0	... 3
20	Fn.	EI		+0.047		....	I	2.4 3
22	Wy.	EI		+0.080		....	I	2.9 2
Apr. 1	Wy.	WI		+0.022		−1.26	I	2.9 3½

				s	"	"			
1914									
Apr.	17	Wy.	EI	+0.058		----	I	---	3
	23	Wy.	EI	+0.066		−0.36	I	3.4	2½
	27	Wy.	EI	+0.035		−0.01	I	2.9	2
	30	Wy.	WI	+0.073		−0.23	I	2.9	3
May	2	Fn.	WI	+0.045		−1.32	I	3.4	3
	6	Fn.	WI	+0.047		−0.46	I	3.4	2½
	15	Wy.	WI	+0.092		+0.17	I	3.9	3½
	16	Fn.	WI	+0.051		+0.13	I	2.9	3
	18	Fn.	WI	+0.052		−0.82	I	2.9	3
	19	Wy.	WI	+0.076		−0.95	I	3.9	3
	20	Hd.	WI	+0.061		−0.63	I	3.4	3
	21	Fn.	WI	+0.050		−0.36	I	2.9	3½
	22	Wy.	EI	+0.106		−0.53	I	3.4	3
	25	Fn.	EI	+0.094		+0.47	I	---	3
	26	Wy.	EI	+0.069		−0.54	I	---	3½
	29	Hd.	EI	+0.112		−0.08	0	---	2½
June	2	Fn.	EI	+0.073		+0.35	I	2.9	2½
	5	Fn.	EI	+0.091		+0.24	I	3.4	3
	6	Wy.	EI	+0.013		+0.35	I	3.4	2½
	13	Wy.	EI	+0.030		+0.31	I	3.9	3
	15	Fn.	EI	+0.069		+0.34	I	3.4	3
	16	Hd.	EI	+0.028		----	I	2.9	2
	17	Wy.	EI	+0.071		+0.74	I	3.4	3
	20	Wy.	WI	+0.056		−0.26	I	2.9	3
	23	Hd.	WI	+0.078		−1.03	0	---	3
	24	Wy.	WI	+0.045		−0.98	I	3.4	2½
Dec.	*17*	*Hd.*	*WI*	*+0.113*	*−0.67*	*−0.40*	*0*	---	*3*
1915									
Jan.	*4*	*Wy.*	*EI*	*+0.051*	*−0.60*	*−0.67*	*0*	---	*3*
	7	*Wy.*	*EI*	*+0.026*	*−0.61*	*−0.72*	*0*	---	*3½*
	12	*An.*	*WI*	*+0.076*	*−0.50*	*−0.50*	*0*	---	*4*
	20	Wy.	EI	+0.081		----	I	3.4	3½
	28	Wy.	EI	+0.064		----	I	3.4	3
Apr.	26	Fn.	EI	+0.041		−1.14	0	---	3
May	3	Fn.	EI	+0.056		----	I	3.4	3½
	4	Wy.	EI	+0.076		−0.23	II	3.1	3½
	5	Hd.	EI	+0.059		−0.35	I	3.4	3½
	8	Hd.	EI	+0.088		----	I	3.9	2½
	14	Fn.	WI	+0.074		----	0	---	3
	15	Wy.	WI	+0.021		+0.10	I	3.4	3
	31	Wy.	WI	+0.063		----	0	---	3
June	9	An.	EI	+0.052		−0.16	II	3.1	3
	10	Fn.	EI	+0.048		0.00	I	2.9	3
	17	Fn.	WI	+0.020		−0.82	I	2.9	3
	18	Hd.	WI	+0.046		----	I	3.4	2½
	19	Wy.	WI	+0.043		----	I	3.4	3
	20	An.	EI	−0.004		−0.28	II	3.6	2½
	22	Wy.	EI	+0.011		+0.08	I	3.9	3½
	23	An.	EI	-----		+0.30	II	3.6	3
	24	Fn.	EI	+0.002		−0.45	I	3.4	2½
	25	Wy.	EI	+0.027		+0.13	I	3.4	3
	27	Hd.	EI	+0.046		−0.09	I	2.9	3
July	5	Hd.	WI	+0.052		−0.08	I	2.9	2½
	6	Fn.	WI	+0.077		−0.39	I	3.4	2½
Dec.	*6*	*Wy.*	*WI*	-----	*−1.00*	*−0.92*	*0*	---	*3½*
	20	*Fn.*	*WI*	*+0.119*	*−1.60*	*−1.46*	*0*	---	*3½*
	22	*Wy.*	*WI*	*+0.083*	*−0.47*	*−0.02*	*0*	---	*3½*
Mean		1913.67		+0.059		−0.17			
		1913.76							
Corr				−0.081		−0.11			

Piazzi XIV 193

				h	m	s	°	′	″			
1911												
May	20	T.	WII	14	46	5.923	+28	59	17.56	0	---	--
	22	Fn.	WII			5.914			16.96	0	6.3	--
	23	Hd.	EII			5.903			17.19	0	---	--
	24	T.	EII			5.881			17.64	0	---	--
	25	Fn.	EII			5.901			17.38	0	---	--
1915												
Apr.	7	An.	EI			5.969			17.40	0	6.0	2
	8	Hd.	EI			5.960			17.31	0	6.0	2
	13	Fn.	WI			5.924			16.95	0	6.0	3½
	14	An.	WI			5.856			17.53	0	---	2½
Mean		1913.12		14	46	5.915	+28	59	17.32			
Corr						−0.081			−0.25			

Groombridge 2154

				h	m	s	°	′	″			
1913												
Feb.	8	R.	WII	14	46	56.439	+37	38	27.11	0	6.0	3½
	15	R.	WII			56.444			27.56	0	6.0	2
	25	R.	EII			56.469			28.04	0	6.0	3
Mar.	29	R.	EII			56.438			27.01	0	6.0	2
1914												
Feb.	26	Hd.	EI			56.412			27.96	0	6.5	2
	27	Fn.	EI			56.423			28.01	0	6.0	1½
Mar.	3	Fn.	WI			56.417			28.00	0	5.5	3½
	4	Wy.	WI			56.397			28.04	0	5.5	2½
Mean		1913.66		14	46	56.430	+37	38	27.72			
Corr						−0.081			−0.27			

Lacaille 6127

				h	m	s	°	′	″			
1912												
May	24	Hd.	EII	14	47	11.196	−30	13	23.71	0	7.5	3
	25	R.	EII			11.145			23.06	0	7.5	2½
	28	Hd.	WII			11.099			23.89	0	7.0	3
	30	Fn.	WII			11.122			22.54	0	---	3½
1915												
Apr.	17	An.	WI			11.080			23.92	0	7.0	3½
May	9	Wy.	EI			11.038			23.56	0	7.0	3½
	10	Hd.	EI			11.093			23.86	0	7.5	3½
	27	Wy.	WI			11.102			23.85	0	---	3½
June	12	An.	WI			11.059			24.02	0	---	3½
Mean		1914.05		14	47	11.104	−30	13	23.60			
Corr						−0.081			+0.03			

Groombridge 2164

				h	m	s	°	′	″			
				14	49	9.217	+59	39	34.62			
1912												
May	13	Fn.	WII			+0.011			+0.58	0	5.5	1½
	18	Hd.	EII			−0.068			+0.45	0	6.0	3
	19	R.	EII			−0.069			+0.85	0	---	2
	21	Hd.	WII			−0.050			+0.20	0	5.5	2
1915												
May	8	Hd.	EI			−0.031			+0.27	0	6.0	3
	17	Hd.	EI			−0.065			+0.14	0	6.0	3½
	25	Fn.	WI			+0.050			----	0	---	3
	31	Wy.	WI			+0.026			+0.27	0	---	2½
June	18	Hd.	WI			+0.025			+0.28	I	5.4	2
Mean		1914.06				−0.019			+0.38			
		1913.89										
Corr						−0.081			−0.32			

Weisse$_1$ XIV 880

				h	m	s	°	′	″			
1913												
Apr.	2	Fn.	EII	14	49	12.563	+6	36	32.03	0	7.0	3½
	8	R.	WII			12.565			32.16	0	7.0	2½
	16	Hd.	WII			12.569			31.95	0	6.5	3
	21	Hd.	EII			12.557			32.09	0	6.2	3
1914												
Mar.	12	Hd.	WI			12.548			31.88	0	---	3
	13	Fn.	WI			12.579			31.89	0	7.0	2
	20	Fn.	EI			12.481			31.32	0	7.0	2½
	22	Wy.	EI			12.530			32.55	0	6.5	2
Mean		1913.74		14	49	12.549	+6	36	31.98			
Corr						−0.081			−0.20			

β Ursæ Minoris

				h	m	s	°	′	″			
				14	50	57.463	+74	31	23.88			
						s			″			
1913												
Mar.	30	R.	EII			−0.08			----	I	---	2
	31	Fn.	EII			−0.02			+0.29	I	1.9	2½
Apr.	1	R.	EII			−0.26			+0.81	II	2.6	2½
	6	R.	WII			−0.18			+0.56	II	3.1	2
	7	Fn.	WII			−0.12			+0.53	II	2.5	2
1914												
Mar.	24	Fn.	EI			−0.15			+1.01	I	2.9	3
	26	Hd.	EI			−0.05			+0.49	II	2.6	3

				s	"	"			
1914									
Apr.	3	Fn.	WI	−0.08		+0.57	I	1.9	2
	6	Fn.	WI	−0.13		+0.23	I	2.4	3½
1916									
June	1	Fn.	EI	−0.08		+0.47	0	---	2
	2	Hd.	EI	−0.11		+0.82	I	---	3
	12	Wy.	EI	−0.11		+0.36	II	2.6	2½
	17	Wy.	WI	+0.01		−0.07	II	2.1	2
	22	Fn.	WI	−0.22		+0.03	I	2.4	2
	26	Hd.	WI	−0.09		+0.71	II	2.6	2
	29	Hd.	WI	−0.22		+0.32	I	---	2
July	6	Wy.	EI	−0.14		+0.88	II	2.6	2½
	7	*Fn.*	*EI*	*−0.07*	*+0.54*	*+0.50*	*I*	---	*2*
	11	*Fn.*	*EI*	*−0.09*	*+0.57*	*+0.52*	*I*	---	*2*
	13	*Hd.*	*EI*	*−0.11*	*+0.21*	*+0.18*	*II*	---	*2*
	14	*Fn.*	*EI*	*−0.16*	*+0.32*	*+0.27*	*0*	---	*2*
	21	*Wy.*	*EI*	*−0.09*	*0.00*	*+0.03*	*I*	---	*3*
	27	*Fn.*	*WI*	*−0.07*	*+0.42*	*+0.39*	*0*	---	*2½*
Aug.	1	*Fn.*	*WI*	*−0.07*	*+1.22*	*+1.18*	*0*	---	*3½*
	4	*Fn.*	*WI*	*−0.19*	*+1.21*	*+1.21*	*0*	---	*3½*
	7	*Wy.*	*EI*	*−0.13*	*+0.33*	*+0.28*	*0*	---	*3*
	21	*Wy.*	*EI*	*−0.24*	*+0.59*	*+0.54*	*0*	---	*3½*
	24	*Wy.*	*WI*	*+0.10*	*+0.52*	*+0.42*	*0*	---	*3½*
Sept.	5	*Wy.*	*WI*	*−0.18*	*+0.75*	*+0.71*	*0*	---	*4*
	11	*Hd.*	*WI*	----	*+0.77*	*+0.61*	*0*	---	*3*
	19	*Hd.*	*EI*	*−0.31*	*−0.16*	*−0.27*	*I*	---	*3*
	20	*Wy.*	*EI*	*−0.08*	*+0.79*	*+0.76*	*0*	---	*3½*
	22	*Hd.*	*EI*	*−0.07*	*+0.75*	*+0.70*	*0*	---	*3*
	26	*Hd.*	*EI*	*−0.13*	*+0.86*	*+0.64*	*0*	---	*4*
Oct.	6	*Wy.*	*WI*	*−0.16*	*+0.69*	*+0.58*	*0*	---	*3½*
	10	*Fn.*	*WI*	*0.00*	*+0.50*	*+0.35*	*0*	---	*3½*
	12	*Hd.*	*WI*	*+0.11*	*+0.83*	*+0.65*	*0*	---	*4*
Nov.	15	*Wy.*	*WI*	*−0.11*	*+0.45*	*+0.30*	*0*	---	*4*
	26	*Wy.*	*WI*	*−0.05*	*+0.12*	*−0.02*	*0*	---	*3½*
Dec.	6	*Fn.*	*EI*	*0.00*	*+1.26*	*+1.25*	*0*	---	*3½*
	7	*Hd.*	*EI*	*−0.16*	*+0.69*	*+0.61*	*I*	---	*2*
	13	*Fn.*	*EI*	*−0.02*	*+0.97*	*+0.83*	*0*	---	*3*
	25	*Fn.*	*WI*	*−0.03*	*+1.23*	*+1.18*	*0*	---	*3*
	28	*Hd.*	*WI*	*−0.15*	*+0.88*	*+0.90*	*0*	---	*3*
1917									
Jan.	1	*Wy.*	*WI*	*−0.08*	*+1.63*	*+1.73*	*0*	---	*3½*
	8	*Fn.*	*EI*	*−0.05*	*+0.80*	*+0.69*	*0*	---	*3*
June	4	Wy.	WI	−0.10		+0.87	II	2.6	2½
	19	Fn.	WII	−0.17		+0.25	I	---	2½
	21	Wy.	WII	−0.05		+0.95	I	3.4	2½
	22	Fn.	WII	−0.03		−0.02	I	2.4	3
	25	Wy.	WII	−0.02		+0.32	II	2.1	2
July	30	*Wy.*	*EII*	*−0.17*	*+0.99*	*+0.94*	*I*	---	*3*
	31	*Fn.*	*EII*	*+0.02*	*+0.21*	*+0.21*	*0*	---	*3*
Aug.	3	*Fn.*	*WII*	*−0.05*	*+0.68*	*+0.70*	*0*	---	*2½*
	21	*Wy.*	*WII*	*−0.17*	*+0.55*	*+0.54*	*0*	---	*3*
Sept.	4	*Fn.*	*EII*	*−0.13*	*+0.44*	*+0.28*	*0*	---	*3½*
	11	*Fn.*	*EII*	*−0.30*	*+0.53*	*+0.33*	*0*	---	*3½*
	13	*Hd.*	*EII*	*−0.26*	*+0.72*	*+0.58*	*0*	---	*3*
	17	*Hd.*	*EII*	*−0.28*	*+0.54*	*+0.42*	*0*	---	*3½*
	20	*Hd.*	*WII*	*−0.18*	*+0.57*	*+0.42*	*0*	---	*3½*
Oct.	2	*Fn.*	*WII*	*−0.13*	*+0.13*	*−0.12*	*0*	---	*3½*
	22	*Hd.*	*EII*	*−0.02*	*−0.06*	*−0.15*	*0*	---	*3½*
Nov.	14	*Wy.*	*WII*	*−0.27*	*+0.97*	*+0.89*	*0*	---	*3½*
	19	*Fn.*	*WII*	*−0.17*	*+0.58*	*+0.50*	*0*	---	*3½*
	26	*Wy.*	*WII*	----	*+0.09*	*−0.10*	*0*	---	*3½*
Dec.	9	*Fn.*	*WII*	*−0.16*	*+2.21*	*+2.06*	*0*	---	*3½*
1918									
Jan.	9	*Fn.*	*EII*	*−0.17*	*+0.01*	*+0.02*	*0*	---	*3*
June	19	Wy.	WII	+0.03		+0.89	II	1.6	2
	24	Wy.	WII	+0.01		+0.32	II	2.1	2½
	27	Wy.	WII	+0.04		+0.38	II	2.1	2½
	28	Hd.	WII	−0.15		+0.53	0	---	2
July	1	Wy.	WII	+0.07		−0.52	II	2.1	3
	2	Hd.	WII	−0.03		+0.17	II	2.6	2½
	9	*Hd.*	*EII*	*−0.08*	*+0.71*	*+0.73*	*0*	---	*2½*
	15	*Wy.*	*EII*	*−0.03*	*+0.43*	*+0.48*	*II*	---	*3*
	16	*Hd.*	*EII*	*−0.08*	*+0.35*	*+0.29*	*I*	---	*2*
Aug.	15	*Fn.*	*WII*	*−0.27*	*−0.05*	*−0.12*	*0*	---	*2½*
Mean			1916.19	−0.087		+0.45			
			1916.30						
Corr				−0.081		−0.35			

β Ursæ Minoris s. p.

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				s	"	"			
1911									
Nov.	22	Hd.	EII	−0.27		−0.53	I	3.4	4
Dec.	1	R.	WII	−0.18		−0.68	II	2.6	2½
	4	Hd.	WII	−0.22		−0.58	I	2.4	4
	19	Hd.	EII	+0.01		−0.15	II	2.3	3
1914									
Oct.	28	An.	EI	----		−1.42	I	---	4½
	30	Hd.	EI	−0.10		−0.94	I	---	4½
	31	An.	EI	----		−0.62	0	---	4½
Nov.	2	Fn.	WI	−0.10		−0.41	I	---	3½
	3	An.	WI	----		−0.53	I	---	4
	9	Hd.	WI	−0.15		+0.20	I	2.9	3½
1916									
May	31	*Fn.*	*EI*	*−0.17*	*+0.77*	*+1.06*	*0*	---	*4*
June	1	*Hd.*	*EI*	*+0.07*	*+1.15*	*+1.06*	*0*	---	*4*
	11	*Wy.*	*EI*	----	*+0.88*	*+1.16*	*0*	---	*4*
	21	*Fn.*	*WI*	*+0.27*	*+1.25*	*+1.43*	*0*	---	*4*
July	5	*Wy.*	*EI*	*−0.18*	*+1.51*	*+1.19*	*0*	---	*3½*
	6	*Fn.*	*EI*	*−0.20*	*+1.28*	*+0.32*	*0*	---	*3½*
	20	*Wy.*	*EI*	*−0.16*	*−0.80*	*−0.55*	*0*	---	*3½*
Sept.	7	Wy.	WI	−0.13		+0.98	I	3.9	4
Dec.	7	Fn.	EI	----		−0.31	I	2.4	3½
	26	Fn.	WI	−0.13		+0.54	0	---	--
	29	Hd.	WI	----		−1.60	I	---	3½
1917									
Jan.	2	Wy.	WI	−0.09		+1.70	I	3.4	3
	8	Wy.	EI	−0.15		+0.70	I	3.4	3½
	19	Hd.	EI	+0.16		+0.79	II	2.6	3
Mar.	15	*Wy.*	*EI*	*−0.02*	*−0.59*	*−0.23*	*0*	---	*4*
	22	*Fn.*	*EI*	----	*+0.05*	*+0.32*	*0*	---	*3½*
June	3	*Wy.*	*WI*	*−0.25*	----	----	*0*	---	*4*
	20	*Wy.*	*WII*	*−0.14*	*+0.47*	*+0.50*	*0*	---	*3½*
	21	*Fn.*	*WII*	*−0.12*	*+0.26*	*+0.35*	*0*	---	*3½*
	24	*Wy.*	*WII*	*−0.16*	*+0.78*	*+0.83*	*0*	---	*4*
	27	*Wy.*	*EII*	----	*+0.17*	*+0.16*	*0*	---	*4*
July	1	*Hd.*	*EII*	----	*+1.29*	*+0.84*	*0*	---	*3½*
	4	*Hd.*	*EII*	----	*+0.71*	*+0.46*	*0*	---	*3½*
	29	*Wy.*	*EII*	*−0.27*	*−0.65*	*−1.11*	*0*	---	*3½*
	30	*Fn.*	*EII*	*−0.06*	*−0.99*	*−1.09*	*0*	---	*3½*
Aug.	5	*Hd.*	*WII*	*−0.16*	*−0.69*	*−0.60*	*0*	---	*3*
	12	*Fn.*	*WII*	*−0.16*	*−0.24*	*−0.24*	*0*	---	*3*
	13	*Hd.*	*WII*	*−0.20*	*+0.32*	*+0.41*	*0*	---	*3*
	17	*Wy.*	*WII*	*−0.12*	*+0.10*	*+0.31*	*I*	---	*3½*
Dec.	6	Fn.	WII	−0.08		−1.38	I	3.4	3
1918									
Jan.	8	Hd.	EII	−0.04		−1.21	I	2.4	3½
	10	Fn.	EII	----		−0.22	0	---	4
	19	Wy.	WII	−0.22		−0.28	I	2.9	3
	21	Fn.	WII	−0.17		−0.57	I	3.9	3
Feb.	8	*Wy.*	*WII*	*+0.04*	*+0.65*	*+0.70*	*I*	---	*3½*
	28	*Wy.*	*EII*	*−0.03*	*−0.05*	*+0.14*	*0*	---	*4½*
Mar.	7	*Fn.*	*EII*	*+0.23*	*−0.76*	*−0.36*	*0*	---	*4*
	8	*Wy.*	*EII*	*−0.10*	*+0.15*	*+0.50*	*0*	---	*4*
	28	*Fn.*	*WII*	*−0.06*	*+0.64*	*+1.03*	*0*	---	*4*
June	23	*Wy.*	*WII*	*−0.19*	*+1.28*	*+1.20*	*0*	---	*4*
	27	*Hd.*	*WII*	*−0.24*	*+1.47*	*+1.37*	*0*	---	*4*
July	1	*Hd.*	*WII*	*−0.03*	*+0.25*	*+0.25*	*0*	---	*4*
	8	*Hd.*	*EII*	*−0.06*	*+1.36*	*+0.84*	*0*	---	*4*
	15	*Hd.*	*EII*	*−0.31*	*+0.73*	*+0.13*	*0*	---	*3½*
	17	*Wy.*	*EII*	*−0.24*	*−0.15*	*−0.42*	*0*	---	*4*
	24	*Fn.*	*EII*	*−0.29*	*−0.38*	*−0.60*	*0*	---	*3*
Aug.	11	*Fn.*	*WII*	*−0.12*	*−0.32*	*−0.24*	*0*	---	*2½*
Mean			1915.58	−0.116		−0.30			
			1915.71						
Corr				−0.081		+0.53			

ξ² Libræ

h m s 14 51 52.927 ° ′ ″ −11 2 48.92

				s	"	"			
1911									
May	20	T.	WII	+0.066		−0.28	0	---	--
	22	Fn.	WII	+0.026		−0.37	0	6.1	--
	23	Hd.	EII	+0.093		+1.11	0	---	--

			s	"			
1911							
May 24	T.	EII	+0.064	+0.02	0	---	--
25	Fn.	EII	+0.080	−0.65	0	6.6	--
1915							
Apr. 7	An.	EI	+0.062	-----	0	5.5	3½
8	Hd.	EI	+0.105	−0.13	0	5.8	3
13	Fn.	WI	+0.110	+0.56	0	5.5	3½
14	An.	WI	+0.071	−0.72	0	---	2½
Mean	1913.12		+0.075	−0.06			
	1912.85						
Corr			−0.081	−0.14			

Piazzi XIV 221

	h	m	s	°	′	″
	14	51	58.278	+14	48	34.43

1913							
Apr. 24	Hd.	EII	+0.030	+0.06	0	6.0	1
25	Fn.	EII	+0.030	+0.25	0	6.0	1½
May 15	Hd.	WII	+0.050	+0.64	0	---	2
19	Hd.	WII	+0.069	+0.52	0	6.5	2
1914							
Apr. 23	Wy.	EI	+0.080	−0.03	0	---	2
27	Wy.	EI	+0.017	+1.09	0	6.0	2
30	Wy.	WI	+0.065	−0.12	0	6.0	2½
May 2	Fn.	WI	+0.066	+0.14	0	6.0	2
Mean	1913.83		+0.051	+0.32			
Corr			−0.081	−0.22			

B. D.+41° 2539

			h	m	s	°	′	″			
1911											
June 2	Hd.	WII	14	52	36.175	+41	29	55.60	0	7.5	--
8	Fn.	WII			36.148			56.29	0	7.4	--
9	Hd.	WII			36.181			55.38	0	7.0	--
15	Fn.	EII			36.217			55.62	0	7.3	2
20	Hd.	EII			36.165			55.89	0	7.0	--
1915											
May 10	Hd.	EI			36.182			55.62	0	7.0	2
19	Fn.	EI			36.211			54.75	0	7.0	2½
June 4	An.	WI			36.205			55.07	0	7.0	2
12	An.	WI			36.266			55.52	0	7.0	2
Mean	1913.20		14	52	36.194	+41	29	55.53			
Corr					−0.081			−0.27			

β Lupi

	h	m	s	°	′	″
	14	52	-----	−42	46	19.57

1911							
May 26	Hd.	EII	-----	+0.9	0	---	--
27	T.	EII	-----	−0.4	I	---	--
June 1	Fn.	WII	-----	+1.7	0	---	--
1912							
Jan. 19	Hd.	WII	-----	+4.4	0	---	--
June 3	Fn.	WII	-----	+0.9	0	---	3
8	R.	EII	-----	+1.0	0	---	--
1913							
Jan. 19	Fn.	EII	-----	+3.2	0	---	4
27	Hd.	EII	-----	−1.7	0	---	5
Feb. 5	Hd.	WII	-----	−2.5	0	---	5
6	Hd.	WII	-----	+3.4	0	---	5
12	Hd.	WII	-----	+1.7	0	---	4
14	R.	WII	-----	+0.2	0	---	--
May 10	R.	EII	-----	+0.6	0	---	--
June 5	Hd.	WII	-----	+3.2	0	---	3½
9	Hd.	WII	-----	+0.5	0	---	5
10	R.	WII	-----	−2.1	0	---	--
1914							
June 2	Fn.	EI	-----	+0.4	0	---	4
5	Fn.	EI	-----	+0.7	0	---	5
6	Wy.	EI	-----	+2.4	0	---	4½
13	Wy.	EI	-----	+2.3	0	---	4
20	Wy.	WI	-----	−2.4	0	---	4
1915							
Jan. 15	Hd.	WI	-----	−0.7	0	---	3½

			s	"			
1915							
June 9	An.	EI	-----	+0.6	0	---	4
10	Fn.	EI	-----	+0.5	0	---	4
20	An.	EI	-----	+3.1	I	---	4
22	Wy.	EI	-----	+2.8	0	---	4½
Mean	1913.56		-----	+0.95			
Corr			-----	+0.52			

Bradley 1908

			h	m	s	°	′	″			
1911											
June 21	T.	EII	14	52	56.310	+0	11	40.83	0	6.5	--
22	Fn.	EII			56.364			40.15	0	6.3	--
27	Hd.	WII			56.319			41.14	0	6.5	--
28	T.	WII			56.289			41.09	0	---	--
1915											
Apr. 24	An.	WI			56.332			40.93	I	5.4	2½
26	Fn.	EI			56.338			40.42	0	---	2
May 3	Fn.	EI			56.356			40.91	0	6.0	3
15	Wy.	WI			56.313			40.85	0	6.0	3
Mean	1913.41		14	52	56.328	+0	11	40.79			
Corr					−0.081			−0.18			

Weisse$_2$ XIV 1100

			h	m	s	°	′	″			
1912											
May 25	R.	EII	14	53	0.303	+21	55	5.33	0	7.5	2
26	Hd.	EII			0.251			5.24	0	6.5	2
28	Hd.	WII			0.340			4.33	0	6.0	2
30	Fn.	WII			0.313			4.74	0	6.3	2½
1915											
Apr. 17	An.	WI			0.329			4.97	0	6.5	2½
19	Fn.	WI			0.279			4.93	0	7.0	3
May 5	Hd.	EI			0.294			----	0	---	3
8	Hd.	EI			0.336			4.47	0	6.5	2
9	Wy.	EI			0.294			4.14	0	6.5	2½
Mean	1914.03		14	53	0.304	+21	55	4.77			
	1913.86										
Corr					−0.081			−0.23			

Piazzi XIV 223

			h	m	s	°	′	″			
1913											
Feb. 15	R.	WII	14	53	3.173	−17	0	12.00	0	7.5	4½
Mar. 18	R.	WII			3.198			12.17	0	7.0	2
22	R.	WII			3.177			11.91	0	7.5	2
28	Fn.	EII			3.113			11.50	0	6.8	2
29	R.	EII			3.156			11.64	0	7.5	3
1914											
Feb. 26	Hd.	EI			3.185			12.77	0	---	3
27	Fn.	EI			3.200			11.43	0	7.0	2½
Mar. 4	Wy.	WI			3.258			11.82	0	7.5	3
Apr. 9	Fn.	WI			3.186			11.44	0	7.0	2½
10	Wy.	WI			3.184			11.56	0	7.0	3½
Mean	1913.71		14	53	3.183	−17	0	11.82			
Corr					−0.081			−0.10			

Lalande 27282

			h	m	s	°	′	″			
1913											
Apr. 21	Hd.	EII	14	54	0.943	+14	23	51.42	0	6.5	2
29	Fn.	EII			0.983			51.59	0	6.8	3
May 24	R.	WII			0.919			51.92	0	6.5	3
28	R.	WII			0.922			51.65	0	7.0	2
1914											
Mar. 12	Hd.	WI			0.946			51.18	0	---	2
13	Fn.	WI			0.916			51.34	0	7.0	2
20	Fn.	EI			0.918			50.97	0	7.0	2½
22	Wy.	EI			0.915			50.94	0	7.0	2
Mean	1913.78		14	54	0.933	+14	23	51.38			
Corr					−0.081			−0.22			

2 H. Ursæ Minoris

				h	m	s	°	′	″			
1912												
May	13	Fn.	WII	14	56	8.93	+66	17	26.86	0	5.0	1½
	18	Hd.	EII			8.89			26.35	I	4.4	2
	19	R.	EII			8.87			27.14	0	---	1
	21	Hd.	WII			8.84			27.14	I	4.4	2
1915												
May	17	Hd.	EI			8.90			27.23	0	6.0	3½
	19	Fn.	EI			8.82			26.90	0	5.0	2
	27	Wy.	WI			8.93			27.35	0	---	2½
	31	Wy.	WI			8.93			27.00	0	6.5	2½
Mean		1913.88		14	56	8.889	+66	17	27.00			
Corr						−0.081			−0.33			

2 H. Ursæ Minoris s. p.

				h	m	s	°	′	″			
1912												
Dec.	3	R.	WII	14	56	8.98	+66	17	27.87	0	---	3
	9	Fn.	WII			8.84			25.99	0	---	4
	15	Fn.	EII			8.87			25.52	0	---	4
	20	Fn.	EII			8.86			27.45	0	---	4
1913												
Nov.	21	R.	WI			8.91			25.83	0	---	2½
	22	Hd.	WI			9.01			25.62	0	---	4
Dec.	9	R.	EI			8.77			26.14	0	---	4
	13	Hd.	EI			8.79			25.08	0	6.0	3½
Mean		1913.43		14	56	8.879	+66	17	26.19			
Corr						−0.081			+0.70			

δ Libræ

				h	m	s	°	′	″			
				14	56	9.666	−8	9	44.30			
1912												
May	20	Fn.	EII			+0.076			−0.63	0	5.6	2½
	24	Hd.	EII			+0.069			−0.39	I	4.9	3
	31	Hd.	WII			+0.112			−0.99	0	5.5	2
June	1	R.	WII			+0.070			−0.82	0	5.5	2
1915												
June	4	An.	WI			+0.044			+0.09	0	6.0	3
	8	Hd.	EI			+0.070			+0.08	0	---	2
	9	An.	EI			+0.046			+0.15	I	4.9	3
	12	An.	WI			+0.040			+0.84	I	5.4	3
Mean		1913.92				+0.066			−0.21			
Corr						−0.081			−0.15			

Groombridge 2196

				h	m	s	°	′	″			
1913												
Mar.	30	R.	EII	14	56	19.78	+82	52	55.29	0	6.0	2
	31	Fn.	EII			20.03			56.10	0	---	3
Apr.	6	R.	WII			19.74			55.50	0	6.0	2
	7	Fn.	WII			20.16			55.15	0	6.0	2½
1914												
Apr.	23	Wy.	EI			19.97			55.53	0	---	2½
	27	Wy.	EI			19.69			55.12	0	6.0	2
	30	Wy.	WI			20.14			55.65	0	5.2	--
May	2	Fn.	WI			20.20			55.49	0	6.0	2½
Mean		1913.79		14	56	19.964	+82	52	55.48			
Corr						−0.081			−0.38			

Groombridge 2196 s. p.

				h	m	s	°	′	″			
1911												
Oct.	26	Fn.	WII	14	56	19.58	+82	52	54.83	0	5.8	2
Nov.	2	Fn.	EII			19.84			55.12	0	---	--
	3	Hd.	EII			19.48			55.17	0	6.0	--
Dec.	7	Hd.	WII			19.86			54.85	0	6.0	--
1915												
Oct.	22	Hd.	WI			20.24			52.99	0	6.0	3½
	23	Wy.	WI			20.46			53.38	0	6.0	3
	28	Wy.	EI			20.30			53.79	0	6.5	3
	29	Hd.	EI			20.67			52.76	0	6.0	3½
Mean		1913.84		14	56	20.054	+82	52	54.11			
Corr						−0.081			+0.46			

Weisse$_1$ XIV 1014

				h	m	s	°	′	″			
1913												
Apr.	1	R.	EII	14	57	15.674	−7	59	26.04	0	7.5	2½
	2	Fn.	EII			15.633			25.30	0	7.5	3½
	8	R.	WII			15.672			26.02	0	7.5	3½
	16	Hd.	WII			15.664			25.45	0	6.5	3½
1914												
Mar.	24	Fn.	EI			15.668			25.68	0	7.0	3
	26	Hd.	EI			15.623			25.60	0	7.0	2½
Apr.	3	Fn.	WI			15.641			25.34	0	7.0	2½
	6	Fn.	WI			15.679			26.24	0	7.5	3½
Mean		1913.76		14	57	15.657	−7	59	25.71			
Corr						−0.081			−0.15			

β Boötis

				h	m	s	°	′	″			
				14	58	33.340	+40	44	42.28			
						s			″			
1911												
May	20	T.	WII			+0.041			+0.70	0	---	--
	22	Fn.	WII			−0.037			+0.56	I	3.6	--
	23	Hd.	EII			−0.032			−0.05	I	---	--
	24	T.	EII			−0.021			−0.18	0	---	--
	25	Fn.	EII			-----			+0.47	0	---	--
1915												
Apr.	7	An.	EI			+0.028			−0.41	II	3.6	2
	8	Hd.	EI			+0.049			+0.19	I	3.4	2
	13	Fn.	WI			+0.057			+0.52	I	3.9	3
	14	An.	WI			−0.035			+0.19	I	---	2
	23	Wy.	WI			−0.032			----	I	---	2½
May	3	Fn.	EI			+0.010			----	I	3.9	3
	14	Fn.	WI			−0.002			----	0	---	2½
June	10	Fn.	EI			+0.067			----	I	3.4	2½
	22	Wy.	EI			+0.011			----	I	3.9	3
	25	Wy.	EI			+0.012			----	I	3.4	2½
1916												
June	2	Hd.	EI			−0.013			+0.55	I	---	2
	12	Wy.	EI			−0.020			+0.41	I	3.4	2
	17	Wy.	WI			−0.007			+0.29	I	3.4	2
	22	Fn.	WI			+0.035			+0.02	I	3.4	2
	26	Hd.	WI			−0.029			+0.14	I	2.9	2
	29	Hd.	WI			+0.018			−0.50	I	---	2
July	3	Wy.	WI			−0.008			----	I	---	3½
	6	Wy.	EI			−0.006			−0.19	I	3.9	2
	7	Fn.	EI			−0.017			+0.36	I	3.9	2
	11	*Fn.*	*EI*			*−0.023*	*+0.12*		*+0.12*	*I*	---	*2*
	13	*Hd.*	*EI*			*−0.020*	*−0.03*		*−0.03*	*I*	---	*2*
	14	*Fn.*	*EI*			*−0.030*	*+0.25*		*+0.25*	*0*	---	*2*
	20	*Hd.*	*EI*			*−0.007*	*−0.33*		*−0.33*	*I*	---	*2*
	21	*Wy.*	*EI*			*−0.022*	*0.00*		*0.00*	*I*	---	*2½*
	27	*Fn.*	*WI*			*−0.012*	*−0.17*		*−0.17*	*0*	---	*2½*
Aug.	*4*	*Fn.*	*WI*			*−0.013*	----		----	*0*	---	*3*
	7	*Wy.*	*EI*			*+0.030*	*−0.16*		*−0.16*	*0*	---	*3½*
	21	*Wy.*	*EI*			*−0.027*	*−0.47*		*−0.47*	*0*	---	*3*
	24	*Wy.*	*WI*			*+0.022*	*−0.28*		*−0.28*	*0*	---	*3*
Sept.	*5*	*Wy.*	*WI*			*−0.045*	*−1.02*		*−1.02*	*0*	---	*3½*
	19	*Hd.*	*EI*			*−0.058*	*+0.01*		*+0.01*	*0*	---	*3*
	20	*Wy.*	*EI*			*−0.072*	*−0.39*		*−0.39*	*0*	---	*3*
	22	*Hd.*	*EI*			*−0.022*	*+0.20*		*+0.20*	*0*	---	*3*
	26	*Hd.*	*EI*			*+0.001*	*−0.11*		*−0.12*	*0*	---	*3½*
Oct.	*6*	*Wy.*	*WI*			*−0.003*	*−1.35*		*−1.35*	*0*	---	*3½*
	10	*Fn.*	*WI*			*−0.005*	*−0.40*		*−0.41*	*0*	---	*3½*
	12	*Hd.*	*WI*			*+0.027*	*+0.01*		*0.00*	*0*	---	*3½*
Nov.	*26*	*Wy.*	*WI*			*+0.004*	*−0.17*		*−0.18*	*0*	---	*3½*
Dec.	*7*	*Hd.*	*EI*			*−0.026*	*−0.07*		*−0.07*	*0*	---	*3*
	13	*Fn.*	*EI*			*+0.016*	*+0.42*		*+0.41*	*0*	---	*2½*
	25	*Fn.*	*WI*			*+0.007*	*+0.45*		*+0.45*	*0*	---	*3*
1917												
Jan.	*1*	*Wy.*	*WI*			*+0.072*	*+0.76*		*+0.76*	*0*	---	*3½*
	8	*Fn.*	*EI*			*+0.023*	----		----	*0*	---	*3*
June	4	Wy.	WI			+0.011			+0.36	I	3.4	2
	19	Fn.	WII			+0.006			+0.93	0	---	2½
	21	Wy.	WII			−0.018			+0.33	I	3.9	2½
	22	Fn.	WII			+0.004			+0.89	I	3.9	2½
	25	Wy.	WII			+0.022			+1.29	I	3.4	2
July	6	Fn.	EII			−0.021			+0.50	0	---	2
	9	*Fn.*	*EII*			*−0.017*	----		----	*0*	---	*2*

				s	″	″			
1917									
July 30	*Wy.*	*EII*		*+0.012*	*+0.36*	*+0.36*	*0*	---	*3*
31	*Fn.*	*EII*		*−0.047*	*+0.40*	*+0.40*	*0*	---	*2½*
Aug. 3	*Fn.*	*WII*		*+0.013*	*+0.81*	*+0.81*	*0*	---	*2½*
21	*Wy.*	*WII*		*−0.057*	*+0.43*	*+0.43*	*0*	---	*3*
Sept. 4	*Fn.*	*EII*		*−0.065*	*+0.42*	*+0.41*	*0*	---	*3½*
11	*Fn.*	*EII*		*−0.098*	*+0.75*	*+0.74*	*0*	---	*3½*
13	*Hd.*	*EII*		*+0.015*	*+0.01*	*0.00*	*0*	---	*3*
17	*Hd.*	*EII*		*−0.008*	*+0.10*	*+0.10*	*0*	---	*3*
20	*Hd.*	*WII*		*+0.042*	*+0.39*	*+0.38*	*0*	---	*3½*
Oct. 22	*Hd.*	*EII*		*+0.027*	*−0.29*	*−0.29*	*0*	---	*3½*
Nov. 19	*Fn.*	*WII*		*+0.025*	*+0.43*	*+0.43*	*0*	---	*3½*
26	*Wy.*	*WII*		-----	*+0.99*	*+0.98*	*0*	---	*3½*
Dec. 9	*Fn.*	*WII*		*−0.114*	*+1.77*	*+1.76*	*0*	---	*3½*
1918									
Jan. 9	*Fn.*	*EII*		*−0.017*	*−0.22*	*−0.22*	*0*	---	*3*
June 19	Wy.	WII		+0.071		+1.13	I	2.9	2½
24	Wy.	WII		+0.053		+0.22	I	3.4	2½
27	Wy.	WII		+0.040		+0.81	I	2.9	2
28	Hd.	WII		−0.008		+0.83	I	---	2
July 1	Wy.	WII		−0.002		+0.24	I	3.4	3
2	Hd.	WII		+0.011		+1.41	I	2.9	2
9	*Hd.*	*EII*		*−0.031*	*+0.35*	*+0.35*	*I*	---	*2*
15	*Wy.*	*EII*		*+0.018*	*+0.40*	*+0.40*	*I*	---	*2½*
16	*Hd.*	*EII*		*−0.008*	*+0.36*	*+0.36*	*I*	---	*2*
19	*Hd.*	*EII*		*+0.013*	----	----	*0*	---	*3*
Aug. 15	*Fn.*	*WII*		*−0.050*	*+0.44*	*+0.44*	*0*	---	*2*
Mean------	1916.09			+0.007		+0.41			
	1916.05								
Corr------				−0.081		−0.27			

γ Scorpii

	h	m	s	°	′	″
	14	58	47.961	−24	55	43.37

1911									
May 26	Hd.	EII		+0.007		−0.20	I	2.9	--
27	T.	EII		−0.002		−0.95	I	3.4	--
29	Fn.	WII		+0.014		+0.85	I	4.3	--
June 1	Fn	WII		+0.031		−0.86	I	2.9	--
1915									
May 9	Wy.	EI		+0.007		−0.30	I	3.9	3½
10	Hd.	EI		+0.007		+0.15	I	3.9	3
21	Wy.	WI		+0.011		−0.91	I	4.4	3½
June 17	Fn.	WI		+0.002		−0.88	I	3.4	3
Mean------	1913.40			+0.010		−0.39			
Corr------				−0.081		−0.03			

B. D.+72° 664

				h	m	s	°	′	″			
1911												
June 8	Fn.	WII		15	0	19.43	+72	7	1.89	0	7.5	--
9	Hd.	WII				19.36			1.71	0	7.0	--
15	Fn.	EII				19.29			1.02	0	6.5	2
20	Hd.	EII				19.37			1.84	0	7.0	--
1915												
Apr. 17	An.	WI				19.03			1.63	0	7.0	3½
19	Fn.	WI				18.86			2.68	0	7.0	3
24	An.	WI				19.00			2.17	0	---	3
26	Fn.	EI				18.94			2.05	0	7.0	2
May 5	Hd.	EI				19.02			2.41	0	7.0	2½
15	Wy.	WI				19.06			2.16	0	6.5	2½
Mean------	1913.77			15	0	19.136	+72	7	1.96			
Corr------						−0.081			−0.34			

B. D.+72° 664 S. P.

				h	m	s	°	′	″			
1912												
Jan. 10	Hd.	EII		15	0	19.06	+72	6	62.02	0	7.5	5
16	R.	WII				19.28			61.78	0	7.0	5
19	Fn.	WII				19.20			61.61	0	6.6	4
23	Fn.	EII				19.05			60.59	0	7.0	5
1914												
Nov. 23	Fn.	EI				18.94			61.26	0	7.0	2½
Dec. 22	Wy.	WI				18.67			60.76	0	7.0	4

				h	m	s	°	′	″			
1915												
Jan. 2	An.	EI				-----			59.92	0	7.5	3½
4	Hd.	EI				19.09			61.33	0	7.0	3
10	Wy.	WI				18.97			61.89	0	7.5	3½
13	An.	WI				-----			61.31	0	6.5	3
Mean------	1913.51			15	0	19.032	+72	7	1.25			
	1913.81											
Corr------						−0.081			+0.57			

ψ Boötis

	h	m	s	°	′	″
	15	0	35.292	+27	17	53.18

1913									
Feb. 25	R.	EII		+0.023		−0.25	0	---	2
Mar. 18	R.	WII		0.000		−0.46	I	4.4	2
22	R.	WII		+0.016		+0.42	I	4.4	1½
28	Fn.	EII		−0.008		+0.59	I	4.1	1½
1914									
Feb. 27	Fn.	EI		−0.028		−0.55	0	5.0	1½
Mar. 3	Fn.	WI		−0.001		+0.89	0	4.5	3
4	Wy.	WI		+0.013		−0.11	0	5.5	2
7	Wy.	EI		−0.040		−0.39	0	---	3½
20	Fn.	EI		+0.012		+0.01	0	5.0	2
Mean------	1913.75			−0.001		+0.02			
Corr------				−0.081		−0.24			

Radcliffe 1845, 3900

				h	m	s	°	′	″			
1912												
May 24	Hd.	EII		15	1	15.434	−21	40	56.27	0	6.0	3
25	R.	EII				15.394			55.52	0	6.5	3
28	Hd.	WII				15.387			56.73	0	6.5	3
30	Fn.	WII				15.431			55.57	0	---	3½
1915												
May 17	Hd.	EI				15.453			55.84	0	6.5	3½
19	Fn.	EI				15.425			56.20	0	6.0	3
June 4	An.	WI				15.391			56.52	0	7.0	3½
9	An.	EI				15.451			56.86	0	7.0	3½
12	An.	WI				15.381			56.87	0	7.5	3
Mean------	1914.08			15	1	15.416	−21	40	56.26			
Corr------						−0.081			−0.06			

Weisse$_1$ XIV 1099

				h	m	s	°	′	″			
1913												
Mar. 29	R.	EII		15	1	37.917	−12	33	31.01	0	8.5	2½
Apr. 1	R.	EII				37.939			31.63	0	8.5	3½
19	R.	WII				37.992			31.88	0	8.0	2½
20	R.	WII				37.986			31.80	0	8.0	2½
21	Hd.	EII				37.968			30.59	0	7.5	3
1914												
Apr. 9	Fn.	WI				37.990			30.64	0	7.5	3
10	Wy.	WI				37.935			30.69	0	8.0	3
13	Fn.	EI				37.982			31.34	0	7.5	3
21	Hd.	EI				37.948			30.60	0	---	3
Mean------	1913.72			15	1	37.962	−12	33	31.13			
Corr------						−0.081			−0.12			

Bradley 1925

				h	m	s	°	′	″			
1913												
Apr. 25	Fn.	EII		15	2	26.981	+48	29	54.74	0	5.8	1½
30	R.	EII				26.989			53.99	0	6.0	3
May 15	Hd.	WII				26.970			54.58	0	---	2
19	Hd.	WII				26.968			54.69	0	---	2
1914												
May 2	Fn.	WI				26.962			54.20	0	5.5	2½
6	Fn.	WI				27.033			54.37	0	6.0	2
22	Wy.	EI				26.968			54.01	0	6.0	3
25	Fn.	EI				26.932			54.62	0	6.0	2½
Mean------	1913.86			15	2	26.975	+48	29	54.40			
Corr------						−0.081			−0.29			

Weisse$_1$ XIV 1141

				h	m	s	°	′	″			
1912												
May	18	Hd.	EII	15	3	12.382	+5	50	39.68	0	6.0	2
	20	Fn.	EII			12.381			39.24	0	6.6	2½
	21	Hd.	WII			12.380			39.80	0	6.5	2
	31	Hd.	WII			12.383			39.77	0	6.0	2
1915												
May	8	Hd.	EI			12.365			39.65	0	6.5	2
	9	Wy.	EI			12.384			39.49	0	6.0	2½
	15	Wy.	WI			12.386			39.28	0	6.5	2½
	21	Wy.	WI			12.376			38.77	0	---	3
Mean			1913.88	15	3	12.380	+5	50	39.46			
Corr						−0.081			−0.19			

Weisse$_2$ XIV 1310

				h	m	s	°	′	″			
1913												
Apr.	22	Fn.	EII	15	3	12.785	+18	47	21.26	0	6.3	2
	24	Hd.	EII			12.805			20.42	0	6.0	1
May	20	Fn.	WII			12.765			20.46	0	6.4	2
	28	R.	WII			12.797			20.17	0	---	--
1914												
Mar.	26	Hd.	EI			12.774			20.65	0	6.0	2½
Apr.	3	Fn.	WI			12.772			20.46	0	6.0	2
	6	Fn.	WI			12.881			20.50	0	6.5	2½
	17	Wy.	EI			12.858			20.94	0	6.0	3
Mean			1913.81	15	3	12.805	+18	47	20.61			
Corr						−0.081			−0.23			

c Boötis

				h	m	s	°	′	″			
				15	3	20.935	+25	13	8.38			
1913												
May	3	R.	EII			+0.013			+0.36	0	---	2
	5	Hd.	EII			+0.055			+0.07	0	---	3½
	29	Hd.	WII			−0.001			−0.46	0	---	2
June	2	Hd.	WII			+0.021			+1.02	I	4.4	2
	6	Fn.	WII			−0.003			0.00	0	5.4	2½
1914												
Apr.	27	Wy.	EI			+0.013			+0.08	0	5.0	2
	30	Wy.	WI			−0.003			+0.86	0	6.0	2½
May	11	Hd.	WI			+0.015			+0.60	0	6.0	3
	26	Wy.	EI			+0.023			+0.64	I	5.4	2½
Mean			1913.82			+0.015			+0.35			
Corr						−0.081			−0.24			

Bradley 1926

				h	m	s	°	′	″			
1911												
May	20	T.	WII	15	4	30.620	+26	38	44.84	0	---	3½
	22	Fn.	WII			30.632			44.44	0	6.1	--
	23	Hd.	EII			30.655			44.65	0	---	--
	24	T.	EII			30.669			-----	0	---	--
	25	Fn.	EII			30.675			45.04	0	---	--
1915												
Apr.	7	An.	EI			30.707			44.72	I	5.4	2½
	8	Hd.	EI			30.729			44.32	0	6.0	3
	13	Fn.	WI			30.685			43.76	0	6.0	3
	14	An.	WI			30.649			45.09	0	---	2
Mean			1913.12 1913.33	15	4	30.669	+26	38	44.61			
Corr						−0.081			−0.24			

Lalande 27628

				h	m	s	°	′	″			
1913												
May	1	Hd.	EII	15	4	40.742	+34	3	1.24	0	6.5	3
	2	Fn.	EII			40.792			1.40	0	6.8	2
	31	R.	WII			40.728			1.12	0	6.0	3
June	4	R.	WII			40.777			0.81	0	7.0	2½
1914												
Mar.	12	Hd.	WI			40.748			1.24	0	---	3
	13	Fn.	WI			40.716			0.23	0	7.0	2
	22	Wy.	EI			40.722			1.38	0	6.5	2
	24	Fn.	EI			40.743			0.94	0	6.5	2½
Mean			1913.79	15	4	40.746	+34	3	1.04			
Corr						−0.081			−0.26			

Weisse$_1$ XV 10

				h	m	s	°	′	″			
1911												
May	26	Hd.	EII	15	4	51.053	−5	3	1.36	0	6.5	--
	27	T.	EII			50.985			1.46	0	---	--
	29	Fn.	WII			51.012			2.12	0	7.4	--
June	1	Fn.	WII			51.064			1.21	0	7.3	--
1915												
Apr.	17	An.	WI			50.997			1.44	0	7.0	3
	24	An.	WI			51.001			1.88	0	6.0	3
	26	Fn.	EI			50.964			2.06	0	7.0	3
May	3	Fn.	EI			50.944			1.23	0	7.5	3½
Mean			1913.36	15	4	51.002	−5	3	1.60			
Corr						−0.081			−0.16			

Lacaille 6253

				h	m	s	°	′	″			
1913												
May	8	Hd.	EII	15	4	59.103	−25	59	24.56	0	6.0	3
	10	R.	EII			59.067			24.55	0	7.0	2
June	2	Hd.	WII			59.116			24.21	0	6.0	2½
	5	Hd.	WII			59.110			24.42	0	6.5	2
1914												
May	18	Fn.	WI			59.061			24.41	0	6.0	3½
	19	Wy.	WI			59.067			24.95	0	---	3½
	20	Hd.	WI			59.047			24.50	0	7.0	3
June	2	Fn.	EI			59.125			24.70	0	7.0	3½
	5	Fn.	EI			59.126			24.58	0	7.0	3
Mean			1913.95	15	4	59.091	−25	59	24.54			
Corr						−0.081			−0.03			

Groombridge 2194

				h	m	s	°	′	″			
1913												
Apr.	21	Hd.	EII	15	5	28.215	+50	23	56.47	0	6.5	2
	22	Fn.	EII			28.264			56.36	0	6.5	2
May	19	Hd.	WII			28.158			56.58	0	---	2
	24	R.	WII			28.102			56.06	0	6.0	3
	28	R.	WII			28.121			56.02	0	6.0	2
1914												
Apr.	10	Wy.	WI			28.184			56.46	0	6.5	2½
	21	Hd.	EI			28.152			56.44	0	6.5	2
	23	Wy.	EI			28.200			56.18	0	7.0	2½
May	2	Fn.	WI			28.184			56.72	0	6.0	2½
Mean			1913.78	15	5	28.176	+50	23	56.37			
Corr						−0.081			−0.29			

Groombridge 2283

				h	m	s	°	′	″				
				15	5	58.58	+87	34	47.53				
						s			″				
1911													
June	21	T.	EII			+0.21			+0.56	0	7.5	--	
	22	Fn.	EII			+0.35			+0.49	0	---	--	
	23	Hd.	EII			−0.75			−0.33	0	---	--	
	27	Hd.	WII			−0.77			+0.11	0	7.0	--	
	28	T.	WII			−0.71			+0.34	0	---	--	
1912													
Feb.	7	Hd.	EII			----			−0.63	0	---	2	R.
	7	Hd.	EII			+0.19			+0.27	0	7.0	2	
	9	Fn.	EII			−1.29			−0.24	0	---	3	
	12	R.	EII			----			+0.21	0	7.0	3	
1913													
Jan.	25	R.	EII			----			−0.63	0	---	2½	R.
	25	R.	EII			[−1.08][1]			−0.68	0	7.5	2½	
	27	Hd.	EII			----			+0.65	0	---	3	R.
	27	Hd.	EII			−0.28			−0.03	0	7.5	3	

[1] Observed by making settings with micrometer.

				s	″	″				
1913										
Jan.	29	R.	WII	----		−0. 26	0	---	1½	R.
	29	R.	WII	[−0. 90][1]		+0. 32	0	7. 0	1½	
Feb.	4	R.	WII	[−1. 40][1]		−0. 20	0	7. 0	1½	
	5	Hd.	WII	−0. 29		−0. 19	0	7. 5	3	
	6	Hd.	WII	−0. 40		−0. 43	0	7. 0	3	
	9	Fn.	WII	−0. 24		----	0	---	2½	
	12	Hd.	WII	−0. 18		+0. 53	0	7. 0	3	
	14	R.	WII	----		−0. 06	0	---	2½	R.
	14	R.	WII	−0. 92		+0. 13	0	7. 0	2½	
	15	R.	WII	----		+0. 37	0	---	2½	R.
	15	R.	WII	[−1. 45][1]		−0. 02	0	---	2½	
1914										
Jan.	28	Fn.	WI	−0. 80		−0. 45	0	---	3½	
	29	Wy.	WI	----		−0. 18	0	---	3½	
	31	Fn.	WI	----		−0. 17	0	---	3½	R.
	31	Fn.	WI	−1. 05		−0. 24	0	---	3½	
Feb.	7	Wy.	EI	+0. 47		+0. 80	0	7. 0	3	
	16	Hd.	WI	+0. 10		−0. 26	0	7. 0	3	
	21	Wy.	WI	+0. 34		−0. 63	0	7. 5	3½	
	26	Hd.	EI	−0. 95		+1. 01	0	7. 5	3	
1915										
Jan.	*15*	*Hd.*	*WI*	*−1. 17*	*+0. 02*	*+0. 05*	*0*	---	*2½*	
	19	*Hd.*	*EI*	*+0. 57*	*−0. 09*	*−0. 21*	*0*	---	*2½*	
	20	*Wy.*	*EI*	*+0. 03*	*−0. 52*	*−0. 58*	*0*	---	*3½*	
	25	An.	EI	----		+0. 21	0	7. 5	3	
	28	Wy.	EI	−1. 07		−0. 35	0	7. 5	3	
	29	Fn.	EI	−0. 69		−0. 37	0	7. 5	3	
1916										
Jan.	23	Fn.	EI	−0. 27		+0. 07	0	7. 0	2½	
Feb.	3	Fn.	EI	−0. 47		+0. 87	0	7. 0	3	
	7	Fn.	EI	−0. 63		+0. 50	0	7. 0	2½	
	15	Hd.	WI	−0. 43		+0. 27	0	6. 5	3	
Mar.	10	Fn.	WI	−0. 45		−0. 41	0	7. 0	3	
June	1	Fn.	EI	−0. 24		−0. 11	0	---	3	
	17	Wy.	WI	+0. 42		−0. 31	0	7. 0	2½	
	22	Fn.	WI	−0. 79		----	0	7. 0	3	
1917										
Jan.	*18*	*Hd.*	*EI*	*−0. 21*	*−0. 48*	*−0. 47*	*0*	---	*3*	
Mean------		1913. 97		−0. 40		+0. 04				
		1913. 80								
Corr----------				−0. 08		−0. 40				

Groombridge 2283 S. P.

h	m	s	°	′	″
15	5	58. 58	+87	34	47. 54

				s	″	″				
1912										
Feb.	8	Hd.	EII	----		−1. 27	0	---	2	R.
	8	Hd.	EII	−0. 03		−0. 46	0	7. 0	2	
	9	Fn.	EII	----		−0. 37	0	---	--	R.
	9	Fn.	EII	−1. 35		−0. 83	0	---	--	
1913										
Jan.	25	R.	EII	----		−0. 97	0	---	2	R.
	25	R.	EII	[−0. 03][1]		−0. 88	0	7. 0	1½	
	26	Hd.	EII	----		−1. 15	0	---	3	R.
	26	Hd.	EII	[−0. 45][1]		−0. 35	0	7. 0	3	
	28	Fn.	EII	−0. 99		−1. 09	0	7. 5	3½	
	30	Hd.	WII	----		−1. 15	0	---	3	R.
	30	Hd.	WII	−0. 59		−0. 81	0	7. 5	3	
Feb.	1	R.	WII	[−1. 62][1]		−0. 43	0	---	3	
	2	R.	WII	----		−1. 33	0	---	2	R.
	2	R.	WII	[−0. 36][1]		−0. 96	0	7. 0	2	
	4	Fn.	WII	----		−1. 55	0	---	3½	R.
	4	Fn.	WII	−2. 07		−1. 36	0	---	3½	
	5	Hd.	WII	----		−0. 64	0	---	2	R.
	5	Hd.	WII	−1. 15		−0. 43	0	7. 0	1½	
	6	Hd.	WII	−1. 10		+0. 39	0	7. 0	3	
	7	R.	WII	[−0. 70][1]		−1. 44	0	7. 0	2	
	8	R.	WII	----		−1. 26	0	---	3½	R.
	8	R.	WII	[−0. 55][1]		−1. 03	0	---	3½	
	10	Hd.	WII	−0. 82		+0. 03	0	7. 5	2	
	12	*Hd.*	*WII*	*−1. 08*	*−0. 65*	*−0. 59*	*0*	---	*3*	
	13	*Hd.*	*WII*	*−0. 40*	*−0. 92*	*−0. 83*	*0*	---	*3*	

				s	″	″				
1914										
Jan.	27	Fn.	WI	−0. 90		−0. 47	0	7. 5	3½	
	29	R.	WI	−1. 01		−0. 25	0	---	5	
	31	Wy.	WI	----		−1. 61	0	---	5	
Feb.	2	Fn.	WI	----		−1. 55	0	---	3½	R.
	2	Fn.	WI	−0. 23		−1. 21	0	7. 0	3½	
	3	Wy.	EI	----		−1. 22	0	---	3	
	4	Hd.	EI	----		−0. 18	0	7. 5	3	
	7	Hd.	EI	−1. 07		−0. 12	0	7. 5	3½	
	9	Fn.	EI	----		−1. 75	0	---	2½	R.
	9	Fn.	EI	−1. 75		−0. 75	0	---	2½	
	11	*Hd.*	*EI*	*−0. 07*	*−0. 03*	*0. 00*	*0*	---	*2½*	
	14	*Hd.*	*WI*	*−0. 17*	*−1. 21*	*−1. 21*	*0*	---	*3*	
1915										
Jan.	14	Hd.	WI	−0. 08		−1. 63	0	7. 5	3	
	21	Wy.	EI	−1. 20		−0. 68	0	7. 5	3½	
	28	Fn.	EI	−1. 54		−0. 96	0	7. 5	3	
	29	Wy.	EI	+0. 22		−1. 25	0	7. 5	3	
1916										
Jan.	23	Fn.	EI	----		−1. 91	0	---	3	R.
	23	Fn.	EI	−0. 26		−1. 06	0	7. 0	3	
	31	Fn.	EI	−2. 64		−1. 89	0	7. 5	3½	
Feb.	3	Hd.	EI	+0. 01		−1. 16	0	7. 0	3	
	5	Fn.	EI	−1. 23		−1. 51	0	---	3	
	10	*Fn.*	*WI*	*−0. 52*	*−2. 15*	*−2. 15*	*0*	---	*3*	
	11	*Hd.*	*WI*	*−0. 34*	*−0. 74*	*−0. 77*	*0*	---	*2*	
1917										
Jan.	19	Hd.	EI	−0. 08		−1. 71	0	6. 5	2	
Mean------		1914. 31		−0. 90		−0. 88				
		1914. 05								
Corr----------				−0. 08		+0. 42				

Groombridge 2197

				h	m	s	°	′	″			
1913												
Mar.	18	R.	WII	15	6	7. 53	+63	27	37. 27	0	7. 0	2
	22	R.	WII			7. 53			37. 77	0	7. 0	1½
	28	Fn.	EII			7. 58			37. 83	0	6. 3	1½
	29	R.	EII			7. 57			37. 77	0	7. 5	2
1914												
Feb.	27	Fn.	EI			7. 57			37. 84	0	7. 0	2
Mar.	3	Fn.	WI			7. 58			38. 68	0	7. 0	3
	4	Wy.	WI			7. 63			37. 81	0	7. 5	2½
	20	Fn.	EI			7. 69			37. 29	0	7. 0	2
Mean------		1913. 70		15	6	7. 585	+63	27	37. 78			
Corr----------						−0. 081			−0. 33			

ι Libræ

h	m	s	°	′	″
15	7	5. 285	−19	27	6. 36

				s	″	″				
1911										
June	2	Hd.	WII	+0. 019		+0. 76	0	---	3	
	8	Fn.	WII	+0. 040		+0. 30	0	5. 5	--	
	9	Hd.	WII	+0. 056		+1. 22	1	4. 9	--	
	15	Fn.	EII	+0. 072		−0. 36	1	4. 6	--	
	20	Hd.	EII	+0. 057		+0. 24	0	---	--	
1915										
May	10	Hd.	EI	+0. 081		+0. 58	0	6. 0	3	
	17	Hd.	EI	+0. 005		+1. 17	0	6. 0	3½	
	31	Wy.	WI	+0. 023		+0. 59	0	---	3	
June	4	An.	WI	−0. 003		+0. 34	0	6. 5	3½	
Mean------		1913. 20		+0. 039		+0. 54				
Corr----------				−0. 081		−0. 09				

B. D. +39° 2847

				h	m	s	°	′	″			
1916												
June	2	Hd.	EI	15	9	-----	+39	0	7. 05	0	---	3
	17	Wy.	WI			-----			6. 81	0	7. 0	2
	22	Fn.	WI			-----			6. 86	0	7. 5	2
July	6	Wy.	EI			-----			6. 17	0	7. 0	2½
	7	Fn.	EI			-----			6. 40	0	7. 5	2½
Mean------		1916. 48		15	9	-----	+39	0	6. 66			
Corr----------						-----			−0. 27			

[1] Observed by making settings with micrometer.

3 Serpentis

h m s ° ′ ″
15 10 42.842 +5 16 22.80

1911								
May 27	T.	EII	+0.031	−0.29	0	5.0	--	
29	Fn.	WII	+0.027	+0.26	0	5.7	--	
June 1	Fn.	WII	+0.004	+0.59	0	---	--	
11	R.	EII	+0.044	+0.20	0	---	--	
1915								
June 8	Hd.	EI	−0.006	+0.26	0	---	2	
9	An.	EI	+0.073	+0.76	I	4.9	3	
17	Fn.	WI	+0.013	+0.24	0	5.5	2½	
18	Hd.	WI	+0.023	−0.42	0	6.0	2½	
Mean	1913.43		+0.026	+0.20				
Corr			−0.081	−0.19				

Groombridge 2205

h m s ° ′ ″
15 10 47.370 +43 22 55.05

1912								
May 13	Fn.	WII			0	---	1½	
18	Hd.	EII	47.273	53.89	0	6.5	2	
19	R.	EII	47.317	54.15	0	---	1	
21	Hd.	WII	47.281	53.69	0	7.0	2	
1915								
Apr. 7	An.	EI	47.302	53.42	0	6.0	2	
8	Hd.	EI	47.311	53.83	0	7.0	2½	
13	Fn.	WI	47.308	54.29	0	7.0	3	
14	An.	WI	47.242	53.48	0	7.0	2	
17	An.	WI	47.251	54.62	0	7.0	2	
19	Fn.	WI	47.302	54.77	0	7.0	3	
Mean	1914.12		15 10 47.296	+43 22 54.12				
Corr			−0.081	−0.28				

δ Boötis

h m s ° ′ ″
15 11 52.508 +33 38 59.87

1913								
Mar. 28	Fn.	EII	+0.023	[+3.67][1]	I	2.9	1½	
30	R.	EII	−0.038	0.00	0	---	2	
Apr. 17	R.	WII	−0.053	−0.11	I	3.4	2½	
19	R.	WII	−0.043	+0.40	I	3.4	2	
1914								
Apr. 9	Fn.	WI	−0.049	+0.18	I	3.4	2	
10	Wy.	WI	−0.024	+0.54	I	3.4	2½	
21	Hd.	EI	−0.032	+0.84	I	3.4	2	
23	Wy.	EI	+0.006	−0.26	0	---	3	
1915								
June 4	An.	WI	+0.015	----	II	---	2	
29	Hd.	EI	−0.024	----	I	---	2	
1916								
July 3	Wy.	WI	+0.040	----	I	---	3	
11	Fn.	EI	−0.059	----	0	3.5	2	
1917								
July 6	Fn.	EII	−0.035	----	I	3.9	2	
9	Fn.	EII	−0.015	----	0	---	2	
1918								
July 19	*Hd.*	*EII*	*+0.003*	----	*0*	---	*3*	
Mean	1914.94		−0.021	+0.23				
	1913.85							
Corr			−0.081	−0.26				

β Libræ

h m s ° ′ ″
15 12 9.691 −9 3 4.94

1911								
June 8	Fn.	WII	+0.009	+0.75	0	---	--	
9	Hd.	WII	+0.053	+0.21	I	2.4	--	
15	Fn.	EII	+0.026	−0.29	I	1.9	2	
16	Hd.	EII	+0.044	+0.07	0	---	--	
20	Hd.	EII	+0.039	−0.05	I	2.9	--	
21	T.	EII	+0.034	−0.31	--	---	--	
23	Hd.	EII	+0.055	−0.36	I	2.9	--	

[1] Micrometer readings doubtful.

			s	″	″			
1911								
June 27	Hd.	WII	+0.006		----	D	---	--
28	T.	WII	+0.022		−0.78	I	2.9	--
29	Fn.	WII	+0.059		+0.01	I	2.4	--
30	Hd.	WII	+0.020		+0.11	I	2.7	--
July 1	R.	WII	−0.023		+0.02	0	---	--
3	Fn.	EII	+0.041		−0.75	I	2.4	--
5	R.	EII	+0.036		−1.00	I	1.4	--
1912								
Jan. 8	*Fn.*	*EII*	*−0.024*	----	----	*0*	---	--
9	*Fn.*	*EII*	*−0.024*	----	----	*0*	---	--
19	*Hd.*	*WII*	-----	*+0.60*	*+0.65*	*I*	---	*2*
22	*R.*	*EII*	*+0.025*	*−0.34*	*−0.24*	*0*	---	*4*
Apr. 27	R.	EII	+0.056		----	I	2.9	3
May 24	Hd.	EII	+0.063		−0.37	I	2.4	2½
June 8	R.	EII	+0.037		−0.13	I	2.9	3
Dec. 22	*Fn.*	*WII*	-----	*+0.41*	*+0.36*	*0*	---	*3*
25	*R.*	*WII*	-----	*−0.06*	*+0.22*	*0*	---	*2½*
27	*Hd.*	*WII*	*−0.018*	*+0.30*	*+0.40*	*0*	---	*4*
30	*Hd.*	*WII*	-----	*+0.13*	*+0.28*	*0*	---	*2½*
1913								
Jan. 1	*R.*	*WII*	-----	*+0.14*	*+0.11*	*0*	---	*3*
3	*Hd.*	*WII*	*+0.016*	*−0.12*	*−0.09*	*0*	---	*3*
8	*R.*	*WII*	*+0.038*	----	----	*0*	---	*2½*
Feb. 25	R.	EII	+0.021		+0.98	0	---	3
Mar. 18	R.	WII	+0.048		−0.28	II	2.6	2½
22	R.	WII	+0.003		----	I	---	2
29	R.	EII	−0.003		----	I	3.4	2
Apr. 29	Fn.	EII	−0.022		----	I	2.5	3½
30	R.	EII	+0.098		−0.33	I	---	5
May 1	Hd.	EII	+0.015		----	I	2.9	3½
3	R.	EII	+0.028		+0.33	I	2.9	2½
5	Hd.	EII	+0.026		----	I	---	3
6	Fn.	EII	+0.017		----	I	---	2½
8	Hd.	EII	+0.053		----	I	2.7	2
10	R.	EII	−0.009		+0.60	I	2.9	2½
20	Fn.	WII	+0.044		−0.19	I	2.4	2½
24	R.	WII	+0.016		----	I	2.9	3½
29	Hd.	WII	+0.050		----	0	---	2½
31	R.	WII	+0.048		----	I	2.9	3½
June 2	Hd.	WII	+0.047		----	I	2.9	2
4	R.	WII	+0.022		----	I	2.9	3½
5	Hd.	WII	+0.040		+0.71	II	3.1	3
6	Fn.	WII	+0.039		−1.10	I	2.9	3
9	Hd.	WII	+0.052		−0.41	II	3.1	3
11	Fn.	EII	+0.042		−0.19	I	2.9	3
12	Hd.	EII	+0.038		−0.38	I	2.9	2½
19	Hd.	EII	+0.027		−0.13	I	---	2
Dec. 11	*R.*	*EI*	*+0.055*	*−0.72*	*−0.54*	*0*	---	--
12	*Hd.*	*EI*	*+0.005*	*+0.62*	*+0.57*	*0*	---	*3½*
17	*Fn.*	*WI*	*+0.055*	*−0.37*	*−0.32*	*0*	---	*2½*
19	*Hd.*	*WI*	*+0.018*	*−0.65*	*−0.47*	*0*	---	*3*
21	*Fn.*	*WI*	*+0.063*	*−0.03*	*+0.02*	*0*	---	*3*
23	*Hd.*	*WI*	-----	*−0.22*	*−0.22*	*0*	---	*3*
26	*Wy.*	*WI*	*−0.042*	*−0.25*	*−0.15*	*0*	---	*3*
1914								
Feb. 26	Hd.	EI	+0.074		−0.72	I	2.9	3½
27	Fn.	EI	+0.007		----	I	3.4	2
Mar. 3	Fn.	WI	−0.001		−0.30	I	2.9	3½
4	Wy.	WI	+0.058		−1.09	I	3.4	2½
7	Wy.	EI	+0.043		+0.05	I	3.4	3½
13	Fn.	WI	+0.122		−0.59	I	2.9	3
Apr. 1	Wy.	WI	+0.019		−1.33	I	3.4	3½
27	Wy.	EI	+0.073		----	I	2.9	2
30	Wy.	WI	−0.042		+0.38	I	3.4	3
May 2	Fn.	WI	+0.068		----	I	2.4	3
6	Fn.	WI	+0.007		----	I	3.4	2½
9	Fn.	WI	0.000		----	I	2.9	3½
11	Hd.	WI	+0.005		----	I	2.9	2½
16	Fn.	WI	+0.056		----	I	2.9	2½
18	Fn.	WI	−0.002		----	I	2.9	3
19	Wy.	WI	+0.036		----	I	3.4	3
21	Fn.	WI	+0.027		−0.50	I	2.9	3
22	Wy.	EI	+0.031		----	I	3.4	3
25	Fn.	EI	+0.031		−0.30	I	3.4	3½
26	Wy.	EI	+0.032		----	I	2.9	3
28	Fn.	EI	+0.034		----	I	3.4	3
June 2	Fn.	EI	+0.037		−0.35	I	2.9	2½

				s	"	"			
1914									
June	5	Fn.	EI	+0.070		----	I	---	2½
	6	Wy.	EI	+0.023		----	I	2.9	2
	9	Wy.	EI	+0.041		+0.47	0	---	3½
	11	Fn.	EI	+0.037		−0.76	I	2.9	2½
	13	Wy.	EI	+0.045		+0.58	I	3.4	3
	15	Fn.	EI	+0.033		----	I	2.9	2½
	16	Hd.	EI	+0.016		+0.27	I	2.9	--
	17	Wy.	EI	+0.079		+1.16	I	2.9	3
	20	Wy.	WI	+0.013		−0.34	I	3.4	3
	23	Hd.	WI	+0.032		+0.63	I	---	2½
	24	Wy.	WI	+0.031		−0.44	I	2.9	2½
	30	Hd.	WI	+0.039		+0.07	I	2.9	3½
Oct.	*10*	*An.*	*WI*	*+0.074*	----	----	*0*	---	*3½*
Dec.	*17*	*Hd.*	*WI*	*+0.076*	*−0.23*	*−0.02*	*0*	---	*3*
1915									
Jan.	*4*	*Wy.*	*EI*	*−0.010*	*−0.67*	*−0.72*	*0*	---	*3½*
	7	*Wy.*	*EI*	*−0.008*	*−0.67*	*−0.77*	*0*	---	*3½*
	8	*An.*	*EI*	*−0.060*	*+0.19*	*+0.18*	*0*	---	*2½*
	20	*Wy.*	*EI*	*+0.043*	*0.00*	*+0.07*	*I*	---	*3½*
	25	An.	EI	−0.010		+0.07	II	3.6	3
Apr.	26	Fn.	EI	+0.041		−0.11	I	3.4	2½
May	3	Fn.	EI	+0.049		----	0	---	3
	10	Hd.	EI	+0.065		−0.09	I	3.4	3
	17	Hd.	EI	−0.007		----	I	3.4	2½
	21	Wy.	WI	+0.020		−0.36	I	---	3
	27	Wy.	WI	+0.010		----	I	3.4	3
	31	Wy.	WI	−0.003		−0.44	I	3.9	2½
June	19	Wy.	WI	0.000		+0.08	I	3.9	3½
	20	An.	EI	+0.036		−0.09	II	3.6	2½
	22	Wy.	EI	+0.031		+0.39	I	3.4	3½
	24	Fn.	EI	+0.049		−0.35	I	2.9	2½
	25	Wy.	EI	+0.024		+0.17	II	3.1	3
	27	Hd.	EI	+0.023		+0.50	II	3.1	2½
July	5	Hd.	WI	+0.016		+0.03	I	2.9	2½
	6	Fn.	WI	+0.013		−0.12	I	3.4	2½
Dec.	*14*	*Fn.*	*WI*	*+0.160*	*−0.25*	*−0.08*	*0*	---	*3½*
	20	*Fn.*	*WI*	*+0.031*	*−0.71*	*−0.61*	*0*	---	*3½*
	22	*Wy.*	*WI*	*+0.042*	*−0.81*	*−0.61*	*0*	---	*3½*
1916									
Jan.	*3*	*Fn.*	*EI*	*+0.042*	*−0.04*	*−0.14*	*0*	---	*3*
June	1	Fn.	EI	+0.033		+0.24	0	---	2½
	12	Wy.	EI	+0.040		+0.66	I	2.9	2½
	26	Hd.	WI	+0.027		+0.36	I	2.9	2
	29	Hd.	WI	+0.046		−0.23	I	---	2
July	*13*	*Hd.*	*EI*	*+0.040*	*+0.01*	*+0.06*	*I*	---	*2*
	14	*Fn.*	*EI*	*+0.024*	*−0.58*	*−0.50*	*I*	---	*3*
	20	*Hd.*	*EI*	*+0.030*	*−0.14*	*−0.16*	*I*	---	*2*
	21	*Wy.*	*EI*	*+0.036*	*+0.19*	*+0.14*	*I*	---	*3*
Aug.	*1*	*Fn.*	*WI*	*+0.034*	*+0.07*	*+0.13*	*0*	---	*3½*
	7	*Wy.*	*EI*	*+0.015*	*−0.27*	*−0.20*	*0*	---	*3½*
	21	*Wy.*	*EI*	*−0.011*	*−0.09*	*−0.04*	*0*	---	*3½*
	24	*Wy.*	*WI*	*+0.035*	*−1.00*	*−0.87*	*0*	---	*3½*
Sept.	*5*	*Wy.*	*WI*	*−0.012*	*−0.95*	*−0.88*	*0*	---	*3½*
	20	*Wy.*	*EI*	*+0.046*	*+0.24*	*+0.28*	*0*	---	*3½*
	22	*Hd.*	*EI*	*+0.075*	*−0.64*	*−0.59*	*0*	---	*3*
	26	*Hd.*	*EI*	*+0.025*	*+0.36*	*+0.67*	*0*	---	*3*
Oct.	*6*	*Wy.*	*WI*	*+0.157*	*−0.79*	*−0.73*	*0*	---	*3½*
	12	*Hd.*	*WI*	*+0.117*	*−0.96*	*−0.76*	*0*	---	*3*
Dec.	*25*	*Fn.*	*WI*	*+0.029*	*−0.30*	*−0.22*	*0*	---	*3½*
1917									
Jan.	*17*	*Fn.*	*EI*	*+0.061*	*−0.19*	*−0.34*	*0*	---	*4*
	18	*Hd.*	*EI*	*+0.013*	*−0.41*	*−0.43*	*I*	---	*3*
June	4	Wy.	WI	+0.039		−0.40	I	3.9	2½
	21	Wy.	WII	+0.020		−0.02	I	3.4	2½
	25	Wy.	WII	−0.035		+0.31	I	3.4	2½
	26	Hd.	WII	+0.054		+0.31	I	---	2½
July	*31*	*Fn.*	*EII*	*+0.044*	*+0.21*	*+0.21*	*0*	---	*2*
Aug.	*3*	*Fn.*	*WII*	*+0.001*	*+0.94*	*+0.93*	*0*	---	*2½*
	6	*Hd.*	*WII*	*+0.064*	*+0.06*	*+0.10*	*0*	---	*2*
	10	*Wy.*	*WII*	*−0.048*	*+0.52*	*+0.56*	*0*	---	*3½*
Sept.	*4*	*Fn.*	*EII*	*+0.013*	*+1.15*	*+1.33*	*0*	---	*3½*
	11	*Fn.*	*EII*	*+0.047*	*+0.34*	*+0.55*	*0*	---	*3½*
	13	*Hd.*	*EII*	*+0.064*	*−0.42*	*−0.24*	*0*	---	*3*
	17	*Hd.*	*EII*	*+0.051*	*−0.72*	*−0.57*	*0*	---	*3½*
	20	*Hd.*	*WII*	*+0.045*	*−0.11*	*+0.07*	*0*	---	*3½*

				s	"	"			
1918									
June	19	Wy.	WII	+0.046		−0.54	I	3.4	2
	24	Wy.	WII	+0.011		−0.11	I	2.9	3
	27	Wy.	WII	+0.001		+0.08	I	2.9	2½
	28	Hd.	WII	+0.027		+0.01	I	---	2
July	1	Wy.	WII	+0.002		+0.13	I	3.4	3
	2	Hd.	WII	+0.004		−0.10	I	2.9	2½
	9	Hd.	EII	+0.067		+0.40	I	---	2
	15	*Wy.*	*EII*	*+0.018*	*+0.63*	*+0.54*	*I*	---	*3*
	16	*Hd.*	*EII*	*+0.008*	*+0.09*	*+0.17*	*I*	---	*2½*
Aug.	*15*	*Fn.*	*WII*	*−0.033*	*−0.21*	*−0.13*	*0*	---	*2½*
Mean			1914.33	+0.030		−0.08			
			1914.50						
Corr				−0.081		−0.15			

B. D.+37° 2625

				h	m	s	°	′	″			
1912												
May	20	Fn.	EII	15	12	55.272	+37	23	59.51	0	---	2½
	25	R.	EII			55.313			59.82	0	7.0	2½
	31	Hd.	WII			55.360			59.76	0	7.0	2
June	3	Fn.	WII			55.367			58.91	0	7.2	1½
1915												
June	4	An.	WI			55.326			60.51	0	---	2
	9	An.	EI			55.264			59.96	0	7.0	2½
	10	Fn.	EI			55.314			59.95	0	7.0	2
	12	An.	WI			55.298			59.28	0	7.5	2
Mean			1913.92	15	12	55.314	+37	23	59.71			
Corr						−0.081			−0.26			

B. D.+69° 789

				h	m	s	°	′	″			
1913												
Apr.	24	Hd.	EII	15	14	11.37	+69	16	36.97	0	6.5	1
	25	Fn.	EII			11.48			36.72	0	6.8	1½
May	24	R.	WII			11.31			36.81	0	6.5	3
	28	R.	WII			11.32			36.60	0	6.0	2
1914												
May	18	Fn.	WI			11.45			36.90	0	6.5	2½
	19	Wy.	WI			11.43			37.06	0	7.0	3
	22	Wy.	EI			11.32			36.39	0	6.5	2½
	26	Wy.	EI			11.38			35.68	0	6.5	3
Mean			1913.87	15	14	11.382	+69	16	36.64			
Corr						−0.081			−0.34			

Piazzi XV 36

				h	m	s	°	′	″			
1913												
Apr.	29	Fn.	EII	15	14	22.420	+20	54	5.12	0	6.0	3
	30	R.	EII			22.408			5.21	0	---	4
May	1	Hd.	EII			22.388			4.82	0	6.0	3
	31	R.	WII			22.353			4.95	0	6.0	3½
June	2	Hd.	WII			22.410			5.33	0	6.0	2
1914												
May	11	Hd.	WI			22.442			5.23	0	---	2
	16	Fn.	WI			22.397			4.09	0	6.0	2
	28	Fn.	EI			22.354			4.45	0	6.0	2½
June	2	Fn.	EI			22.389			3.97	0	6.0	2
Mean			1913.82	15	14	22.396	+20	54	4.80			
Corr						−0.081			−0.23			

Weisse$_1$ XV 201[1]

				h	m	s	°	′	″			
1912												
May	27	Fn.	EII	15	14	22.863	+10	45	19.10	0	6.7	2
	28	Hd.	WII			22.900			19.56	0	7.0	2
	30	Fn.	WII			22.891			20.76	0	---	3
June	5	R.	EII			22.881			19.34	0	---	2
1915												
May	17	Hd.	EI			22.850			19.94	0	7.0	3
	25	Fn.	WI			22.820			19.69	0	---	3
	27	Wy.	WI			22.860			19.99	0	7.5	3
June	8	Hd.	EI			22.840			20.10	0	---	2
Mean			1913.91	15	14	22.863	+10	45	19.81			
Corr						−0.081			−0.21			

[1] Double; n. pr. component observed.

Bradley 1937

				h	m	s	°	′	″			
1913												
May 3	R.	EII		15	14	43.127	+2	6	17.18	0	5.0	2½
5	Hd.	EII				43.122			17.76	0	---	3
29	Hd.	WII				43.158			17.84	0	---	3
June 4	R.	WII				43.171			17.34	0	5.5	3½
1914												
May 2	Fn.	WI				43.167			17.33	0	5.0	2½
6	Fn.	WI				43.174			17.21	0	5.5	2½
June 5	Fn.	EI				43.189			17.21	0	5.5	2
6	Wy.	EI				43.153			17.18	I	---	2
Mean	1913.88			15	14	43.158	+2	6	17.38			
Corr						−0.081			−0.18			

Bradley 1939

				h	m	s	°	′				
1912												
May 20	Fn.	EII		15	15	59.410	−15	13	-----	0	6.7	3½
24	Hd.	EII				59.420			27.82	0	6.0	3
31	Hd.	WII				59.388			28.07	0	6.2	2
June 1	R.	WII				59.391			27.93	0	6.0	2
1915												
Apr. 24	An.	WI				59.383			27.52	0	6.0	3
May 9	Wy.	EI				59.389			27.26	0	6.5	3
10	Hd.	EI				59.399			27.30	0	6.5	3
31	Wy.	WI				59.351			27.25	0	7.0	2½
Mean	1913.88			15	15	59.391	−15	13	27.59			
	1914.10											
Corr						−0.081			−0.11			

Weisse$_1$ XV 226

				h	m	s	°	′	″			
1913												
Apr. 1	R.	EII		15	16	22.298	−6	17	20.64	0	8.5	3½
17	R	WII				22.342			21.30	0	7.5	3
19	R.	WII				22.304			20.28	0	8.0	2½
21	Hd.	EII				22.322			20.61	0	7.2	3
24	Hd.	EII				22.275			19.09	0	7.2	1
1914												
Apr. 10	Wy.	WI				22.256			20.10	0	7.5	3
21	Hd.	EI				22.278			19.83	0	7.0	2
27	Wy.	EI				22.223			19.95	0	7.5	2
30	Wy.	WI				22.259			20.33	0	7.5	3
Mean	1913.74			15	16	22.284	−6	17	20.24			
Corr						−0.081			−0.16			

Bradley 1940

				h	m	s	°	′	″			
1912												
May 13	Fn.	WII		15	16	27.023	+1	2	31.32	0	6.3	1½
18	Hd.	EII				27.050			31.56	0	5.8	3
19	R.	EII				27.104			31.52	0	---	3
21	Hd.	WII				27.015			31.43	0	5.8	2
1915												
Apr. 17	An.	WI				27.065			31.30	0	6.5	3½
19	Fn.	WI				27.048			30.49	0	6.5	3
May 3	Fn.	EI				27.062			31.36	0	---	3
8	Hd.	EI				27.046			30.90	0	6.0	3
Mean	1913.85			15	16	27.052	+1	2	31.24			
Corr						−0.081			−0.18			

Lacaille 6355

				h	m	s	°	′	″			
1913												
Mar. 11	R.	EII		15	17	34.275	−26	22	0.84	0	7.0	2½
18	R.	WII				34.309			2.34	0	6.5	2½
22	R.	WII				34.271			2.32	0	---	2
28	Fn.	EII				34.310			2.11	0	7.0	2
1914												
Feb. 26	Hd.	EI				34.336			3.17	0	---	3½
27	Fn.	EI				34.228			2.11	0	7.0	3
1914												
Mar. 13	Fn.	WI				34.333			2.80	D	7.5	3½
26	Hd.	EI				34.308			2.70	0	7.0	3
Apr. 3	Fn.	WI				34.301			3.58	D	7.0	3
Mean	1913.76			15	17	34.297	−26	22	2.44			
Corr						−0.081			−0.02			

Piazzi XV 54

				h	m	s	°	′	″			
1911												
June 8	Fn.	WII		15	18	55.864	−12	2	56.01	0	---	--
9	Hd.	WII				55.787			55.64	0	6.5	--
18	R.	EII				55.964			56.59	0	---	--
20	Hd.	EII				55.843			56.25	0	6.0	--
1915												
Apr. 7	An.	EI				55.848			55.77	0	6.0	3½
8	Hd.	EI				55.819			56.31	0	6.0	3
13	Fn.	WI				55.834			56.09	0	6.5	3½
14	An.	WI				55.804			56.76	0	6.0	3
Mean	1913.36			15	18	55.845	−12	2	56.18			
Corr						−0.081			−0.13			

Bradley 1945

				h	m	s	°	′	″			
1911												
July 3	Fn.	EII		15	19	5.246	−0	42	7.42	0	6.4	--
5	R.	EII				5.203			7.85	0	6.0	1
10	Fn.	WII				5.308			7.07	0	6.2	1½
14	Hd.	WII				5.250			7.34	0	6.5	2½
1915												
May 19	Fn.	EI				5.288			7.21	0	6.0	2
21	Wy.	WI				5.300			6.91	D	6.5	3
27	Wy.	WI				5.301			7.09	0	6.5	3
June 4	An.	WI				5.277			7.01	0	---	3
9	An.	EI				5.252			7.31	0	6.5	3
Mean	1913.68			15	19	5.269	−0	42	7.25			
Corr						−0.081			−0.18			

η Coronæ Borealis [1]

				h	m	s	°	′	″			
1915												
June 10	Fn.	EI		15	19	29.267	+30	36	-----	0	5.5	2
17	Fn.	WI				29.252			-----	0	---	2
25	Wy.	EI				29.266			-----	0	6.5	2½
29	Hd.	EI				29.260			-----	0	---	2
July 6	Fn.	WI				29.304			-----	0	6.0	2
1916												
June 12	Wy.	EI				29.272			-----	0	5.5	2½
17	Wy.	WI				29.304			-----	I	4.4	2
July 11	Fn.	EI				29.261			-----	0	5.0	2
13	Hd.	EI				29.237			-----	0	6.0	2
17	*Hd.*	*EI*				*29.257*	-----		-----	*0*	---	*2*
20	*Hd.*	*EI*				*29.208*	-----		-----	*0*	---	*2*
1917												
June 4	Wy.	WI				29.271			-----	0	6.0	2
July 6	Fn.	EII				29.263			-----	D	5.0	2
9	Fn.	EII				29.236			-----	0	5.5	2
Sept. 27	*Hd.*	*EII*				*29.224*	-----		-----	*0*	---	*2*
1918												
June 19	Wy.	WII				29.320			-----	0	6.0	3½
27	Wy.	WII				29.304			-----	D	5.5	2
July 1	Wy.	WII				29.266			-----	D	6.0	2½
Mean	1916.75			15	19	29.272	+30	36	-----			
Corr						−0.081			-----			

γ Ursæ Minoris

				h	m	s	°	′	″			
				15	20	51.871	+72	9	15.24			
1911												
June 21	T.	EII				−0.07			+0.51	I	2.4	2½
22	Fn.	EII				−0.12			+0.18	I	3.6	--
27	Hd.	WII				−0.14			----	0	---	--
29	Fn.	WII				−0.22			+0.16	I	2.4	--

[1] Double; mean observed.

			s	″			
1911							
July 15	R.	WII	−0.16	+0.84	I	---	1
1915							
May 9	Wy.	EI	−0.10	+0.93	I	3.4	2½
17	Hd.	EI	−0.25	+0.43	I	3.4	2½
25	Fn.	WI	−0.10	+1.60	0	---	3
31	Wy.	WI	−0.08	+1.26	I	---	2½
Mean	1913.22		−0.138	+0.74			
	1913.44						
Corr			−0.081	−0.34			

γ Ursæ Minoris s. p.

h	m	s	°	′	″
15	20	51.869	+72	9	15.24

1911							
Dec. 5	Hd.	WII	−0.18	−0.03	I	1.9	4
6	Hd.	WII	−0.10	−0.35	I	2.9	2
27	R.	EII	−0.37	----	0	---	4
1912							
Jan. 9	R.	EII	−0.26	−0.58	0	---	5
10	Hd.	EII	−0.19	−1.01	I	2.9	5
1915							
Oct. 27	Fn.	WI	−0.22	+0.15	0	---	3
28	Wy.	EI	−0.25	−0.66	0	---	4
Nov. 3	Wy.	EI	−0.29	−0.34	I	---	3
5	Fn.	EI	−0.17	−0.36	I	3.4	3
9	Wy.	WI	−0.06	−1.04	I	3.9	3
Mean	1914.12		−0.209	−0.47			
	1913.91						
Corr			−0.081	+0.57			

μ Boötis *pr.*

h	m	s	°	′	″
15	21	5.364	+37	41	32.84

1911							
June 23	Hd.	EII	−0.074	−0.07	I	3.9	--
26	Fn.	EII	+0.026	+0.30	I	4.4	--
30	Hd.	WII	−0.017	−0.14	I	4.4	--
July 1	R.	WII	+0.008	+0.09	I	---	--
1915							
May 14	Fn.	WI	+0.022	----	0	---	2
June 8	Hd.	EI	−0.002	+0.41	0	---	2
10	Fn.	EI	+0.007	+0.06	I	4.4	2
12	An.	WI	−0.022	+0.20	I	4.9	3
17	Fn.	WI	−0.015	+0.28	0	5.0	2
25	Wy.	EI	+0.037	----	I	4.4	2½
29	Hd.	EI	+0.027	----	I	---	2
July 6	Fn.	WI	+0.005	----	I	4.4	2
9	Fn.	WI	−0.005	----	0	---	2½
1916							
June 17	Wy.	WI	+0.016	----	I	3.9	2
July 3	Wy.	WI	+0.061	----	0	---	3½
11	Fn.	EI	−0.002	----	0	4.5	2
13	Hd.	EI	−0.022	----	I	4.4	2
17	*Hd.*	*EI*	*+0.007*	----	*0*	---	*2*
20	*Hd.*	*EI*	*−0.015*	----	*I*	---	*2*
1917							
June 4	Wy.	WI	+0.017	----	I	4.4	2
July 9	Fn.	EII	+0.020	----	0	5.0	2
27	*Hd.*	*EII*	*−0.040*	----	*0*	---	*2*
Aug. 6	*Hd.*	*WII*	*+0.015*	----	*0*	---	*2*
1918							
June 19	Wy.	WII	+0.025	----	0	5.0	3
27	Wy.	WII	+0.033	----	I	4.4	2
July 1	Wy.	WII	+0.003	----	I	4.4	2½
16	*Hd.*	*EII*	*−0.007*	----	*I*	---	*2*
19	*Hd.*	*EII*	*−0.024*	----	*0*	---	*3*
Mean	1915.52		+0.007	+0.14			
	1913.47						
Corr			−0.081	−0.27			

τ[1] Serpentis

h	m	s	°	′	″
15	21	36.855	+15	44	38.19

1913							
Apr. 19	R.	WII	+0.051	−0.80	I	4.9	2
21	Hd.	EII	+0.076	+0.08	0	5.5	3
22	Fn.	EII	+0.049	+0.42	0	5.7	1½
May 24	R.	WII	+0.009	+0.44	0	5.0	3½
July 7	Hd.	WII	+0.049	+0.58	0	5.5	3
1914							
Apr. 6	Fn.	WI	+0.077	+0.01	0	6.0	2½
9	Fn.	WI	+0.023	+0.51	0	5.5	2
21	Hd.	EI	+0.065	+0.87	0	5.5	2½
23	Wy.	EI	+0.078	+0.05	0	6.0	2
Mean	1913.77		+0.053	+0.24			
Corr			−0.081	−0.22			

ι Draconis

h	m	s	°	′	″
15	22	55.668	+59	16	51.73

1912							
Feb. 15	R.	EII	-----	+0.52	I	3.9	3
16	Fn.	EII	-----	+1.03	I	---	2½
23	Fn.	WII	-----	+0.63	I	2.8	2
27	Fn.	WII	-----	+1.48	I	2.7	2
May 13	Fn.	WII	−0.088	+0.56	I	3.0	1½
18	Hd.	EII	−0.179	+0.31	I	2.9	2
19	R.	EII	−0.164	+0.64	0	---	3
21	Hd.	WII	−0.154	+0.19	I	3.4	2
1915							
Apr. 17	An.	WI	−0.126	−0.70	II	3.6	2½
19	Fn.	WI	−0.106	+0.91	I	3.9	3
26	Fn.	EI	−0.171	+0.05	I	3.9	2
May 8	Hd.	EI	−0.155	+0.51	I	---	2
1916							
June 1	Fn.	EI	−0.149	----	0	---	2
17	Wy.	WI	−0.039	+0.45	II	3.6	2½
22	Fn.	WI	−0.190	+0.51	I	3.9	2
29	Hd.	WI	−0.173	+0.11	I	3.4	2
July 3	Wy.	WI	−0.034	+0.36	I	3.9	3
13	Hd.	EI	−0.126	+0.01	I	3.4	2
14	Fn.	EI	−0.202	+0.25	I	4.4	2½
20	*Hd.*	*EI*	*−0.136*	*+0.16*	*+0.17*	*I*	*2*
21	*Wy.*	*EI*	*−0.161*	*+0.52*	*+0.53*	*I*	*2½*
27	*Fn.*	*WI*	*−0.162*	*+0.69*	*+0.67*	*0*	*3½*
Aug. 1	*Fn.*	*WI*	*−0.078*	*+0.88*	*+0.86*	*0*	*2½*
4	*Fn.*	*WI*	*−0.133*	*+0.59*	*+0.59*	*0*	*3*
7	*Wy.*	*EI*	*−0.160*	*−0.46*	*−0.49*	*0*	*3*
21	*Wy.*	*EI*	*−0.197*	*−0.04*	*−0.06*	*0*	*3½*
24	*Wy.*	*WI*	*−0.102*	*+0.46*	*+0.44*	*0*	*3½*
Sept. 5	*Wy.*	*WI*	*−0.182*	*+0.38*	*+0.36*	*0*	*4*
11	*Hd.*	*WI*	*−0.195*	*+0.77*	*+0.70*	*0*	*3*
19	*Hd.*	*EI*	*−0.250*	*+0.13*	*+0.08*	*0*	*3*
20	*Wy.*	*EI*	*−0.235*	*−0.05*	*−0.08*	*0*	*3½*
22	*Hd.*	*EI*	*−0.218*	*+0.07*	*+0.06*	*0*	*2½*
26	*Hd.*	*EI*	*−0.190*	*+0.42*	*+0.33*	*0*	*3½*
Oct. 6	*Wy.*	*WI*	*−0.213*	*+0.10*	*+0.07*	*0*	*3½*
12	*Hd.*	*WI*	*−0.197*	*+0.66*	*+0.61*	*0*	*3*
24	*Hd.*	*WI*	*−0.208*	*+0.99*	*+0.86*	*0*	*3½*
Nov. 23	*Fn.*	*WI*	*−0.137*	*+0.59*	*+0.56*	*0*	*3½*
26	*Wy.*	*WI*	*−0.155*	*+0.90*	*+0.83*	*0*	*3½*
Dec. 7	*Hd.*	*EI*	*−0.131*	*+0.08*	*+0.01*	*0*	*3*
13	*Fn.*	*EI*	*−0.082*	*+0.22*	*+0.12*	*0*	*3½*
25	*Fn.*	*WI*	*−0.065*	*+1.21*	*+1.18*	*0*	*3*
28	*Hd.*	*WI*	*−0.089*	*+0.67*	*+0.64*	*0*	*2*
1917							
Jan. 1	*Wy.*	*WI*	*−0.049*	*+0.83*	*+0.78*	*0*	*3½*
17	*Fn.*	*EI*	*−0.190*	*+0.59*	*+0.63*	*0*	*3½*
June 25	Wy.	WII	−0.084		−0.10	I	3.9	2
July 6	Fn.	EII	−0.155		+1.22	I	3.9	2
31	*Fn.*	*EII*	*−0.155*	*+0.86*	*+0.85*	*0*	*2*
Aug. 3	*Fn.*	*WII*	*−0.207*	*+1.44*	*+1.44*	*0*	*3*
6	*Hd.*	*WII*	*−0.174*	*+1.02*	*+1.00*	*0*	*2*
10	*Wy.*	*WII*	*−0.125*	*+0.66*	*+0.65*	*0*	*3*
Sept. 4	*Fn.*	*EII*	*−0.208*	*+1.27*	*+1.21*	*0*	*3*
11	*Fn.*	*EII*	*−0.237*	*+0.46*	*+0.41*	*0*	*3½*

				s	″	″			
1917									
Sept.	*13*	*Hd.*	*EII*	*−0.213*	*+0.51*	*+0.45*	*0*	---	*3*
	17	*Hd.*	*EII*	*−0.242*	*+0.47*	*+0.42*	*0*	---	*3*
	20	*Hd.*	*WII*	*−0.158*	*+0.74*	*+0.68*	*0*	---	*3½*
Oct.	*22*	*Hd.*	*EII*	*−0.122*	*+0.74*	*+0.66*	*0*	---	*3½*
Nov.	*19*	*Fn.*	*WII*	*−0.287*	----	----	*0*	---	*3½*
	26	*Wy.*	*WII*	-----	*+0.52*	*+0.43*	*0*	---	*3½*
Dec.	*9*	*Fn.*	*WII*	*−0.155*	*+1.26*	*+1.16*	*0*	---	*3½*
	23	*Fn.*	*EII*	*−0.080*	*−0.72*	*−0.77*	*0*	---	*3½*
1918									
June	24	Wy.	WII	−0.069		+0.04	I	3.4	2½
	28	Hd.	WII	−0.150		+0.84	I	3.4	2
July	2	Hd.	WII	−0.131		+0.40	I	2.9	2
	9	Hd.	EII	−0.118		+0.07	0	---	2
	15	Wy.	EII	−0.090		+0.04	I	2.9	2½
	16	*Hd.*	*EII*	*−0.147*	*+0.49*	*+0.46*	*I*	---	*2*
Aug.	*15*	*Fn.*	*WII*	*−0.152*	*+0.57*	*+0.55*	*0*	---	*2*
Mean		1916.08		−0.130		+0.41			
		1915.43							
Corr				−0.081		−0.32			

ι Draconis s. p.

	h	m	s	°	′	″
	15	22	-----	+59	16	51.72

1912									
Nov.	14	R.	EII	-----		+1.8	0	---	--
Dec.	3	R.	WII	-----		−1.6	0	---	--
	9	Fn.	WII	-----		+0.3	0	---	5
	28	Hd.	WII	-----		−0.3	0	---	4
1913									
Jan.	4	Hd.	WII	-----		−1.3	0	---	5
	9	R.	WII	-----		0.0	0	---	3½
	14	R.	WII	-----		−0.1	0	---	2½
	19	Hd.	EII	-----		+1.6	0	---	3½
	21	Hd.	EII	-----		[+6.9]	0	---	4
	25	R.	EII	-----		−2.3	0	---	2
Feb.	2	R.	WII	-----		−1.3	0	---	--
	4	Fn.	WII	-----		+2.7	0	---	4½
	5	Hd.	WII	-----		−0.4	0	---	4
	6	Hd.	WII	-----		−0.7	0	---	5
	7	R.	WII	-----		+0.4	0	---	--
	8	R.	WII	-----		−1.8	0	---	--
	10	Hd.	WII	-----		+0.2	0	---	4
	13	Hd.	WII	-----		0.0	0	---	4
	14	R.	WII	-----		−0.5	0	---	--
1914									
Jan.	26	R.	WI	-----		+0.9	0	---	--
Feb.	11	Hd.	EI	-----		−0.4	0	---	4
1915									
Jan.	5	Wy.	EI	-----		−1.2	0	---	5
	7	Hd.	EI	-----		−4.0	0	---	5
	9	An.	EI	-----		−0.3	0	---	3½
	10	Wy.	WI	-----		−1.9	0	---	3½
	13	An.	WI	-----		+2.8	0	---	--
	14	Hd.	WI	-----		−1.8	0	---	5
1916									
Jan.	4	Fn.	EI	-----		−2.0	0	---	4½
	8	Hd.	EI	-----		−1.8	0	---	4
	14	Wy.	EI	-----		[−5.6]	0	---	5
1917									
Jan.	19	Hd.	EI	-----		−0.2	0	---	4
1918									
Jan.	8	Hd.	EII	-----		+0.2	0	---	4
	10	Fn.	EII	-----		−0.1	0	---	5
	21	Fn.	WII	-----		−0.9	0	---	4
Mean		1914.26		-----		−0.44			
Corr				-----		+1.08			

32 Libræ

	h	m	s	°	′	″
	15	23	10.706	−16	24	11.95

1913									
Mar.	11	R.	EII	+0.016		+0.46	0	6.0	2½
	18	R.	WII	+0.026		+0.55	0	5.5	2
	22	R.	WII	−0.003		−0.47	0	---	2
	31	Fn.	EII	+0.040		+0.22	0	5.7	3½

				s	″			
1914								
Mar.	13	Fn.	WI	+0.085	−0.26	0	6.0	3
	26	Hd.	EI	+0.050	−0.10	0	6.0	3
Apr.	3	Fn.	WI	+0.010	−0.04	0	5.5	3
	27	Wy.	EI	+0.046	+0.62	0	5.7	2½
Mean		1913.74		+0.034	+0.12			
Corr				−0.081	−0.11			

Piazzi XV 83

				h	m	s	°	′	″			
1913												
Apr.	1	R.	EII	15	23	46.612	+25	24	51.54	0	6.0	2½
	7	Fn.	WII			46.560			51.25	0	6.0	2
	17	R.	WII			46.569			50.86	0	6.0	3
	24	Hd.	EII			46.585			52.09	0	6.0	1
1914												
Feb.	26	Hd.	EI			46.571			51.63	0	6.0	3
	27	Fn.	EI			46.594			51.65	0	6.0	2
Mar.	3	Fn.	WI			46.593			51.46	0	6.0	3
	4	Wy.	WI			46.582			52.07	0	7.0	2½
Mean		1913.72		15	23	46.583	+25	24	51.57			
Corr						−0.081			−0.24			

β Coronæ Borealis

	h	m	s	°	′	″
	15	24	7.038	+29	24	56.02

1911									
July	5	R.	EII	−0.035		−0.33	I	3.9	1
	6	Fn.	EII	−0.046		+0.23	0	---	3½
	10	Fn.	WII	−0.051		+0.11	0	---	1½
	12	R.	WII	+0.009		+0.38	0	---	4
1915									
Apr.	24	An.	WI	−0.003		+0.49	I	4.4	2
May	3	Fn.	EI	−0.024		----	0	---	--
	10	Hd.	EI	−0.006		−0.16	I	3.9	3
	15	Wy.	WI	-----		+0.22	I	3.4	2½
	19	Fn.	EI	−0.057		−0.10	I	3.9	2
	27	Wy.	WI	−0.048		+0.28	I	3.9	2½
June	4	An.	WI	−0.028		----	I	---	2
	10	Fn.	EI	−0.001		----	I	3.9	2½
	17	Fn.	WI	+0.003		----	I	3.4	2
	25	Wy.	EI	+0.014		----	I	---	2½
	29	Hd.	EI	+0.002		----	I	---	2
July	6	Fn.	WI	−0.029		----	I	3.9	2
	9	Fn.	WI	−0.028		----	0	---	2½
1916									
July	17	Hd.	EI	−0.019		----	0	---	2
1917									
July	9	Fn.	EII	+0.023		----	0	---	2
	27	Hd.	EII	−0.069		----	0	---	2
1918									
July	1	Wy.	WII	−0.040		----	I	3.4	2½
	19	Hd.	EII	+0.005		----	I	---	3
Mean		1915.23		−0.020		+0.12			
		1913.65							
Corr				−0.081		−0.25			

B. D.+39° 2875

				h	m	s	°	′	″			
1916												
June	1	Fn.	EI	15	25	-----	+39	2	3.03	D	7.5	2
	12	Wy.	EI			-----			2.41	0	---	2½
	22	Fn.	WI			-----			3.01	D	7.0	2
	26	Hd.	WI			-----			3.71	0	6.5	2
Mean		1916.46		15	25	-----	+39	2	3.04			
Corr						-----			−0.27			

Lalande 28212

				h	m	s	°	′	″			
1911												
June	8	Fn.	WII	15	25	24.011	−20	25	8.94	0	7.4	--
	9	Hd.	WII			24.020			8.76	0	6.0	1
	15	Fn.	EII			24.151			10.03	0	---	2
	20	Hd.	EII			24.066			10.31	0	---	4

			h m s	° ′ ″			
1915							
June 4	An.	WI	24.022		9.77	0	... 3
9	An.	EI	24.040		9.66	0	7.0 3½
10	Fn.	EI	24.041		9.03	0	7.0 3
12	An.	WI	23.979		10.35	0	7.5 3
Mean	1913.44		15 25 24.041	−20 25	9.61		
Corr			−0.081		−0.08		

Weisse$_1$ XV 435

			h m s	° ′ ″			
1911							
June 21	T.	EII	15 26 33.211	+8 53	10.28	0	7.5 2½
22	Fn.	EII	33.274		10.55	0	... ..
23	Hd.	EII	33.253		10.48	0	7.0 3
28	T.	WII	33.223		12.16	0	7.0 ..
29	Fn.	WII	33.230		10.75	0	6.3 ..
1915							
June 19	Wy.	WI	33.217		10.51	0	7.0 3
20	An.	EI	33.239		11.20	I	5.4 3
24	Fn.	EI	33.247		10.51	0	7.0 2
July 5	Hd.	WI	33.222		11.28	0	6.5 2½
Mean	1913.26		15 26 33.235	+8 53	10.86		
Corr			−0.081		−0.21		

Groombridge 2240

			h m s	° ′ ″			
1911							
June 26	Fn.	EII	15 26 37.317	+55 30	10.65	0	6.5 ..
30	Hd.	WII	37.330		11.14	0	6.5 ..
July 1	R.	WII	37.353		10.75	0	... ..
3	Fn.	EII	37.355		10.53	0	6.5 ..
1915							
June 8	Hd.	EI	37.333		11.28	0	7.0 2
17	Fn.	WI	37.315		11.34	0	... 2
18	Hd.	WI	37.350		10.94	0	6.5 2½
22	Wy.	EI	37.301		.....	0	6.5 3
25	Wy.	EI	37.360		10.39	0	6.5 2½
Mean	1913.70		15 26 37.335	+55 30	10.88		
	1913.48						
Corr			−0.081		−0.30		

Weisse$_2$ XV 538

			h m s	° ′ ″			
1913							
Apr. 19	R.	WII	15 26 44.298	+31 35	38.49	0	6.0 2
20	R.	WII	44.381		38.23	0	7.0 2
21	Hd.	EII	44.353		37.88	0	6.5 3
25	Fn.	EII	44.362		38.18	0	7.0 1½
1914							
Apr. 10	Wy.	WI	44.302		38.62	0	6.0 2
21	Hd.	EI	44.326		38.61	0	6.5 2
23	Wy.	EI	44.355		38.03	0	... 2½
30	Wy.	WI	44.292		38.11	0	6.0 2
Mean	1913.80		15 26 44.334	+31 35	38.27		
Corr			−0.081		−0.25		

ν^1 Boötis

			h m s	° ′ ″			
			15 27 41.805	+41 8	21.87		
1913							
Apr. 29	Fn.	EII	+0.037		+0.79	0	5.0 3
30	R.	EII	+0.025		+1.12	0	... 4
May 1	Hd.	EII	+0.023		+0.35	0	5.5 2½
24	R.	WII	−0.031		−0.11	I	4.9 3
28	R.	WII	−0.014		−0.04	I	4.9 2½
1914							
Apr. 6	Fn.	WI	+0.075		[−1.39]	0	5.5 2½
9	Fn.	WI	−0.025		+0.86	0	5.0 ..
27	Wy.	EI	−0.038		+0.53	0	5.0 1½
May 22	Wy.	EI	+0.018		+0.68	0	... 3
1915							
May 3	Fn.	EI	+0.009		.....	0	... 3
31	Wy.	WI	+0.029		.....	0	... 2
June 29	Hd.	EI	+0.008		.....	0	... 2
July 6	Fn.	WI	−0.013		.....	0	5.0 2
9	Fn.	WI	−0.020		.....	0	... 2½

			s	″	″		
1916							
June 17	Wy.	WI	+0.004		.....	I	4.4 2
29	Hd.	WI	+0.034		.....	I	4.4 2
July 3	Wy.	WI	+0.036		.....	0	... 3½
6	Wy.	EI	−0.031		.....	0	... 2
11	Fn.	EI	−0.028		.....	0	5.0 2
20	*Hd.*	*EI*	*−0.008*	.....	.....	*I*	... *2*
1917							
July 6	Fn.	EII	−0.003		.....	0	... 2
9	Fn.	EII	+0.001		.....	0	... 2
27	*Hd.*	*EII*	*−0.071*	.....	.....	*0*	... *2*
Aug. 6	*Hd.*	*WII*	*+0.008*	.....	.....	*0*	... *2*
1918							
June 19	Wy.	WII	−0.023		.....	0	5.0 3½
July 1	Wy.	WII	+0.013		.....	0	5.0 2½
19	*Hd.*	*EII*	*−0.026*	.....	.....	*0*	... *3*
Mean	1915.47		+0.004		+0.52		
	1913.72						
Corr			−0.081		−0.27		

ν^2 Boötis

			h m s	° ′ ″			
1915							
May 3	Fn.	EI	15 28 33.648	+41 12	.....	0	... 3
17	Hd.	EI	33.674		.....	0	6.0 3
21	Wy.	WI	33.721		.....	0	5.0 2½
27	Wy.	WI	33.659		.....	0	5.0 2½
31	Wy.	WI	33.643		.....	0	... 2
July 6	Fn.	WI	33.675		.....	0	6.0 2
9	Fn.	WI	33.626		.....	0	... 2½
1916							
June 12	Wy.	EI	33.687		.....	0	5.5 3
17	Wy.	WI	33.697		.....	I	4.4 2
July 3	Wy.	WI	33.723		.....	0	... 3½
6	Wy.	EI	33.682		.....	0	... 2
13	Hd.	EI	33.634		.....	0	... 2
17	Hd.	EI	33.646		.....	0	... 2
1917							
July 12	Fn.	EII	33.625		.....	0	... 2½
1918							
June 19	Wy.	WII	33.660		.....	0	5.0 3½
July 1	Wy.	WII	33.668		.....	0	5.0 2½
Mean	1916.34		15 28 33.667	+41 12	.....		
Corr			−0.081		.....		

γ Lupi *mean*

			h m s	° ′ ″			
			15 29	−40 51 54.09			
1912							
Feb. 15	R.	EII	.....		+0.9	0	... ..
16	Fn.	EII	.....		−2.5	0	... 5
23	Fn.	WII	.....		+0.5	I	... 5
27	Fn.	WII	.....		−3.5	0	... 4
1913							
Feb. 9	Fn.	WII	.....		+0.2	0	... 4
14	R.	WII	.....		+0.8	0	... ..
Apr. 22	Fn.	EII	.....		+0.1	0	... 4
July 1	Fn.	EII	.....		−0.2	0	... 3½
Mean	1912.70		.....		−0.46		
Corr			.....		+0.37		

Bradley 1960

			h m s	° ′ ″			
1913							
Mar. 11	R.	EII	15 29 15.499	−9 45	24.15	I	4.9 2½
18	R.	WII	15.519		24.72	I	4.4 2
22	R.	WII	15.498		24.58	0	5.5 2
29	R.	EII	15.524		25.24	I	4.9 2½
1914							
May 6	Fn.	WI	15.520		24.68	0	5.0 2½
11	Hd.	WI	15.557		25.23	0	... 3
June 11	Fn.	EI	15.522		24.31	0	5.5 2½
13	Wy.	EI	15.570		24.32	I	4.4 2½
Mean	1913.81		15 29 15.526	−9 45	24.65		
Corr			−0.081		−0.14		

γ Libræ

h m s 15 30 29.409 ° ′ ″ −14 29 23.24

1913									
Apr.	7	Fn.	WII	+0.086	−1.75	0	___		3
	17	R.	WII	+0.021	−0.98	I	4	4	3
	24	Hd.	EII	+0.005	−0.33	I	3	9	1
	30	R.	EII	−0.001	−0.75	I	4	9	5
May	1	Hd.	EII	+0.018	−1.17	I	3	9	3
1914									
Apr.	30	Wy.	WI	−0.022	−0.07	I	4	4	3
May	2	Fn.	WI	−0.034	−0.35	0	4	5	3
June	15	Fn.	EI	−0.055	−1.03	I	3	9	3
	16	Hd.	EI	−0.012	−0.25	I	3	4	3
Mean		1913.79		+0.001	−0.74				
Corr				−0.081	−0.12				

α Coronæ Borealis

h m s 15 30 52.656 ° ′ ″ +27 1 0.96

1911				s	″	″			
June	18	R.	EII	+0.004		+0.59	II	___	___
	21	T.	EII	+0.037		+0.49	II	1	6	2½
	22	Fn.	EII	−0.014		−0.23	I	2	4	___
	26	Fn.	EII	−0.019		+0.45	I	2	1	2
	27	Hd.	WII	+0.024		+0.66	0	___	___	
	28	T.	WII	+0.021		+1.07	I	2	9	___
	29	Fn.	WII	−0.042		+0.27	I	2	1	___
	30	Hd.	WII	+0.005		+0.30	I	2	4	___
July	1	R.	WII	−0.056		____	0	___	___	
	3	Fn.	EII	+0.038		____	I	2	2	___
	5	R.	EII	+0.016		____	I	1	9	1
	6	Fn.	EII	+0.002		____	I	2	4	3½
	9	R.	EII	+0.014		____	I	1	9	___
	10	Fn.	WII	+0.032		____	I	2	7	1½
	12	R.	WII	−0.010		____	0	___	4	
	14	Hd.	WII	+0.028		____	I	2	9	2½
	15	R.	WII	+0.060		____	II	___	1	
1912									
Jan.	*1*	*R.*	*EII*	_____	*−0.40*	*−0.40*	*0*	___	___	
	19	*Hd.*	*WII*	_____	*+0.53*	*+0.53*	*I*	*3*	*1*	*2*
	22	*R.*	*EII*	*−0.012*	*−0.61*	*−0.60*	*0*	___	*4*	
	24	*Fn.*	*EII*	_____	*+0.24*	*+0.24*	*0*	___	*2*	
May	13	Fn.	WII	+0.010		−0.14	I	___	2	
	18	Hd.	EII	+0.025		+0.99	I	2	6	2
	19	R.	EII	+0.009		____	II	2	6	1
	20	Fn.	EII	−0.016		+0.98	I	2	0	2½
	21	Hd.	WII	+0.026		____	I	1	9	2
	24	Hd.	EII	−0.005		____	II	2	6	2
	25	R.	EII	−0.014		+0.97	II	2	6	1½
	26	Hd.	EII	+0.021		+0.36	II	2	6	2
	27	Fn.	EII	−0.018		____	II	___		1½
	28	Hd.	WII	+0.052		+0.02	II	2	1	2
	30	Fn.	WII	+0.037		+0.03	II	2	5	2½
	31	Hd.	WII	+0.042		____	II	2	3	2
June	1	R.	WII	+0.039		____	II	2	1	1½
	3	Fn.	WII	+0.021		____	I	2	6	1½
	5	R.	EII	+0.035		+0.37	II	2	6	2
	8	R.	EII	−0.014		____	II	2	6	1½
	10	Hd.–Fn.	EII	_____		−0.75	I	___	___	
	11	Hd.–Fn.	EII	_____		+0.22	I	___	___	R.
	11	Hd.–Fn.	EII	_____		−0.33	I	___	___	
	13	Fn.–Hd.	EII	_____		−1.85	I	___	___	R.
	13	Fn.–Hd.	EII	_____		−0.52	I	___	___	
	20	Fn.–Hd.	EII	_____		−0.84	I	___	___	R.
	20	Fn.–Hd.	EII	_____		+0.44	II	___	___	
July	2	Fn.–Hd.	EII	_____		+0.05	I	___	___	R.
	2	Fn.–Hd.	EII	_____		+0.50	I	___	___	
	3	Hd.–Fn.	WII	_____		−0.09	I	___	___	R.
	3	Hd.–Fn.	WII	_____		+0.67	II	___	___	
	6	Fn.–Hd.	WII	_____		+0.06	I	___	___	R.
	6	Fn.–Hd.	WII	_____		+0.07	I	___	___	
	8	Fn.–Hd.	WII	_____		+0.23	I	___	___	R.
	8	Fn.–Hd.	WII	_____		+0.09	I	___	___	
Nov.	*26*	*Fn.*	*WII*	_____	*−0.26*	*−0.25*	*0*	___	*3½*	

1912				s	″	″			
Nov.	*28*	*Fn.*	*WII*	*−0.003*	*+0.51*	*+0.53*	*0*	___	*3*	
	29	*Hd.*	*WII*	*+0.029*	*−0.76*	*−0.76*	*0*	___	*2*	
Dec.	*2*	*R.*	*WII*	*−0.003*	*+0.10*	*+0.12*	*0*	___	*2*	
	8	*Fn.*	*WII*	*+0.068*	*[+2.47][1]*	*[+2.50][1]*	*0*	___	*3½*	
	9	*R.*	*WII*	_____	*+0.04*	*+0.01*	*0*	___	*5*	
	11	*R.*	*EII*	*+0.052*	____	____	*0*	___	*5*	
	12	*Hd.*	*EII*	*−0.003*	*+0.09*	*+0.14*	*0*	___	*3*	
	13	*R.*	*EII*	*+0.025*	*+0.65*	*+0.73*	*0*	___	*3½*	
	19	*Fn.*	*EII*	*[+0.198]*	*+0.54*	*+0.57*	*0*	___	*4*	
	20	*R.*	*EII*	*−0.013*	*−0.35*	*−0.31*	*0*	___	*5*	
	22	*Fn.*	*WII*	*−0.038*	*+0.38*	*+0.36*	*0*	___	*2½*	
	25	*R.*	*WII*	_____	*+0.15*	*+0.21*	*0*	___	*2½*	
	27	*Hd.*	*WII*	*+0.010*	*+0.20*	*+0.22*	*0*	___	*3½*	
1913									
Jan.	*1*	*R.*	*WII*	_____	*+0.09*	*+0.08*	*I*	___	*3*	
	3	*Hd.*	*WII*	*−0.029*	*+0.47*	*+0.47*	*0*	___	*2*	
	8	*R.*	*WII*	*+0.052*	____	____	*0*	___	*3*	
	14	*Fn.*	*WII*	*+0.004*	*+0.80*	*+0.81*	*0*	___	*2½*	
Mar.	28	Fn.	EII	+0.013		____	I	1	9	1½
Apr.	1	R.	EII	+0.025		____	II	2	6	3
	6	R.	WII	−0.020		____	I	2	4	2
	8	R.	WII	+0.015		+0.55	0	___		2½
	19	R.	WII	+0.010		____	II	2	6	2
	29	Fn.	EII	+0.034		+1.25	I	1	9	3
May	10	R.	EII	+0.056		+0.33	II	2	6	2
June	4	R.	WII	+0.016		____	II	2	6	1½
	6	Fn.	WII	−0.003		−0.33	I	1	9	2
	10	R.	WII	+0.024		+0.28	II	2	1	2
	11	Fn.	EII	+0.020		+0.19	I	2	5	2
	12	Hd.	EII	+0.038		−0.17	II	2	6	2
	13	Fn.	EII	+0.014		+0.37	I	2	3	2½
	17	Fn.	EII	+0.037		+0.28	I	2	4	2
	18	R.	EII	+0.020		+0.19	II	2	1	2
	19	Hd.	EII	+0.004		+0.24	II	___	1	
July	7	Hd.	WII	+0.043		−0.25	II	2	6	2
Nov.	*20*	*R.*	*WI*	*+0.005*	*−0.08*	*−0.03*	*0*	___	___	
	23	*Fn.*	*WI*	*+0.060*	*+0.50*	*+0.53*	*0*	___	*3½*	
	24	*R.*	*EI*	*+0.037*	*−0.03*	*0.00*	*0*	___	___	
Dec.	*4*	*Fn.*	*EI*	*+0.042*	*−0.02*	*0.00*	*0*	___	*3½*	
	8	*R.*	*EI*	*+0.011*	*−0.45*	*−0.40*	*0*	___	___	
	11	*R.*	*EI*	*+0.056*	*−0.80*	*−0.76*	*0*	___	___	
	12	*Hd.*	*EI*	*−0.010*	*+0.25*	*+0.26*	*0*	___	*3*	
	14	*Fn.*	*WI*	*+0.033*	*+0.48*	*+0.53*	*0*	___	*3*	
	16	*Hd.*	*WI*	*+0.052*	____	____	*0*	___	*2*	
	17	*Fn.*	*WI*	*+0.075*	*+0.99*	*+1.00*	*0*	___	*2*	
	18	*R.*	*WI*	*−0.027*	*+1.07*	*+1.11*	*0*	___	___	
	19	*Hd.*	*WI*	*−0.002*	*+0.23*	*+0.27*	*0*	___	___	
	21	*Fn.*	*WI*	*+0.054*	*+0.46*	*+0.46*	*0*	___	*3*	
	23	*Hd.*	*WI*	_____	*+0.14*	*+0.14*	*0*	___	*2*	
	26	*Wy.*	*WI*	*+0.032*	*−0.05*	*−0.03*	*0*	___	*3*	
	28	*Fn.*	*WI*	*−0.028*	*−0.31*	*−0.30*	*0*	___	*2*	
	29	*Wy.*	*WI*	*−0.074*	*−0.04*	*−0.04*	*0*	___	___	
1914									
Jan.	*5*	*Fn.*	*EI*	*0.000*	*+0.58*	*+0.58*	*0*	___	*2½*	
	12	*Wy.*	*EI*	*−0.009*	*−0.01*	*+0.01*	*0*	___	___	
	29	*Wy.*	*WI*	*+0.045*	*+0.48*	*+0.48*	*0*	___	*3*	
Feb.	26	Hd.	EI	+0.020		____	I	2	9	3
	27	Fn.	EI	+0.012		____	I	2	4	1½
Mar.	3	Fn.	WI	+0.020		____	I	2	4	3
	4	Wy.	WI	+0.012		____	I	3	4	2
	7	Wy.	EI	+0.008		−0.02	0	___		3½
	13	Fn.	WI	−0.004		____	I	2	4	2
	24	Fn.	EI	−0.010		____	I	1	9	2½
	26	Hd.	EI	−0.020		____	II	2	6	2
Apr.	3	Fn.	WI	+0.008		____	I	2	4	2
May	9	Fn.	WI	+0.035		−0.10	I	2	4	2½
	20	Hd.	WI	+0.028		+0.35	I	2	9	2½
	21	Fn.	WI	+0.044		+0.49	I	2	4	2½
	25	Fn.	EI	+0.037		____	I	2	4	2½
June	17	Wy.	EI	+0.037		+0.67	II	2	6	2
	20	Wy.	WI	+0.053		−0.28	I	2	9	2½
	23	Hd.	WI	+0.024		−0.16	I	___		2
	24	Wy.	WI	+0.028		+0.20	II	2	6	2
	29	Fn.	WI	+0.037		+0.40	I	2	4	2½
	30	Hd.	WI	+0.007		+0.62	I	2	9	3
July	2	Fn.	WI	+0.022		−0.30	I	2	9	2
	8	Fn.	WI	+0.038		−0.17	I	2	4	1½

[1] Leaves burning near transit house.

				s	"	"					
1914											
Oct.	2	Wy.	WI	−0.037	−0.45	−0.39	0	---			4
	10	An.	WI	0.000	+0.34	+0.36	0	---			3
	17	An.	EI	−0.045	−0.01	+0.04	0	---			3½
	19	Hd.	EI	+0.037	+0.04	+0.08	0	---			3
	21	An.	EI	−0.003	−0.64	−0.57	0	---			4
	22	Hd.	EI	+0.038	+0.13	+0.16	0	---			3
	30	Hd.	EI	−0.041	−0.47	−0.43	0	---			4
Nov.	10	Fn.	WI	+0.043	----	----	0	---			3½
	13	Fn.	WI	−0.051	----	----	0	---			4
	19	Wy.	EI	−0.020	−0.23	−0.18	0	---			3½
	22	Fn.	EI	+0.141	−1.00	−0.97	0	---			3½
	25	Wy.	EI	+0.029	0.00	0.00	0	---			4
	27	Wy.	EI	+0.037	+0.34	+0.45	0	---			3½
Dec.	13	Fn.	WI	−0.028	−0.08	−0.06	0	---			4
	15	An.	WI	−0.020	+0.31	+0.34	0	---			3½
	16	Fn.	WI	+0.005	+0.08	+0.10	0	---			3
	17	Hd.	WI	+0.020	−0.04	+0.01	0	---			3
	27	Fn.	WI	-----	+1.32	+1.36	0	---			3
	29	An.	EI	+0.073	−0.20	−0.20	0	---			3
1915											
Jan.	4	Wy.	EI	+0.012	−0.29	−0.30	0	---			3
	6	Hd.	EI	+0.094	−0.37	−0.37	0	---			3
	7	Wy.	EI	+0.081	+0.06	+0.05	I	---			3
	8	An.	EI	+0.060	+0.37	+0.36	I	---			2
	13	Hd.	WI	−0.007	−0.16	−0.15	I	---			2
	14	Fn.	WI	−0.012	+0.75	+0.76	0	---			3
	15	An.	WI	+0.011	+0.54	+0.53	0	---			2½
	20	Wy.	EI	+0.033	+0.40	+0.41	I	---			3
	29	Fn.	EI	-----	+0.39	+0.41	I	---			2
Apr.	26	Fn.	EI	+0.035		−0.07	I	2.9	2		
May	17	Hd.	EI	+0.052		+0.20	I	2.9	2½		
	19	Fn.	EI	+0.035		−0.95	I	1.9	2		
	27	Wy.	WI	+0.056		−0.73	II	2.6	2½		
	31	Wy.	WI	+0.005		+0.44	I	---	2½		
June	4	An.	WI	−0.012		----	II	3.1	2		
	8	Hd.	EI	+0.031		----	II	2.6	2		
	9	An.	EI	+0.033		----	II	3.1	2½		
	10	Fn.	EI	+0.052		+0.22	I	2.4	2		
	12	An.	WI	+0.037		----	II	3.6	2		
	17	Fn.	WI	+0.041		+0.06	I	1.9	2		
	18	Hd.	WI	+0.013		−0.26	II	2.6	2		
	19	Wy.	WI	−0.010		----	II	2.6	2½		
	20	An.	EI	+0.073		----	I	---	2		
	22	Wy.	EI	+0.011		----	I	3.4	3		
	24	Fn.	EI	+0.041		----	I	2.4	2		
	25	Wy.	EI	+0.044		----	II	2.6	2½		
	27	Hd.	EI	+0.012		----	II	2.6	2		
	28	Wy.	EI	+0.019		----	II	2.1	2		
	29	Hd.	EI	+0.031		+0.12	I	---	2		
July	5	Hd.	WI	−0.015		----	I	2.9	2		
	6	Fn.	WI	+0.024		+0.71	I	2.4	2		
	9	Fn.	WI	−0.006		----	0	---	2½		
	11	Fn.	WI	+0.034		+0.10	I	2.9	2½		
Nov.	21	Fn.	EI	+0.080	+0.87	+0.92	0	---	3½		
	23	Hd.	EI	−0.013	+0.25	+0.28	0	---	3		
	25	Wy.	EI	+0.093	−0.75	−0.73	0	---	3½		
Dec.	2	Fn.	EI	+0.098	−0.76	−0.74	0	---	3		
	3	Hd.	EI	+0.041	+0.17	+0.19	0	---	2		
	6	Wy.	WI	+0.037	−0.44	−0.40	0	---	3½		
	10	Fn.	WI	-----	−0.57	−0.54	0	---	3½		
	14	Fn.	WI	+0.031	−1.08	−1.04	0	---	3½		
	20	Fn.	WI	+0.067	−0.64	−0.62	0	---	3		
	22	Wy.	WI	-----	+0.85	+0.88	0	---	3		
1916											
Jan.	2	Hd.	EI	+0.075	−0.17	−0.15	0	---			3
	3	Fn.	EI	+0.031	−0.24	−0.24	0	---			3
Feb.	3	Fn.	EI	+0.024		+0.40	I	2.4	2		
	7	Fn.	EI	+0.024		−0.12	I	2.4	2½		
Mar.	10	Fn.	WI	+0.044		+0.87	I	1.9	2		
June	1	Fn.	EI	−0.007		+0.46	0	---	2		
	17	Wy.	WI	+0.007		+0.42	II	2.1	2		
	22	Fn.	WI	+0.028		−0.16	I	2.4	2		
	23	Hd.	WI	+0.025		+1.05	II	2.1	2		
	26	Hd.	WI	0.000		+0.28	II	2.6	2		
	29	Hd.	WI	+0.059		−0.23	II	2.6	2		
July	3	Wy.	WI	+0.050		+0.99	I	---	3		
1916											
July	6	Wy.	EI	+0.022		−0.22	II	2.6	2		
	7	Fn.	EI	+0.016		+0.03	I	2.4	2½		
	11	Fn.	EI	+0.006		+0.17	I	2.9	2		
	13	Hd.	EI	+0.005		−0.32	I	2.9	2		
	14	Fn.	EI	+0.026		−0.48	I	2.4	2½		
	18	Wy.	EI	−0.007		+0.17	II	2.6	2		
	20	Hd.	EI	−0.001	−0.60	−0.61	I	---			2
	21	Wy.	EI	+0.015	−0.72	−0.72	I	---			2½
	27	Fn.	WI	−0.011	+0.05	+0.06	0	---			2½
Aug.	1	Fn.	WI	+0.012	+0.02	+0.02	0	---			2
	4	Fn.	WI	−0.004	+0.41	+0.40	0	---			2½
	7	Wy.	EI	−0.012	−0.59	−0.57	I	---			3
	17	Fn.	EI	0.000	−0.11	−0.11	0	---			3
	21	Wy.	EI	−0.027	−0.04	−0.03	0	---			3½
	24	Wy.	WI	+0.021	+0.40	+0.40	0	---			3
Sept.	5	Wy.	WI	−0.016	−0.15	−0.14	0	---			3
	11	Hd.	WI	−0.025	+0.30	+0.34	0	---			3
	19	Hd.	EI	−0.052	−0.46	−0.43	0	---			3
	20	Wy.	EI	+0.002	−0.21	−0.20	0	---			3½
	22	Hd.	EI	−0.007	−0.38	−0.37	0	---			2½
	26	Hd.	EI	−0.022	−0.20	−0.15	0	---			3
Oct.	6	Wy.	WI	+0.010	−0.39	−0.37	0	---			3½
	10	Fn.	WI	+0.053	−0.31	−0.27	0	---			3½
	12	Hd.	WI	+0.028	−0.33	−0.30	0	---			3
	24	Hd.	WI	+0.047	+0.08	+0.15	0	---			3
Nov.	3	Fn.	EI	+0.143	−0.29	−0.25	0	---			3½
	10	Fn.	EI	+0.014	+0.02	+0.03	0	---			3½
	26	Wy.	WI	−0.009	+0.52	+0.56	0	---			3½
Dec.	6	Fn.	EI	+0.045	+0.82	+0.81	0	---			3½
	7	Hd.	EI	−0.017	+0.19	+0.23	0	---			3
	13	Fn.	EI	+0.026	−0.36	−0.30	0	---			3½
	25	Fn.	WI	+0.022	−0.52	−0.50	0	---			3
	28	Hd.	WI	+0.055	−0.50	−0.48	0	---			2
1917											
Jan.	1	Wy.	WI	+0.020	−0.05	−0.02	0	---			3½
	17	Fn.	EI	+0.011	−0.14	−0.16	0	---			3½
	19	Fn.	WII	+0.010		−0.10	I	2.4	2½		
	21	Wy.	WII	+0.055		----	I	---	3		
	22	Fn.	WII	+0.035		+0.12	I	---	3		
	25	Wy.	WII	+0.032		+0.31	II	2.6	2		
	26	Hd.	WII	+0.020		−0.19	I	---	2		
July	6	Fn.	EII	0.000		+0.55	I	1.9	1½		
	31	Fn.	EII	+0.019	−0.13	−0.12	0	---	2		
Aug.	3	Fn.	WII	+0.051	+0.81	+0.81	0	---	2½		
	6	Hd.	WII	+0.057	+0.20	+0.22	I	---	2		
	10	Wy.	WII	−0.001	+0.60	+0.60	I	---	3		
Sept.	4	Fn.	EII	−0.024	+0.30	+0.33	0	---	2½		
	11	Fn.	EII	−0.032	−0.46	−0.43	0	---	3½		
	13	Hd.	EII	+0.012	+0.01	+0.04	0	---	3		
	17	Hd.	EII	−0.043	−0.08	−0.05	I	---	3		
	20	Hd.	WII	−0.022	+0.24	+0.28	0	---	3½		
	27	Fn.	WII	-----	−0.30	−0.29	0	---	3½		
Oct.	2	Fn.	WII	+0.002	+0.07	+0.12	0	---	3½		
	15	Fn.	EII	−0.012	+0.26	+0.30	0	---	3½		
	22	Hd.	EII	+0.069	−0.32	−0.28	0	---	3		
	26	Fn.	EII	+0.134	+0.64	+0.67	0	---	4		
Dec.	9	Fn.	WII	−0.001	+0.53	+0.58	0	---	4		
	20	Wy.	EII	+0.043	+0.48	+0.50	0	---	3		
	23	Fn.	EII	+0.103	−0.02	+0.01	0	---	3½		
1918											
Jan.	7	Hd.	EII	+0.032	+0.39	+0.40	I	---			3
June	19	Wy.	WII	+0.024		+0.98	I	2.9	3		
	24	Wy.	WII	+0.031		+0.18	II	1.6	2½		
	28	Hd.	WII	+0.055		+0.72	II	3.1	2		
July	1	Wy.	WII	+0.027		+0.35	II	2.1	2½		
	2	Hd.	WII	+0.035		+0.47	II	2.6	2		
	9	Hd.	EII	+0.009		−0.28	0	---	2		
	15	Wy.	EII	+0.036		+0.19	II	2.1	2½		
	16	Hd.	EII	−0.003		+0.08	I	2.9	2		
Aug.	15	Fn.	WII	+0.020	−0.50	−0.49	I	---	2		
	16	Hd.	WII	-----	+0.19	+0.21	I	---	3		
Mean			1914.48	+0.020		+0.21					
			1914.70								
Corr				−0.081		−0.24					

3 H. Scorpii

				h	m	s	°	′	″			
1913												
May	6	Fn.	EII	15	31	33.463	−27	50	14.69	0	---	2½
	8	Hd.	EII			33.480			15.13	I	4.9	3
	28	R.	WII			33.485			15.49	I	---	3½
	29	Hd.	WII			------			15.12	0	---	2
June	2	Hd.	WII			33.497			14.81	I	4.4	3
1914												
May	15	Wy.	WI			33.493			15.22	0	5.5	3½
	16	Fn.	WI			33.492			16.64	0	5.0	3½
	26	Wy.	EI			33.481			14.71	0	---	3½
June	2	Fn.	EI			33.542			15.80	I	3.9	3
	6	Wy.	EI			33.459			14.66	I	---	2½
Mean		1913.95		15	31	33.488	−27	50	15.23			
		1913.89										
Corr						−0.081			0.00			

Weisse$_1$ XV 535

				h	m	s	°	′	″			
1911												
June	8	Fn.	WII	15	31	36.466	+11	33	52.04	0	6.6	--
	9	Hd.	WII			36.492			52.09	0	6.5	1
	15	Fn.	EII			36.475			52.24	0	5.6	2
	20	Hd.	EII			36.484			51.61	0	6.5	4
1915												
Apr.	24	An.	WI			36.450			51.98	0	---	2
May	8	Hd.	EI			36.470			51.88	0	6.5	2½
	10	Hd.	EI			36.466			52.15	0	6.5	3
	15	Wy.	WI			36.449			52.18	0	6.5	2½
Mean		1913.40		15	31	36.469	+11	33	52.02			
Corr						−0.081			−0.21			

τ Libræ

				h	m	s	°	′	″			
1911												
July	6	Fn.	EII	15	33	7.530	−29	28	56.20	0	---	3½
	9	R.	EII			7.600			57.47	I	3.4	--
	14	Hd.	WII			7.537			56.80	0	5.5	2
	15	R.	WII			7.547			57.21	0	4.5	1
1915												
June	4	An.	WI			7.507			55.87	I	5.4	3½
	8	Hd.	EI			7.526			56.60	0	5.5	3½
	9	An.	EI			7.575			57.27	I	5.4	3½
	12	An.	WI			7.522			56.88	I	5.4	3
	20	An.	EI			7.534			56.64	I	5.4	3½
Mean		1913.70		15	33	7.542	−29	28	56.77			
Corr						−0.081			+0.02			

Bradley 1975

				h	m	s	°	′	″			
1913												
Apr.	19	R.	WII	15	33	43.572	−19	0	22.66	0	6.0	3
	20	R.	WII			43.638			21.99	0	6.0	3½
	21	Hd.	EII			43.618			21.88	0	6.0	3
	25	Fn.	EII			43.524			21.74	0	6.0	2
1914												
Feb.	26	Hd.	EI			43.612			23.00	0	6.5	3½
	27	Fn.	EI			43.591			22.86	0	6.5	3
Mar.	3	Fn.	WI			43.616			22.49	0	6.0	3½
	13	Fn.	WI			43.624			22.70	0	6.0	3
Mean		1913.74		15	33	43.599	−19	0	22.42			
Corr						−0.081			−0.09			

θ Ursæ Minoris

				h	m	s	°	′	″			
1912												
May	24	Hd.	EII	15	34	3.85	+77	38	56.69	I	4.4	2
	25	R.	EII			3.86			58.09	0	---	4
	31	Hd.	WII			3.85			58.32	I	4.4	2
June	1	R.	WII			3.90			58.00	I	4.4	2
1915												
June	19	Wy.	WI			3.89			58.22	I	4.9	3
	24	Fn.	EI			4.12			57.82	0	5.0	2
	25	Wy.	EI			3.97			58.39	0	---	3
July	5	Hd.	WI			4.01			58.48	I	4.9	2
Mean		1913.95		15	34	3.931	+77	38	58.00			
Corr						−0.081			−0.36			

θ Ursæ Minoris s. p.

				h	m	s	°	′	″			
1912												
Jan.	27	R.	EII	15	34	3.70	+77	38	58.18	0	5.5	3½
Feb.	1	Fn.	EII			4.06			58.08	0	5.7	3
	2	Hd.	WII			3.85			57.31	0	5.5	4
	4	Fn.	WII			3.84			56.51	0	---	3½
1915												
Sept.	28	Hd.	EI			3.94			56.45	0	6.0	3½
	29	Fn.	EI			3.94			56.33	0	5.0	3
Oct.	9	Hd.	WI			3.65			57.96	0	5.5	3½
	11	Hd.	WI			3.74			57.22	0	5.5	3½
Mean		1913.92		15	34	3.840	+77	38	57.26			
Corr						−0.081			+0.50			

Weisse$_2$ XV 752

				h	m	s	°	′	″			
1911												
July	1	R.	WII	15	34	29.341	+22	58	5.82	0	7.0	--
	3	Fn.	EII			29.411			5.56	0	7.8	--
	5	R.	EII			29.370			7.18	0	7.5	1
	10	Fn.	WII			29.409			6.92	0	---	1½
1915												
June	22	Wy.	EI			29.391			6.05	0	7.5	3
	27	Hd.	EI			29.373			6.64	0	7.5	2
July	6	Fn.	WI			29.408			6.78	0	7.5	2
	11	Fn.	WI			29.385			5.95	0	7.5	2½
Mean		1913.50		15	34	29.386	+22	58	6.36			
Corr						−0.081			−0.24			

φ Boötis

				h	m	s	°	′	″			
1913												
May	2	Fn.	EII	15	34	35.764	+40	38	46.87	0	5.5	2½
	3	R.	EII			35.688			46.12	0	5.5	2½
June	4	R.	WII			35.654			45.72	0	5.5	2
	5	Hd.	WII			------			46.06	I	4.4	2
	6	Fn.	WII			35.629			45.59	0	5.4	2
1914												
Mar.	7	Wy.	EI			35.616			45.95	0	---	3½
	24	Fn.	EI			35.683			45.60	0	5.5	2½
	26	Hd.	EI			35.674			46.16	0	5.5	2½
Apr.	3	Fn.	WI			35.690			46.45	0	5.0	2
	6	Fn.	WI			35.719			45.29	0	5.0	2½
Mean		1913.85		15	34	35.680	+40	38	45.98			
		1913.81										
Corr						−0.081			−0.27			

Carrington 2352

				h	m	s	°	′	″			
1913												
Mar.	11	R.	EII	15	35	18.91	+81	4	16.96	0	7.0	2
	18	R.	WII			18.70			16.88	0	7.0	2
	29	R.	EII			19.03			-----	0	---	--
Apr.	1	R.	EII			18.81			17.66	0	7.5	2½
	6	R.	WII			18.91			16.78	0	7.5	2
1914												
Apr.	9	Fn.	WI			19.03			17.75	0	7.0	2½
	10	Wy.	WI			19.30			17.44	0	7.0	3½
	21	Hd.	EI			18.99			17.73	0	7.0	2
	27	Wy.	EI			18.86			17.61	0	7.0	2
Mean		1913.70		15	35	18.949	+81	4	17.35			
		1913.76										
Corr						−0.081			−0.37			

Carrington 2352 s. p.

				h	m	s	°	′	″			
1911												
Dec.	27	R.	EII	15	35	18.84	+81	4	16.95	0	6.0	3
1912												
Jan.	10	Hd.	EII			18.90			16.69	0	7.0	3
	19	Fn.	WII			18.83			16.09	0	7.3	3½
	20	R.	WII			18.90			16.94	0	7.5	3

			h	m	s	°	′	″			
1915											
Oct. 22	Hd.	WI			18.91			15.91	0	7.0	3½
23	Wy.	WI			19.02			15.74	0	7.5	3½
28	Wy.	EI			19.17			16.72	0	7.5	4
29	Hd.	EI			19.23			16.90	0	7.5	3½
Mean	1913.92		15	35	18.975	+81	4	16.49			
Corr					−0.081			+0.47			

B. D.+35° 2711

			h	m	s	°	′	″			
1913											
Apr. 29	Fn.	EII	15	35	20.224	+34	58	4.63	0	6.5	3
30	R.	EII			20.207			4.87	0	---	3
May 24	R.	WII			20.212			5.10	0	6.0	2½
31	R.	WII			20.163			4.71	0	6.0	3
1914											
Apr. 30	Wy.	WI			20.177			5.37	0	6.5	3
May 2	Fn.	WI			20.214			4.77	0	6.0	2
22	Wy.	EI			20.160			5.04	0	---	3
25	Fn.	EI			20.175			5.14	0	---	3
Mean	1913.86		15	35	20.192	+34	58	4.95			
Corr					−0.081			−0.26			

Piazzi XV 153

			h	m	s	°	′	″			
1912											
May 19	R.	EII	15	35	23.241	+47	5	37.81	0	---	1½
20	Fn.	EII			23.202			37.66	0	5.5	2½
21	Hd.	WII			23.250			37.86	0	6.0	2
June 3	Fn.	WII			23.254			38.15	0	5.8	1½
1915											
May 19	Fn.	EI			23.361			37.50	0	5.5	2
27	Wy.	WI			23.326			37.48	0	6.0	2½
June 10	Fn.	EI			23.364			37.36	0	6.0	2½
18	Hd.	WI			23.276			37.92	0	6.0	2
Mean	1913.91		15	35	23.284	+47	5	37.72			
Corr					−0.081			−0.28			

ζ Coronæ Borealis *seq.*

			h	m	s	°	′	″			
			15	35	59.332	+36	55	39.18			
1912											
May 27	Fn.	EII			−0.098			−0.71	0	---	1½
28	Hd.	WII			+0.013			−0.63	I	4.4	2
30	Fn.	WII			−0.012			+0.18	0	---	2½
June 5	R.	EII			−0.061			−0.06	I	4.4	1½
1915											
May 10	Hd.	EI			−0.011			−0.13	0	---	3
17	Hd.	EI			−0.003			+0.10	I	4.9	2½
31	Wy.	WI			−0.052			+0.44	0	---	2½
June 17	Fn.	WI			−0.088			+0.25	0	5.0	2
29	Hd.	EI			−0.011			----	0	---	2
1916											
June 12	Wy.	EI			−0.052			----	0	5.0	3
17	Wy.	WI			−0.003			----	I	3.9	2
23	Hd.	WI			−0.014			----	I	4.9	2
26	Hd.	WI			−0.031			----	I	4.4	2
29	Hd.	WI			−0.028			----	I	4.9	2
July 6	Wy.	EI			−0.030			----	0	5.0	2
11	Fn.	EI			−0.091			----	0	5.0	2
13	Hd.	EI			−0.049			----	0	---	2
17	Hd.	EI			−0.048			----	0	---	2
20	*Hd.*	*EI*			*−0.051*	----		----	*I*	---	*2*
1917											
July 27	*Hd.*	*EII*			*−0.074*	----		----	*0*	---	*2*
Aug. 6	*Hd.*	*WII*			*−0.015*	----		----	*0*	---	*2*
1918											
July 16	Hd.	EII			−0.040			----	0	5.5	2
19	Hd.	EII			−0.017			----	0	---	3
Mean	1915.62										
	1913.91				−0.036			−0.07			
Corr					−0.081			−0.26			

κ Libræ

			h	m	s	°	′	″			
1913											
Apr. 7	Fn.	WII	15	36	45.615	−19	23	16.74	0	5.0	3
17	R.	WII			45.556			16.52	0	5.5	3
22	Fn.	EII			45.498			16.74	0	5.6	3½
24	Hd.	EII			45.519			16.08	I	4.9	2
1914											
May 21	Fn.	WI			45.522			16.78	0	5.5	3½
June 2	Fn.	EI			45.564			16.83	0	5.5	2½
5	Fn.	EI			45.568			16.74	0	5.5	2½
20	Wy.	WI			45.521			16.57	0	6.0	3
Mean	1913.86		15	36	45.545	−19	23	16.62			
Corr					−0.081			−0.09			

Weisse$_1$ XV 652

			h	m	s	°	′	″			
1911											
June 9	Hd.	WII	15	36	57.941	−6	9	21.81	0	7.0	1
15	Fn.	EII			58.012			20.56	0	6.8	2
20	Hd.	EII			58.027			21.65	0	---	4
30	Hd.	WII			57.969			20.43	0	7.0	--
1915											
May 8	Hd.	EI			57.976			20.66	0	7.0	3
9	Wy.	EI			57.977			20.60	0	7.0	3
June 4	An.	WI			57.924			21.11	0	---	3
12	An.	WI			57.943			21.11	0	---	3
Mean	1913.43		15	36	57.971	−6	9	20.99			
Corr					−0.081			−0.16			

Bradley 1987

			h	m	s	°	′	″			
1913											
May 5	Hd.	EII	15	38	21.942	−14	45	18.93	0	6.5	3
8	Hd.	EII			21.982			18.78	0	6.5	3
June 2	Hd.	WII			22.005			17.63	0	7.0	3
5	Hd.	WII			22.004			18.46	0	6.5	2
1914											
May 18	Fn.	WI			22.017			18.13	0	6.5	3½
20	Hd.	WI			21.981			19.42	0	7.5	3
28	Fn.	EI			22.017			19.01	0	7.0	3
June 11	Fn.	EI			22.006			18.80	0	7.0	2½
Mean	1913.89		15	38	21.994	−14	45	18.64			
Corr					−0.081			−0.11			

ψ Serpentis

			h	m	s	°	′	″			
1912											
May 24	Hd.	EII	15	39	30.144	+2	48	10.94	0	5.8	2
26	Hd.	EII			30.124			11.45	0	6.0	2
June 1	R.	WII			30.138			10.90	0	6.0	1
3	Fn.	WII			30.111			11.26	0	6.3	1½
1915											
June 17	Fn.	WI			30.099			10.56	0	5.5	2½
20	An.	EI			30.107			10.75	0	6.5	3
25	Wy.	EI			30.150			10.35	0	---	3
July 6	Fn.	WI			30.110			10.85	0	6.0	2½
Mean	1913.94		15	39	30.123	+2	48	10.88			
Corr					−0.081			−0.19			

α Serpentis

			h	m	s	°	′	″			
			15	39	50.073	+6	42	29.87			
1911					s	″		″			
June 21	T.	EII			+0.029			+0.20	I	2.4	--
22	Fn.	EII			+0.051			−0.44	I	2.3	--
23	Fn.	EII			+0.020			−0.24	I	2.9	3
26	Fn.	EII			+0.031			+0.54	I	3.2	2
27	Hd.	WII			+0.064			+0.34	I	3.4	--
28	T.	WII			+0.048			−0.31	I	2.4	--
29	Fn.	WII			+0.036			+0.25	I	2.7	--
July 1	R.	WII			+0.053			−0.19	I	1.9	--
3	Fn.	EII			+0.032			−0.45	I	3.0	--
5	R.	EII			−0.009			−1.31	I	2.9	1

1911				s	"	"					
July	6	Fn.	EII	+0.033		+0.30	I	2.6	--		
	9	R.	EII	+0.052		+0.07	I	2.4	--		
	10	Fn.	WII	+0.017		−0.08	I	3.2	1½		
	12	R.	WII	+0.048		−0.02	0	---	4		
	14	Hd.	WII	+0.042		−0.17	I	2.9	2		
	15	R.	WII	+0.071		−0.24	II	1.6	2		
1912											
Jan.	*1*	*R.*	*EII*	-----	*−0.91*	*−0.93*	*0*	---	--		
	19	*Hd.*	*WII*	-----	*+0.51*	*+0.53*	*0*	---	*2*		
	22	*R.*	*EII*	*+0.003*	*−0.97*	*−0.94*	*0*	---	*5*		
	24	*Fn.*	*EII*	-----	*−2.16*	*−2.16*	*0*	---	*2*		
May	13	Fn.	WII	−0.002		+0.84	0	---	2		
	18	Hd.	EII	+0.061		−0.29	II	2.6	2		
June	8	R.	EII	+0.033		+0.34	II	2.6	1		
	10	Hd.–Fn.	EII	-----		−1.78	I	---	--		R.
	10	Hd.–Fn.	EII	-----		−0.26	I	---	--		
	11	Hd.–Fn.	EII	-----		−0.87	I	---	3		R.
	11	Hd.–Fn.	EII	-----		−0.41	I	---	3		
	13	Fn.–Hd.	EII	-----		−0.97	0	---	2		R.
	13	Fn.–Hd.	EII	-----		−0.37	0	---	2		
	20	Fn.–Hd.	EII	-----		−1.69	I	---	2		R.
	20	Fn.–Hd.	EII	-----		+0.29	I	---	2		
July	2	Fn.–Hd.	EII	-----		−1.03	I	---	--		R.
	2	Fn.–Hd.	EII	-----		+0.01	I	---	--		
	3	Hd.–Fn.	WII	-----		−0.84	I	---	--		R.
	3	Hd.–Fn.	WII	-----		+0.71	I	---	--		
	5	Hd.–Fn.	WII	-----		−0.66	I	---	--		R.
	5	Hd.–Fn.	WII	-----		−0.35	I	---	--		
	6	Fn.–Hd.	WII	-----		−0.65	I	---	--		R.
	6	Fn.–Hd.	WII	-----		+0.12	I	---	--		
	8	Fn.–Hd.	WII	-----		−0.06	I	---	2		R.
	8	Fn.–Hd.	WII	-----		−0.97	I	---	2		
Dec.	*2*	*R.*	*WII*	*+0.035*	*−1.23*	*−1.17*	*0*	---	*2½*		
	11	*R.*	*EII*	*+0.064*	----	----	*0*	---	--		
	13	*R.*	*EII*	*+0.027*	*−0.21*	*+0.03*	*0*	---	*5*		
	20	*R.*	*EII*	*+0.052*	*−0.21*	*−0.07*	*0*	---	*5*		
	22	*Fn.*	*WII*	*+0.037*	----	----	*0*	---	--		
	25	*R.*	*WII*	-----	*−0.39*	*−0.19*	*0*	---	*2½*		
	27	*Hd.*	*WII*	*+0.041*	*−0.61*	*−0.55*	*0*	---	*3½*		
	30	*Hd.*	*WII*	-----	*−0.69*	*−0.58*	*0*	---	*3*		
1913											
Jan.	*1*	*R.*	*WII*	-----	*−0.47*	*−0.47*	*0*	---	*3½*		
	3	*Hd.*	*WII*	*+0.014*	*−0.28*	*−0.30*	*0*	---	--		
	8	*R.*	*WII*	*+0.053*	----	----	*0*	---	*2*		
	12	*Fn.*	*WII*	-----	*+0.56*	*+0.60*	*0*	---	*1½*		
	14	*Fn.*	*WII*	*+0.044*	*−0.38*	*−0.35*	*0*	---	*3*		
Mar.	29	R.	EII	+0.051		−0.68	0	---	2		
Apr.	1	R.	EII	+0.038		----	I	2.9	3		
	8	R.	WII	+0.059		----	0	---	2½		
	19	R.	WII	+0.054		----	I	2.9	2½		
	20	R.	WII	+0.052		----	I	2.9	2½		
May	10	R.	EII	+0.041		−0.06	II	3.1	2½		
	24	R.	WII	+0.022		----	II	3.1	3		
June	4	R.	WII	+0.038		----	II	---	2		
	13	Fn.	EII	+0.053		−0.30	I	2.9	2½		
	17	Fn.	EII	+0.024		−0.90	I	2.9	2		
	18	R.	EII	+0.004		−0.82	II	2.6	2½		
	19	Hd.	EII	+0.035		−0.38	I	2.9	2		
July	7	Hd.	WII	+0.048		−0.10	II	2.6	2½		
	8	Fn.	WII	+0.028		−0.31	I	2.7	2		
Nov.	*24*	*R.*	*EI*	*+0.077*	*+0.04*	*+0.17*	*0*	---	--		
Dec.	*5*	*Hd.*	*EI*	*+0.023*	*−0.44*	*−0.37*	*0*	---	*3*		
	11	*R.*	*EI*	*+0.091*	*−0.98*	*−0.84*	*0*	---	--		
	12	*Hd.*	*EI*	*−0.007*	*−0.41*	*−0.38*	*0*	---	*3*		
	14	*Fn.*	*WI*	*+0.009*	*−0.71*	*−0.52*	*0*	---	*3*		
	17	*Fn.*	*WI*	*+0.021*	*−0.13*	*−0.06*	*0*	---	*2½*		
	18	*R.*	*WI*	*+0.033*	*+0.03*	*+0.17*	*0*	---	--		
	21	*Fn.*	*WI*	*+0.042*	*+0.04*	*+0.06*	*0*	---	*3*		
	23	*Hd.*	*WI*	-----	*+0.28*	*+0.28*	*0*	---	*3*		
	26	*Wy.*	*WI*	*+0.010*	*−1.23*	*−1.16*	*0*	---	*2½*		
	28	*Fn.*	*WI*	*−0.025*	*−0.25*	*−0.21*	*0*	---	*2½*		
	29	*Wy.*	*WI*	*+0.006*	*−0.24*	*−0.22*	*0*	---	--		
1914											
Jan.	*5*	*Fn.*	*EI*	*+0.050*	*−0.06*	*−0.21*	*0*	---	*3*		
Feb.	26	Hd.	EI	+0.046		−1.29	I	2.9	3		
	27	Fn.	EI	+0.048		−0.23	0	---	2		
Mar.	3	Fn.	WI	+0.022		−0.55	I	2.9	3½		
1914				s	"	"					
Mar.	4	Wy.	WI	+0.018		−0.45	0	---	3		
	13	Fn.	WI	+0.035		−0.41	I	2.9	2½		
	14	Wy.	WI	+0.019		+0.01	0	---	3		
Apr.	1	Wy.	WI	+0.043		−0.40	I	3.4	3½		
	3	Fn.	WI	+0.017		----	I	2.9	2		
May	11	Hd.	WI	+0.049		−0.22	I	---	3		
	22	Wy.	EI	+0.051		----	I	2.9	3		
June	16	Hd.	EI	+0.047		+0.16	I	2.9	2		
	17	Wy.	EI	+0.042		----	II	2.6	2½		
	24	Wy.	WI	+0.035		−0.67	I	2.9	2½		
	29	Fn.	WI	+0.042		+0.09	I	2.9	2½		
	30	Hd.	WI	+0.026		+0.20	I	---	3		
July	2	Fn.	WI	+0.015		−0.73	I	2.9	2		
	3	Hd.	WI	+0.019		−0.07	I	---	2		
	8	Fn.	WI	−0.005		−0.64	I	2.9	2		
	18	Hd.	EI	+0.008		−0.13	I	2.9	2		
Oct.	*10*	*An.*	*WI*	*+0.056*	*−0.83*	*−0.77*	*0*	---	*3½*		
	17	*An.*	*EI*	*+0.035*	*−0.91*	*−0.76*	*0*	---	*4*		
	19	*Hd.*	*EI*	*+0.045*	*−1.08*	*−0.96*	*0*	---	*3½*		
	21	*An.*	*EI*	*+0.018*	*−1.03*	*−0.82*	*0*	---	*4*		
	22	*Hd.*	*EI*	*+0.022*	----	----	*0*	---	*3½*		
	30	*Hd.*	*EI*	*+0.001*	*−0.61*	*−0.48*	*0*	---	*4*		
Dec.	*27*	*Fn.*	*WI*	-----	*+0.17*	*+0.29*	*0*	---	*3*		
1915											
Jan.	*4*	*Wy.*	*EI*	*+0.008*	*−0.75*	*−0.81*	*0*	---	*3*		
	6	*Hd.*	*EI*	*+0.056*	*−0.85*	*−0.86*	*0*	---	*3*		
	7	*Wy.*	*EI*	*+0.013*	*−0.74*	*−0.74*	*0*	---	*3½*		
	8	*An.*	*EI*	*+0.036*	*−0.21*	*−0.22*	*I*	---	*2½*		
	12	*An.*	*WI*	*+0.005*	*+0.26*	*+0.27*	*0*	---	*4*		
	13	*Hd.*	*WI*	*+0.057*	*−0.26*	*−0.22*	*0*	---	*2*		
	14	*Fn.*	*WI*	*+0.009*	*−0.03*	*+0.03*	*0*	---	*3*		
	20	*Wy*	*EI*	*+0.053*	*−0.62*	*−0.60*	*0*	---	*3*		
	29	*Fn.*	*EI*	-----	*−0.07*	*−0.01*	*0*	---	*2½*		
Apr.	26	Fn.	EI	+0.032		----	I	3.4	2½		
June	18	Hd.	WI	−0.006		----	I	2.9	2		
	27	Hd.	EI	+0.046		+0.01	II	3.1	2½		
	28	Wy.	EI	+0.061		----	II	2.6	2½		
	29	Hd.	EI	+0.035		+0.02	I	---	2		
July	9	Fn.	WI	+0.017		----	I	3.4	3		
	11	Fn.	WI	+0.024		−0.92	I	2.9	3		
	12	Hd.	WI	+0.028		−0.92	0	---	2½		
	14	An.	WI	+0.023		+0.19	II	3.1	3		
	21	An.	EI	+0.020		+0.04	I	---	3		
Dec.	*3*	*Hd.*	*EI*	*+0.054*	*−0.08*	*−0.01*	*0*	---	*2*		
	6	*Wy.*	*WI*	*+0.065*	----	----	*0*	---	*3½*		
	14	*Fn.*	*WI*	*+0.145*	*−0.72*	*−0.62*	*0*	---	*3½*		
	20	*Fn.*	*WI*	*+0.030*	*−0.62*	*−0.56*	*0*	---	*3½*		
	22	*Wy.*	*WI*	*+0.039*	*0.00*	*+0.07*	*0*	---	*3*		
1916											
Jan.	*2*	*Hd.*	*EI*	*+0.053*	*−0.87*	*−0.82*	*0*	---	*3*		
	3	*Fn.*	*EI*	*+0.027*	*−0.56*	*−0.55*	*0*	---	*3*		
June	1	Fn.	EI	+0.031		−0.07	0	---	2½		
	12	Wy.	EI	+0.052		−0.41	I	3.4	3		
	13	Fn.	EI	+0.035		−0.27	I	3.4	2		
	17	Wy.	WI	+0.042		−0.32	I	2.9	2		
	22	Fn.	WI	+0.064		+0.25	I	2.9	2		
	23	Hd.	WI	+0.048		+0.64	II	2.6	2		
	26	Hd.	WI	+0.016		+0.02	II	2.6	2		
	29	Hd.	WI	+0.041		−0.54	I	2.9	2		
July	3	Wy.	WI	+0.024		----	I	---	3		
	6	Wy.	EI	+0.032		−0.01	I	3.4	3		
	7	Fn.	EI	−0.003		−0.49	I	2.9	2		
	11	Fn.	EI	+0.037		−0.12	I	2.9	2		
	13	Hd.	EI	+0.031		−0.61	I	3.4	2		
	14	Fn.	EI	−0.023		−0.67	I	2.4	2½		
	18	Wy.	EI	+0.027		+0.07	I	2.9	2		
	20	Hd.	EI	+0.029		−0.60	I	2.9	2		
	21	Wy.	EI	+0.036		−0.85	II	2.6	3		
	27	Fn.	WI	*+0.027*	*+0.07*	*+0.10*	*0*	---	*2½*		
Aug.	*1*	*Fn.*	*WI*	*+0.035*	*−0.27*	*−0.26*	*0*	---	*2*		
	4	*Fn.*	*WI*	*+0.035*	----	----	*0*	---	*2½*		
	7	*Wy.*	*EI*	*+0.029*	*−0.65*	*−0.60*	*I*	---	*3*		
	17	*Fn.*	*EI*	*+0.011*	*−0.55*	*−0.55*	*0*	---	*2½*		
	24	*Wy.*	*WI*	*+0.026*	*−0.38*	*−0.37*	*0*	---	*3*		
Sept.	*11*	*Hd.*	*WI*	*+0.005*	*−0.41*	*−0.30*	*0*	---	*3*		
	20	*Wy.*	*EI*	*+0.052*	*−0.47*	*−0.44*	*0*	---	*3½*		
	22	*Hd.*	*EI*	*+0.015*	*−1.31*	*−1.28*	*0*	---	*2½*		

				s	″	″			
1916									
Sept.	*26*	*Hd.*	*EI*	*−0.002*	*−0.65*	*−0.51*	*0*	---	*3*
	28	*Wy.*	*WI*	*+0.032*	*−1.36*	*−1.29*	*0*	---	*3½*
Oct.	*6*	*Wy.*	*WI*	*+0.017*	*−1.30*	*−1.27*	*0*	---	*3½*
	10	*Fn.*	*WI*	*+0.067*	*−1.29*	*−1.14*	*0*	---	*3½*
	12	*Hd.*	*WI*	*+0.058*	*−1.27*	*−1.19*	*0*	---	*3*
	17	*Fn.*	*WI*	*−0.021*	----	----	*0*	---	*3½*
	24	*Hd.*	*WI*	*+0.070*	*−0.20*	*−0.01*	*0*	---	*3½*
Dec.	*6*	*Fn.*	*EI*	*+0.080*	*−0.82*	*−0.85*	*0*	---	*3½*
	7	*Hd.*	*EI*	*+0.073*	*−1.30*	*−1.17*	*0*	---	*3*
	25	*Fn.*	*WI*	*+0.076*	*−0.36*	*−0.29*	*0*	---	*3½*
1917									
Jan.	*1*	*Wy.*	*WI*	*+0.063*	*−0.96*	*−0.87*	*0*	---	*3½*
	17	*Fn.*	*EI*	*+0.043*	*−0.59*	*−0.62*	*0*	---	*3½*
	18	*Hd.*	*EI*	*+0.043*	*−0.66*	*−0.68*	*0*	---	*3*
June	19	Fn.	WII	0.000		−0.07	I	2.9	2½
	21	Wy.	WII	+0.021		−0.45	I	---	3
	22	Fn.	WII	+0.048		−0.15	I	---	3
	25	Wy.	WII	+0.021		−0.14	II	2.6	2
	26	Hd.	WII	+0.019		−0.19	I	---	2½
July	6	Fn.	EII	+0.033		+0.52	I	2.9	2
	12	Fn.	EII	+0.028		−0.11	0	---	2½
	27	*Hd.*	*EII*	*+0.029*	*+0.04*	*+0.07*	*I*	---	*2*
	31	*Fn.*	*EII*	*+0.071*	*−0.05*	*−0.03*	*0*	---	*2*
Aug.	*3*	*Fn.*	*WII*	*+0.041*	*−0.31*	*−0.31*	*0*	---	*2*
	6	*Hd.*	*WII*	*+0.061*	*−0.02*	*+0.02*	*I*	---	*2*
	9	*Hd.*	*WII*	*+0.011*	*−0.04*	*−0.04*	*I*	---	*3*
	10	*Wy.*	*WII*	*−0.024*	*+0.16*	*+0.16*	*I*	---	*3*
Sept.	*4*	*Fn.*	*EII*	*+0.008*	*−0.22*	*−0.15*	*0*	---	*2½*
	11	*Fn.*	*EII*	*−0.003*	*−0.21*	*−0.12*	*0*	---	*3½*
	13	*Hd.*	*EII*	*+0.017*	*−0.43*	*−0.33*	*0*	---	*3*
	17	*Hd.*	*EII*	*+0.014*	*−0.36*	*−0.29*	*0*	---	*3*
	20	*Hd.*	*WII*	*+0.055*	*−0.64*	*−0.53*	*0*	---	*3½*
Oct.	*2*	*Fn.*	*WII*	*+0.040*	*−0.57*	*−0.41*	*0*	---	*3½*
	22	*Hd.*	*EII*	*+0.059*	*−0.85*	*−0.75*	*0*	---	*3½*
Dec.	*20*	*Wy.*	*EII*	*+0.052*	*−0.09*	*−0.02*	*0*	---	*3½*
1918									
Jan.	*7*	*Hd.*	*EII*	*−0.038*	*+0.60*	*+0.62*	*0*	---	*3*
June	24	Wy.	WII	+0.025		−0.22	I	3.4	3
	28	Hd.	WII	+0.013		+0.11	I	2.9	2
July	1	Wy.	WII	+0.031		−1.42	I	3.4	3
	2	Hd.	WII	+0.045		+0.09	I	2.9	2
	9	Hd.	EII	+0.010		+0.48	0	---	2
	15	Wy.	EII	+0.056		+0.41	I	3.4	2½
	16	Hd.	EII	+0.040		+0.21	I	2.9	2½
Aug.	*15*	*Fn.*	*WII*	*+0.003*	*−0.01*	*+0.02*	*0*	---	*2*
	16	*Hd.*	*WII*	*+0.048*	*−0.81*	*−0.77*	*0*	---	*3*
Mean		1914.72		+0.033		−0.20			
		1914.54							
Corr				−0.081		−0.20			

Groombridge 2270

				h	m	s	°	′	″			
1913												
Apr.	25	Fn.	EII	15	40	23.883	+52	38	40.80	0	5.3	1½
	29	Fn.	EII			23.894			40.42	0	5.4	2½
May	28	R.	WII			23.759			40.78	0	5.5	2
	31	R.	WII			23.748			40.92	0	6.0	3
1914												
Apr.	23	Wy.	EI			23.866			40.52	0	---	2
	27	Wy.	EI			23.838			40.61	0	6.0	2
	30	Wy.	WI			23.694			41.39	0	6.0	2½
May	2	Fn.	WI			23.859			41.37	0	6.0	2
Mean		1913.84		15	40	23.818	+52	38	40.85			
Corr						−0.081			−0.30			

Bradley 1993

				h	m	s	°	′	″			
1913												
May	2	Fn.	EII	15	40	36.857	+17	32	48.54	0	6.4	3
	3	R.	EII			36.843			48.40	0	6.0	2½
June	4	R.	WII			36.806			48.17	0	---	2
	6	Fn.	WII			36.812			47.92	0	6.5	2
1914												
June	13	Wy.	EI			36.804			48.39	0	6.0	2
	15	Fn.	EI			36.780			48.39	0	6.0	2
	20	Wy.	WI			36.783			47.46	0	6.5	2½
	23	Hd.	WI			36.791			47.72	0	6.5	2½
Mean		1913.92		15	40	36.810	+17	32	48.12			
Corr						−0.081			−0.23			

Lacaille 6516

				h	m	s	°	′	″			
1911												
May	20	T.	WII	15	40	43.907	−27	46	47.96	0	---	---
	22	Fn.	WII			43.881			48.18	I	---	---
	24	T.	EII			43.939			47.85	0	---	---
	25	Fn.	EII			43.893			47.03	0	---	---
1915												
May	19	Fn.	EI			43.872			47.02	0	7.0	3
June	4	An.	WI			43.847			47.08	0	7.0	3½
	9	An.	EI			43.868			47.65	0	---	3½
	12	An.	WI			43.882			46.70	0	---	3½
Mean		1913.41		15	40	43.886	−27	46	47.43			
Corr						−0.081			0.00			

β Serpentis

				h	m	s	°	′	″			
				15	42	2.056	+15	42	10.23			
1913												
Apr.	1	R.	EII			−0.001			−0.04	I	3.9	2½
	2	Fn.	EII			−0.046			+0.36	0	---	3½
	7	Fn.	WII			−0.009			+0.90	I	3.7	2
	8	R.	WII			−0.053			−0.77	0	---	2½
1914												
May	20	Hd.	WI			−0.046			+0.54	I	3.9	3
	21	Fn.	WI			−0.034			+0.80	I	3.9	2½
	22	Wy.	EI			−0.052			−0.04	I	3.9	2½
	25	Fn.	EI			−0.073			+0.49	0	---	3
Mean		1913.82				−0.039			+0.28			
Corr						−0.081			−0.22			

λ Serpentis

				h	m	s	°	′	″			
1912												
May	19	R.	EII	15	42	4.419	+7	38	4.37	I	---	1
	20	Fn.	EII			4.412			3.94	0	5.0	2½
	21	Hd.	WII			4.411			3.84	I	4.4	2
	28	Hd.	WII			4.466			4.08	I	4.4	2
1915												
May	9	Wy.	EI			4.430			4.02	I	4.4	3
	10	Hd.	EI			4.416			4.13	I	4.9	3
June	17	Fn.	WI			4.409			4.34	0	5.0	2½
	18	Hd.	WI			4.397			3.89	I	4.9	2
Mean		1913.90		15	42	4.420	+7	38	4.08			
Corr						−0.081			−0.20			

Lalande 28744

				h	m	s	°	′	″			
1913												
May	5	Hd.	EII	15	43	6.328	−23	33	24.81	0	---	3
	8	Hd.	EII			6.316			23.80	0	7.5	3
June	5	Hd.	WII			6.378			24.29	0	7.0	2
	9	Hd.	WII			6.326			23.73	0	7.0	3
1914												
Apr.	30	Wy.	WI			6.393			24.76	0	---	3
May	2	Fn.	WI			6.360			24.92	0	7.0	3
	16	Fn.	WI			6.332			24.70	0	7.0	3
June	2	Fn.	EI			6.328			24.04	0	7.0	3
	6	Wy.	EI			6.352			23.99	0	7.0	2½
Mean		1913.94		15	43	6.346	−23	33	24.34			
Corr						−0.081			−0.04			

Bradley 1999

				h m s	° ′ ″			
1911								
June 23	Hd.	EII	15	44 13.879	−3 32 35.80	0	---	--
26	Fn.	EII		13.899	35.27	0	---	--
30	Hd.	WII		13.879	35.49	0	6.0	--
July 1	R.	WII		13.897	35.29	0	---	--
1915								
May 19	Fn.	EI		13.843	35.09	0	5.5	2½
June 4	An.	WI		13.861	35.20	0	6.5	3
9	An.	EI		13.885	35.00	0	---	3½
12	An.	WI		13.890	35.21	0	---	3
Mean	1913.46		15	44 13.879	−3 32 35.29			
Corr				−0.081	−0.16			

κ Serpentis

			h m s	° ′ ″			
			15 44 41.254	+18 25 7.70			
1913							
Mar. 11	R.	EII	+0.004	+0.72	I	3.4	2
18	R.	WII	+0.022	+0.31	I	3.9	1
31	Fn.	EII	+0.081	−0.06	I	3.9	2½
Apr. 6	R.	WII	+0.013	−0.92	I	3.9	2
1914							
May 18	Fn.	WI	+0.064	−0.17	I	3.9	2½
19	Wy.	WI	+0.065	−0.38	I	4.4	3
28	Fn.	EI	+0.062	+0.56	0	---	2
June 5	Fn.	EI	+0.019	+0.36	0	---	2
Mean	1913.81		+0.041	+0.05			
Corr			−0.081	−0.23			

R Coronæ Borealis

			h m s	° ′ ″			
1911							
June 21	T.	EII	15 44 51.908	+28 25 56.09	0	6.0	--
22	Fn.	EII	51.924	55.46	0	6.3	--
28	T.	WII	51.946	56.51	0	6.5	--
29	Fn.	WII	51.925	56.23	0	6.4	--
1915							
June 10	Fn.	EI	51.944	56.27	0	6.0	2
17	Fn.	WI	51.961	55.94	0	5.5	2½
19	Wy.	WI	51.929	56.07	0	6.0	2½
20	An.	EI	51.929	56.04	0	6.5	2
Mean	1913.47		15 44 51.933	+28 25 56.08			
Corr			−0.081	−0.25			

μ Serpentis

			h m s	° ′ ″			
			15 44 55.286	−3 9 19.38			
1913							
Apr. 19	R.	WII	+0.025	−0.59	I	3.9	3
20	R.	WII	+0.067	−0.60	I	3.9	2
22	Fn.	EII	+0.056	−0.41	I	3.9	3½
24	Hd.	EII	+0.025	−0.24	I	3.4	1
1914							
Feb. 26	Hd.	EI	+0.028	−0.92	I	4.4	3
Mar. 3	Fn.	WI	+0.029	−0.75	I	3.4	3½
7	Wy.	EI	−0.003	----	0	---	3½
13	Fn.	WI	+0.086	−0.86	I	4.4	3
24	Fn.	EI	+0.064	−0.46	I	3.9	3
Mean	1913.80		+0.042	−0.60			
	1913.75						
Corr			−0.081	−0.17			

χ Lupi

			h m s	° ′ ″			
1911							
July 5	R.	EII	15 45 14.204	−33 21 14.39	I	4.9	3
6	Fn.	EII	14.197	13.19	0	5.3	3½
14	Hd.	WII	14.209	14.32	0	5.0	4
15	R.	WII	14.207	13.92	0	4.0	2½
1915							
June 27	Hd.	EI	14.215	12.85	0	6.0	4
28	Wy.	EI	14.169	13.66	I	4.4	3
1915							
July 5	Hd.	WI	14.222	13.27	0	5.5	3½
6	Fn.	WI	14.172	13.12	0	5.5	3
Mean	1913.51		15 45 14.199	−33 21 13.59			
Corr			−0.081	+0.10			

12 H. Draconis

			h m s	° ′ ″			
			15 45 17.536	+62 52 38.68			
1911							
May 27	T.	EII	−0.13	+0.13	0	5.5	--
29	Fn.	WII	−0.02	+0.51	0	---	--
June 1	Fn.	WII	−0.03	+0.92	0	5.5	--
11	R.	EII	+0.12	+1.06	0	---	--
1915							
June 22	Wy.	EI	+0.03	+0.97	0	6.0	3
25	Wy.	EI	+0.03	+0.26	0	---	3½
July 9	Fn.	WI	−0.04	+0.64	0	---	2½
11	Fn.	WI	−0.05	+0.30	0	5.5	2½
Mean	1913.46		−0.011	+0.60			
Corr			−0.081	−0.33			

ε Serpentis

			h m s	° ′ ″			
			15 46 19.738	+4 44 53.82			
1913							
Apr. 1	R.	EII	+0.039	−0.47	I	3.9	3½
2	Fn.	EII	+0.004	−1.03	0	---	3½
7	Fn.	WII	+0.054	−0.18	I	3.9	2
17	R.	WII	+0.030	−0.82	I	3.9	2
1914							
Apr. 1	Wy.	WI	+0.017	−1.46	I	3.9	3½
23	Wy.	EI	+0.030	−0.62	0	---	3
27	Wy.	EI	+0.030	−0.03	I	3.9	2½
May 2	Fn.	WI	+0.094	−0.38	I	3.9	3
Mean	1913.78		+0.037	−0.62			
Corr			−0.081	−0.19			

ζ Ursæ Minoris

			h m s	° ′ ″			
			15 47 15.165	+78 4 18.26			
1911							
May 20	T.	WII	−0.04	−0.15	0	---	--
22	Fn.	WII	−0.06	----	I	4.8	--
24	T.	EII	−0.37	+0.58	0	5.0	--
25	Fn.	EII	−0.35	+0.93	0	---	--
1915							
May 8	Hd.	EI	−0.18	+0.09	I	4.4	2
9	Wy.	EI	−0.18	−0.21	I	4.4	3
31	Wy.	WI	−0.30	+0.59	0	5.0	2½
June 18	Hd.	WI	−0.19	+0.41	I	4.9	2
Mean	1913.39		−0.209	+0.32			
	1913.68						
Corr			−0.081	−0.36			

ζ Ursæ Minoris S. P.

			h m s	° ′ ″			
			15 47 15.164	+78 4 18.26			
1912							
Oct. 10	R.	WII	−0.28	−0.64	I	4.9	1
Nov. 5	Fn.	WII	−0.27	−1.13	0	5.4	4
14	R.	EII	−0.25	−0.75	0	---	5
16	Hd.	EII	−0.15	−1.51	I	4.4	4
18	Fn.	EII	−0.06	−1.16	0	5.0	2
1913							
Dec. 13	Hd.	EI	−0.16	−1.61	I	4.4	3½
15	Fn.	WI	−0.21	−0.67	0	---	--
18	Fn.	WI	−0.11	−0.44	0	---	3½
1914							
Jan. 5	R.	EI	−0.11	+0.47	0	5.0	4
Mean	1913.35		−0.178	−0.83			
Corr			−0.081	+0.50			

λ Libræ

				h m s	° ′ ″				
				15 48 6.405	−19 53 55.56				
1911									
June 23	Hd.	EII		+0.010	+0.39	0	---	--	
26	Fn.	EII		-----	+0.97	0	---	--	
30	Hd.	WII		+0.013	+1.31	0	6.0	--	
July 3	Fn.	EII		+0.021	+0.20	0	5.8	--	
10	Fn.	WII		+0.118	+0.45	0	6.5	1½	
1912									
June 10	Hd.–Fn.	EII		-----	−0.24	0	---	3	R.
10	Hd.–Fn.	EII		-----	+0.56	0	---	3	
11	Hd.–Fn.	EII		-----	−0.73	0	---	3	R.
11	Hd.–Fn.	EII		-----	+0.12	0	---	3	
20	Fn.–Hd.	EII		-----	+0.52	0	---	--	
July 2	Fn.–Hd.	EII		-----	+0.40	0	---	--	
3	Hd.–Fn.	WII		-----	−0.94	0	---	--	R.
3	Hd.–Fn.	WII		-----	+0.53	0	---	--	
5	Hd.–Fn.	WII		-----	−0.53	0	---	3	R.
5	Hd.–Fn.	WII		-----	+0.71	0	---	3	
6	Fn.–Hd.	WII		-----	−0.99	0	---	2	R.
6	Fn.–Hd.	WII		-----	+0.70	0	---	2	
8	Fn.–Hd.	WII		-----	+0.76	0	---	2	R.
8	Fn.–Hd.	WII		-----	+0.33	0	---	2	
1915									
May 19	Fn.	EI		+0.065	+0.60	0	6.0	2½	
June 4	An.	WI		+0.053	+0.38	0	6.0	3	
8	Hd.	EI		0.000	+0.72	0	6.5	3	
12	An.	WI		+0.004	+0.77	0	6.5	3	
Mean	1913.46			+0.036	+0.57				
	1912.89								
Corr				−0.081	−0.08				

χ Herculis

			h m s	° ′ ″				
1915								
June 10	Fn.	EI	15 49 34.065	+42 42	-----	0	5.5	2
22	Wy.	EI	34.062		-----	0	5.5	3
25	Wy.	EI	34.106		-----	0	---	3½
July 2	Hd.	WI	34.059		-----	0	---	2
6	Fn.	WI	34.044		-----	0	5.0	2½
9	Fn.	WI	33.977		-----	0	---	2½
1916								
June 12	Wy.	EI	34.061		-----	0	5.0	2½
17	Wy.	WI	34.118		-----	I	3.9	2
23	Hd.	WI	34.070		-----	I	4.4	2
26	Hd.	WI	34.106		-----	I	4.4	2
29	Hd.	WI	34.062		-----	I	4.4	2
July 11	Fn.	EI	34.025		-----	0	5.0	2
17	Hd.	EI	34.062		-----	0	---	2
20	Hd.	EI	34.041		-----	I	4.4	2
1917								
June 22	Fn.	WII	34.110		-----	0	5.0	2½
July 27	*Hd.*	*EII*	*34.082*	-----	-----	*0*	---	*2*
Aug. 6	*Hd.*	*WII*	*34.127*	-----	-----	*0*	---	*2*
9	*Hd.*	*WII*	*34.085*	-----	-----	*0*	---	*2½*
1918								
July 19	Hd.	EII	34.160		-----	I	---	3
Aug. 16	*Hd.*	*WII*	*34.133*	-----	-----	*0*	---	*2*
Mean	1916.31		15 49 34.070	+42 42	-----			
Corr			−0.081		-----			

Piazzi XV 212

			h m s	° ′ ″				
1911								
June 21	T.	EII	15 50 36.568	+20 34	27.81	0	5.5	--
22	Fn.	EII	36.601		27.22	0	5.9	--
28	T.	WII	36.577		27.62	0	6.0	--
29	Fn.	WII	36.567		26.98	0	6.0	2
1915								
May 10	Hd.	EI	36.582		27.52	0	6.0	3
17	Hd.	EI	36.610		27.13	0	6.0	2
June 17	Fn.	WI	36.572		27.84	0	5.5	2½
19	Wy.	WI	36.578		27.57	0	6.0	2½
Mean	1913.45		15 50 36.582	+20 34	27.46			
Corr	-----		−0.081		−0.23			

γ Serpentis

			h m s	° ′ ″				
			15 52 17.798	+15 57 12.50				
1913								
Mar. 11	R.	EII	−0.022		+0.92	I	3.9	2½
29	R.	EII	−0.011		-----	I	---	2½
31	Fn.	EII	+0.032		−0.76	I	3.4	3
Apr. 6	R.	WII	−0.032		−0.08	I	3.9	2
7	Fn.	WII	+0.035		−0.50	I	4.1	2
1914								
Mar. 7	Wy.	EI	−0.041		−0.05	0	---	3
13	Fn.	WI	+0.009		+0.06	I	4.4	2½
24	Fn.	EI	−0.008		−0.47	I	3.9	2½
Apr. 1	Wy.	WI	+0.021		+0.60	I	4.4	3
23	Wy.	EI	+0.018		−0.51	0	---	3
Mean	1913.74		0.000		−0.09			
	1913.79							
Corr			−0.081		−0.22			

Groombridge 2315

			h m s	° ′ ″				
1911								
May 27	T.	EII	15 52 41.36	+83 13	12.80	0	7.5	--
29	Fn.	WII	42.40		11.93	0	---	--
June 1	Fn.	WII	42.08		13.41	0	7.7	--
18	R.	EII	41.69		13.06	0	---	1
1915								
May 19	Fn.	EI	41.84		13.22	0	7.0	2½
June 4	An.	WI	41.92		14.21	0	7.0	3
8	Hd.	EI	41.86		13.12	0	7.5	3
12	An.	WI	42.05		12.47	0	7.5	3
Mean	1913.42		15 52 41.900	+83 13	13.03			
Corr			−0.081		−0.38			

Groombridge 2315 s. p.

			h m s	° ′ ″				
1912								
Oct. 29	R.	EII	15 52 41.44	+83 13	-----	0	8.0	5
Nov. 20	Fn.	EII	41.71		11.74	0	7.5	3½
26	Hd.	WII	41.18		12.36	0	7.5	3½
29	Fn.	WII	41.81		11.94	0	7.9	4
Dec. 12	R.	EII	41.67		12.81	0	8.0	2½
1914								
Feb. 2	Fn.	WI	41.91		12.66	0	8.0	3½
3	Wy.	EI	41.72		11.30	0	8.0	3
4	Hd.	EI	41.84		12.21	0	8.5	3
14	Hd.	WI	41.52		13.02	0	8.0	3
Mean	1913.43		15 52 41.644	+83 13	12.26			
	1913.51							
Corr			−0.081		+0.46			

φ Serpentis

			h m s	° ′ ″				
1913								
Apr. 17	R.	WII	15 53 5.379	+14 40	18.54	0	5.5	2
19	R.	WII	5.353		18.38	0	5.5	2½
22	Fn.	EII	5.390		19.23	0	6.3	2½
24	Hd.	EII	5.372		19.30	0	6.0	1
1914								
Apr. 30	Wy.	WI	5.302		19.41	0	5.0	3
May 2	Fn.	WI	5.382		19.83	0	6.0	2½
22	Wy.	EI	5.337		18.70	0	---	3
25	Fn.	EI	5.330		18.93	0	6.5	2½
Mean	1913.83		15 53 5.356	+14 40	19.04			
Corr			−0.081		−0.22			

π Scorpii

			h m s	° ′ ″				
			15 53 24.275	−25 51 20.39				
1911								
May 20	T.	WII	+0.047		+0.03	0	---	--
22	Fn.	WII	+0.091		−0.18	I	3.7	--
24	T.	EII	+0.094		−0.24	I	4.4	--
25	Fn.	EII	+0.059		−0.01	I	4.7	--

1915				s	"				
June	9	An.	EI	+0.035	[−2.35][1]	I	...		3½
	10	Fn.	EI	+0.061	−0.93	0	...		3
	17	Fn.	WI	−0.003	−0.32	I	3.4		3
	18	Hd.	WI	+0.059	−0.09	I	3.9		3
Mean		1913.42		+0.055	−0.25				
		1913.13							
Corr				−0.081	−0.02				

ϵ Coronæ Borealis

h m s ° ′ ″
15 53 51.608 +27 8 16.43

1913									
Apr.	25	Fn.	EII	+0.069	+0.31	I	3.9		1½
	29	Fn.	EII	+0.046	+0.29	I	4.3		2½
May	24	R.	WII	+0.079	−0.33	I	3.9		2
	28	R.	WII	+0.020	+0.40	I	3.9		3
1914									
May	6	Fn.	WI	+0.093	+0.43	0	5.0		2
	15	Wy.	WI	+0.051	0.00	0	5.0		3
	26	Wy.	EI	+0.030	−0.36	I	3.8		2½
	28	Fn.	EI	+0.061	−0.49	0	...		2
Mean		1913.87		+0.056	+0.03				
Corr				−0.081	−0.24				

Radcliffe 1890, 4132

h m s ° ′ ″

1912									
May	24	Hd.	EII	15 54 59.397	−5 52 17.57	0	7.5		2
	26	Hd.	EII	59.346	17.37	0	7.0		2
	28	Hd.	WII	59.366	17.68	0	7.0		2
	30	Fn.	WII	59.337	17.37	0	7.5		3
1915									
May	8	Hd.	EI	59.379	17.24	0	7.5		2½
	9	Wy.	EI	59.355	17.13	0	7.5		3
July	2	Hd.	WI	59.368	17.37	0	...		2
	5	Hd.	WI	59.367	17.66	0	7.8		2
Mean		1913.92		15 54 59.364	−5 52 17.42				
Corr				−0.081	−0.16				

δ Scorpii

h m s ° ′ ″
15 55 0.532 −22 21 58.42

1911				s	′ ″				
June	21	T.	EII	+0.042	−1.26	I	2.4		..
	22	Fn.	EII	+0.055	−0.73	I	3.2		..
	27	Hd.	WII	+0.056	+0.65	I	...		..
	28	T.	WII	+0.056	−0.38	I	2.4		..
	29	Fn.	WII	+0.053	+0.23	I	2.1		..
	30	Hd.	WII	+0.053	+0.21	I	2.7		..
July	1	R.	WII	+0.077	+0.31	I	3.4		..
	3	Fn.	EII	+0.042	−0.61	I	3.2		..
	5	R.	EII	+0.090	−1.89	I	2.4		3
	6	Fn.	EII	+0.041	−0.30	I	3.1		..
	9	R.	EII	+0.034	+0.09	I	2.4		3
	10	Fn.	WII	+0.057	+0.05	I	2.7		2½
	12	R.	WII	+0.041	+0.71	0	...		4
	14	Hd.	WII	+0.055	−0.05	I	2.9		3
	15	R.	WII	+0.066	−0.26	I	2.4		2
	17	Fn.	EII	+0.057	−0.01	I	2.8		3
	19	R.	EII	+0.053	−1.42	0	...		2½
1912									
Jan.	*19*	*Hd.*	*WII*	.....	*+0.26*	*+0.28*	*0*	...	*3*
May	25	R.	EII	+0.053	−0.24	I	2.4		4
	27	Fn.	EII	+0.079	...	I	2.3		3
June	3	Fn.	WII	+0.070	−0.27	I	2.5		2½
	5	R.	EII	+0.062	....	0	...		..
1913									
Jan.	*13*	*R.*	*WII*	*−0.022*	*+0.71*	*+0.79*	*0*	...	*3½*
	14	*Fn.*	*WII*	*+0.086*	*+0.18*	*+0.22*	*0*	...	*3½*
Mar.	18	R.	WII	+0.026	−1.66	II	2.6		3
Apr.	1	R.	EII	+0.053	....	I	2.9		3½
	20	R.	WII	+0.053	+0.31	I	2.9		2

1913				s	"	"			
June	6	Fn.	WII	+0.071		−1.08	I	2.6	3½
	9	Hd.	WII	+0.080		+0.48	II	3.1	3½
	10	R.	WII	+0.037		−0.34	II	2.6	2
	12	Hd.	EII	+0.048		−0.34	I	...	3
	13	Fn.	EII	+0.071		+0.25	I	3.4	3½
	17	Fn.	EII	+0.013		−0.27	I	3.2	3½
	18	R.	EII	+0.075		+0.14	II	3.1	3
	26	Hd.	EII	+0.028		+0.78	I	...	2
	30	Hd.	EII	+0.051		+0.19	I	2.9	2½
July	1	Fn.	EII	+0.050		−0.15	I	2.9	2½
	7	Hd.	WII	+0.021		+0.60	I	2.9	3½
	8	Fn.	WII	+0.090		−0.45	I	2.7	3
1914									
Jan.	*12*	*Wy.*	*EI*	*+0.018*	*+0.82*	*+0.99*	*0*	...	..
Feb.	26	Hd.	EI	+0.017		−0.56	I	2.9	3½
	27	Fn.	EI	+0.023		+0.11	I	3.9	3
Mar.	3	Fn.	WI	+0.043		+0.11	I	2.4	3½
	14	Wy.	WI	+0.080		−0.88	0	...	3½
June	16	Hd.	EI	+0.056		−0.22	I	2.9	3
	17	Wy.	EI	+0.111		.....	I	3.4	3
	23	Hd.	WI	+0.069		.....	I	3.4	3
	24	Wy.	WI	+0.083		.....	I	3.4	3
	29	Fn.	WI	+0.068		+0.85	I	2.9	3½
	30	Hd.	WI	+0.051		+0.06	I	2.9	3
July	2	Fn.	WI	+0.021		−0.33	I	3.4	3
	3	Hd.	WI	+0.063		+0.46	I	...	2½
	8	Fn.	WI	+0.040		+0.13	I	2.9	2½
	9	Hd.	WI	+0.061		−0.10	I	2.9	2
	10	Fn.	WI	+0.049		−0.05	0	...	3
	18	Hd.	EI	+0.073		+0.99	I	3.1	3
Oct.	*22*	*Hd.*	*EI*	*+0.126*	.....	.....	*0*	...	*4*
1915									
Jan.	*4*	*Wy.*	*EI*	*−0.049*	*+0.07*	*−0.10*	*0*	...	*3½*
	7	*Wy.*	*EI*	*+0.011*	*+0.18*	*+0.26*	*0*	...	*3½*
	8	*An.*	*EI*	*−0.014*	.....	.....	*0*	...	*3*
	13	*Hd.*	*WI*	*+0.109*	*−0.76*	*−0.64*	*0*	...	*3*
	14	*Fn.*	*WI*	*+0.060*	*+1.16*	*+1.32*	*0*	...	*3½*
	20	*Wy.*	*EI*	*+0.071*	*+1.59*	*+1.65*	*0*	...	*3½*
June	20	An.	EI	+0.015		.....	I	...	3½
	24	Fn.	EI	.....		−0.34	I	2.9	2½
	25	Wy.	EI	+0.034		+0.42	I	3.4	3½
	27	Hd.	EI	+0.032		+0.42	I	3.4	3½
	28	Wy.	EI	+0.071		.....	II	3.1	3
July	11	Fn.	WI	+0.058		+0.41	I	2.9	3½
	14	An.	WI	+0.056		.....	II	3.6	3
	16	Fn.	WI	+0.086		+0.11	0	...	3½
	17	An.	WI	−0.020		−0.07	0	...	3½
1916									
Jan.	*2*	*Hd.*	*EI*	*+0.082*	*−0.13*	*+0.04*	*0*	...	*3½*
	3	*Fn.*	*EI*	*+0.022*	*−0.10*	*−0.14*	*0*	...	*3½*
	7	*Hd.*	*EI*	*+0.061*	*+0.49*	*+0.75*	*0*	...	*3*
	18	*Fn.*	*EI*	*+0.106*	*−0.15*	*+0.02*	*0*	...	*4*
June	1	Fn.	EI	+0.070		+0.67	I	3.4	3
	12	Wy.	EI	+0.093		+0.21	I	...	3½
	13	Fn.	EI	+0.097		+0.44	I	3.4	3
	17	Wy.	WI	+0.060		+0.05	I	2.9	2½
	22	Fn.	WI	+0.057		+0.05	I	2.4	3
	29	Hd.	WI	+0.050		+0.77	I	2.9	2½
July	6	Wy.	EI	+0.088		+0.49	I	2.9	3
	7	Fn.	EI	+0.091		−0.10	I	3.4	3
	11	Fn.	EI	+0.075		+0.51	I	2.9	3
	14	Fn.	EI	+0.084		−0.09	I	2.4	3
	18	Wy.	EI	+0.091		+0.22	I	2.9	2½
	20	Hd.	EI	+0.064		.....	I	...	..
	21	Wy.	EI	+0.063		+0.33	I	...	3½
	27	*Fn.*	*WI*	*+0.098*	*+0.16*	*+0.23*	*0*	...	*3½*
Aug.	*1*	*Fn.*	*WI*	*+0.052*	*+0.22*	*+0.25*	*0*	...	*3*
	4	*Fn.*	*WI*	*+0.070*	*−0.48*	*−0.55*	*0*	...	*3½*
	7	*Wy.*	*EI*	*+0.059*	*−0.61*	*−0.48*	*I*	...	*3½*
	24	*Wy.*	*WI*	*+0.071*	*−0.09*	*−0.07*	*0*	...	*3*
Sept.	*5*	*Wy.*	*WI*	*+0.055*	*−0.90*	*−0.76*	*0*	...	*3½*
	22	*Hd.*	*EI*	*+0.093*	*−0.28*	*−0.21*	*0*	...	*3*
Oct.	*6*	*Wy.*	*WI*	*+0.084*	*−0.81*	*−0.73*	*0*	...	*4*
	12	*Hd.*	*WI*	*+0.080*	*−1.03*	*−0.81*	*0*	...	*3*
1917									
Jan.	*18*	*Hd.*	*EI*	*+0.076*	*−0.53*	*−0.51*	*0*	...	*3½*
June	19	Fn.	WII	+0.003		+0.41	I	2.9	3

[1] Micrometer readings doubtful.

			s	″	″			
1917								
June 22	Fn.	WII	+0.031		+0.20	I	2.9	3½
25	Wy.	WII	+0.046		−0.49	I	3.4	3
26	Hd.	WII	+0.045		+0.35	I	---	3
July 27	*Hd.*	*EII*	*+0.067*	*+0.25*	*+0.35*	*I*	*---*	*3*
31	*Fn.*	*EII*	*+0.099*	*+0.36*	*+0.44*	*I*	*---*	*3*
Aug. 3	*Fn.*	*WII*	*+0.071*	*+1.54*	*+1.54*	*0*	*---*	*3*
6	*Hd.*	*WII*	*+0.096*	*−0.22*	*−0.12*	*I*	*---*	*2½*
9	*Hd.*	*WII*	*+0.061*	*+0.39*	*+0.43*	*I*	*---*	*3*
10	*Wy.*	*WII*	*+0.020*	*+0.75*	*+0.72*	*I*	*---*	*3½*
Sept. 17	*Hd.*	*EII*	*+0.039*	*−0.69*	*−0.42*	*0*	*---*	*3*
20	*Hd.*	*WII*	*+0.076*	*+0.12*	*+0.41*	*0*	*---*	*3½*
1918								
Jan. 7	*Hd.*	*EII*	*−0.023*	*−0.08*	*+0.04*	*0*	*---*	*3½*
July 2	Hd.	WII	+0.015		+0.11	I	2.4	3
16	Hd.	EII	+0.051		+0.77	I	3.4	3
Aug. 15	*Fn.*	*WII*	*0.000*	*+0.08*	*+0.13*	*0*	*---*	*3*
16	*Hd.*	*WII*	*+0.056*	*−1.10*	*−1.03*	*0*	*---*	*3*
Mean	1914.21		+0.055		0.00			
	1914.20							
Corr			−0.081		−0.06			

49 Libræ

			h	m	s	°	′	″			
1913											
May 3	R.	EII	15	55	16.320	−16	16	9.77	0	6.0	3
5	Hd.	EII			16.297			8.99	0	6.0	3
31	R.	WII			16.290			10.06	0	6.0	3½
June 2	Hd.	WII			16.277			8.89	0	6.0	3
1914											
May 16	Fn.	WI			16.237			10.81	0	6.0	2½
18	Fn.	WI			16.201			9.44	0	5.5	3
June 2	Fn.	EI			16.298			9.79	0	6.0	3
6	Wy.	EI			16.279			9.39	0	5.5	2½
Mean	1913.89		15	55	16.275	−16	16	9.64			
Corr					−0.081			−0.11			

66 H¹. Draconis

			h	m	s	°	′	″			
1913											
May 8	Hd.	EII	15	55	39.189	+55	0	14.03	I	4.9	2
10	R.	EII			39.145			13.57	0	5.0	2½
June 4	R.	WII			39.139			13.82	0	5.5	2½
5	Hd.	WII			39.123			13.95	I	4.9	2
1914											
May 19	Wy.	WI			39.190			13.86	0	5.5	6
20	Hd.	WI			39.147			14.69	0	6.0	3
June 13	Wy.	EI			39.149			13.74	I	4.9	2
15	Fn.	EI			39.118			14.45	0	5.5	2
Mean	1913.90		15	55	39.150	+55	0	14.01			
Corr					−0.081			−0.30			

Bradley 2031

			h	m	s	°	′	″			
1912											
May 27	Fn.	EII	15	56	23.049	+4	40	43.30	0	---	2
30	Fn.	WII			23.019			43.46	0	5.8	2½
31	Hd.	WII			23.056			43.65	0	5.8	2
June 5	R.	EII			23.078			43.61	0	---	1
1915											
May 19	Fn.	EI			23.052			43.68	0	5.5	2½
June 4	An.	WI			22.998			43.87	0	5.5	3
9	An.	EI			23.037			43.73	0	---	3½
17	Fn.	WI			23.001			43.57	0	6.0	2½
Mean	1913.92		15	56	23.036	+4	40	43.61			
Corr					−0.081			−0.19			

Cape 1880, 8712

			h	m	s	°	′	″			
1913											
Apr. 17	R.	WII	15	57	4.901	−28	53	5.57	0	7.0	3½
19	R.	WII			4.863			7.40	0	7.5	3
25	Fn.	EII			4.803			5.97	0	7.0	3
30	R.	EII			4.825			5.52	0	7.0	5
May 1	Hd.	EII			4.840			5.49	0	6.5	3½
1914											
May 21	Fn.	WI			4.831			5.02	0	---	3½
26	Wy.	EI			4.802			5.48	0	7.5	3½
June 11	Fn.	EI			4.848			5.60	0	7.0	3
23	Hd.	WI			4.806			4.83	0	8.0	3
24	Wy.	WI			4.829			5.91	0	7.0	3
Mean	1913.88		15	57	4.835	−28	53	5.68			
Corr					−0.081			+0.01			

B. D.+31° 2805

			h	m	s	°	′	″			
1913											
Mar. 11	R.	EII	15	57	9.577	+31	49	20.00	0	6.5	2½
22	R.	WII			9.584			19.67	0	---	1
Apr. 1	R.	EII			9.583			19.53	0	7.0	2½
6	R.	WII			9.577			19.43	0	7.0	2
1914											
Apr. 23	Wy.	EI			9.631			18.92	0	---	2½
27	Wy.	EI			9.597			19.72	0	6.5	1½
30	Wy.	WI			9.555			20.03	0	6.5	2
May 2	Fn.	WI			9.631			19.61	0	6.5	2½
6	Fn.	WI			9.646			20.51	0	6.5	2
22	Wy.	EI			9.630			19.38	0	7.5	3
Mean	1913.89		15	57	9.601	+31	49	19.68			
Corr					−0.081			−0.25			

Piazzi XV 237

			h	m	s	°	′	″			
1911											
May 20	T.	WII	15	57	54.165	−25	36	53.73	0	---	--
22	Fn.	WII			54.134			54.41	0	5.9	--
24	T.	EII			54.220			53.96	0	---	--
25	Fn.	EII			54.136			54.82	0	---	--
1915											
June 10	Fn.	EI			54.113			53.49	0	---	3
20	An.	EI			54.110			53.41	0	6.5	3½
July 2	Hd.	WI			54.149			54.28	0	6.5	3
9	Fn.	WI			54.188			54.39	0	---	3½
Mean	1913.44		15	57	54.152	−25	36	54.06			
Corr					−0.081			−0.02			

Piazzi XV 266

			h	m	s	°	′	″			
1911											
May 27	T.	EII	16	0	0.820	+36	52	45.59	0	6.5	--
29	Fn.	WII			0.821			46.34	0	---	--
June 1	Fn.	WII			0.768			45.96	0	6.6	--
11	R.	EII			0.713			46.15	0	---	--
1915											
May 8	Hd.	EI			0.825			46.79	0	6.5	3
9	Wy.	EI			0.833			46.22	I	5.4	3
June 17	Fn.	WI			0.780			46.07	0	6.0	2
18	Hd.	WI			0.821			45.97	0	---	2
Mean	1913.41		16	0	0.798	+36	52	46.14			
Corr					−0.081			−0.26			

θ Draconis

			h	m	s	°	′	″			
			16	0	11.978	+58	48	20.72			
1913											
May 3	R.	EII			−0.104			−0.08	I	4.4	3
5	Hd.	EII			−0.061			+0.33	I	3.9	3
24	R.	WII			−0.115			+0.04	I	3.9	3
28	R.	WII			−0.084			−0.03	I	3.9	3
1914											
Mar. 20	Fn.	EI			−0.094			−0.23	I	3.8	2
24	Fn.	EI			−0.118			−0.68	I	4.4	2
Apr. 1	Wy.	WI			−0.125			−0.62	0	4.5	3
9	Fn.	WI			−0.084			+0.72	I	3.9	1½
Mean	1913.81				−0.098			−0.07			
Corr					−0.081			−0.32			

β Scorpii [1]

			h m s	° ′ ″				
			16 0 12.053	−19 33 34.95				
1911			s	″	″			
June 18	R.	EII	+0.120		−1.28	I	___	1
21	T.	EII	+0.082		−0.52	I	2.9	__
22	Fn.	EII	+0.046		−0.83	I	2.8	__
27	Hd.	WII	+0.084		+0.45	0	___	3
28	T.	WII	+0.075		+0.29	I	2.4	__
29	Fn.	WII	+0.028		−0.19	I	2.1	__
30	Hd.	WII	+0.070		+0.79	I	2.7	__
July 1	R.	WII	+0.100		−0.03	I	3.9	__
3	Fn.	EII	+0.075		−0.71	I	___	__
5	R.	EII	−0.009		−1.58	I	2.4	__
10	Fn.	WII	+0.091		+0.18	0	___	__
12	R.	WII	+0.068		−0.94	0	___	4
14	Hd.	WII	+0.090		+0.25	I	2.7	3
15	R.	WII	+0.112		+0.13	I	2.4	__
17	Fn.	EII	+0.092		−1.22	I	3.2	3
19	R.	EII	+0.047		−0.77	0	___	3
1912								
Jan. 19	*Hd.*	*WII*	-----	*+0.32*	*+0.32*	*0*	___	__
Feb. 7	*Fn.*	*EII*	*+0.070*	*−1.50*	*−1.46*	*0*	___	*3*
May 25	R.	EII	+0.060		−0.02	I	___	5
June 3	Fn.	WII	+0.070		−0.85	I	2.9	2½
10	Hd.–Fn.	EII	-----		−1.58	I	___	4 R.
10	Hd.–Fn.	EII	-----		+0.11	I	___	4
11	Hd.–Fn.	EII	-----		−1.72	I	___	__ R.
11	Hd.–Fn.	EII	-----		−0.72	I	___	__
13	Fn.–Hd.	EII	-----		−2.04	0	___	2 R.
13	Fn.–Hd.	EII	-----		−0.41	0	___	2
20	Fn.–Hd.	EII	-----		−1.41	I	___	__ R.
20	Fn.–Hd.	EII	-----		−0.41	I	___	__
July 2	Fn.–Hd.	EII	-----		−0.94	I	___	2 R.
2	Fn.–Hd.	EII	-----		−0.29	I	___	2
3	Hd.–Fn.	WII	-----		−1.04	I	___	2 R.
3	Hd.–Fn.	WII	-----		−0.20	I	___	2
5	Hd.–Fn.	WII	-----		−0.64	I	___	5 R.
5	Hd.–Fn.	WII	-----		−0.69	I	___	5
6	Fn.–Hd.	WII	-----		−1.02	I	___	__ R.
6	Fn.–Hd.	WII	-----		−0.04	I	___	__
8	Fn.–Hd.	WII	-----		+0.47	I	___	2 R.
8	Fn.–Hd.	WII	-----		−0.89	I	___	2
1913								
Jan. 27	*R.*	*EII*	*+0.058*	*−0.03*	*−0.22*	*0*	___	*3*
Mar. 18	R.	WII	+0.035		----	II	3.1	2½
29	R.	EII	+0.059		----	I	___	2
Apr. 20	R.	WII	+0.054		----	I	3.4	2
May 31	R.	WII	+0.112		−0.15	I	2.9	3½
June 2	Hd.	WII	+0.073		+0.30	I	2.9	3
4	R.	WII	+0.050		+0.01	I	3.4	3½
6	Fn.	WII	+0.049		−1.04	I	2.9	3½
9	Hd.	WII	+0.073		+0.78	I	2.9	3
10	R.	WII	+0.078		−0.95	II	2.6	2½
12	Hd.	EII	+0.069		−0.32	I	___	3
13	Fn.	EII	+0.088		−0.34	I	3.6	3½
17	Fn.	EII	+0.080		−0.19	I	3.4	3½
18	R.	EII	+0.098		+0.31	I	2.9	3
26	Hd.	EII	+0.058		−0.14	I	___	2½
30	Hd.	EII	+0.095		−0.25	II	3.1	2
July 1	Fn.	EII	+0.103		−0.80	I	3.3	2½
7	Hd.	WII	+0.043		+0.12	I	2.9	3½
8	Fn.	WII	+0.098		+0.71	I	2.9	3
1914								
Jan. 12	*Wy.*	*EI*	*+0.056*	*−0.45*	*−0.30*	*0*	___	__
Feb. 7	*Wy.*	*EI*	*+0.047*	*−1.19*	*−1.15*	*I*	___	*3*
Feb. 26	Hd.	EI	+0.085		----	I	___	3½
27	Fn.	EI	+0.093		----	I	3.4	3
Mar. 3	Fn.	WI	+0.078		−0.06	I	___	3½
7	Wy.	EI	+0.092		−0.36	0	___	3½
13	Fn.	WI	+0.129		−0.87	I	2.9	2½
14	Wy.	WI	+0.080		−0.27	0	___	3½
May 16	Fn.	WI	+0.093		----	I	2.9	2½
18	Fn.	WI	+0.074		----	I	2.4	3
19	Wy.	WI	+0.111		----	I	___	3
June 11	Fn.	EI	+0.067		−0.35	I	2.9	2½
13	Wy.	EI	+0.106		----	I	2.9	3
1914			s	″	″			
June 15	Fn.	EI	+0.117		−0.40	I	2.9	3½
16	Hd.	EI	+0.100		+0.13	I	2.9	3
17	Wy.	EI	+0.100		+0.65	II	3.1	3
20	Wy.	WI	+0.075		−0.32	0	___	3
29	Fn.	WI	+0.058		+0.61	I	3.4	2½
30	Hd.	WI	+0.073		+0.20	I	___	3½
July 2	Fn.	WI	+0.068		−0.88	I	2.8	3
8	Fn.	WI	+0.082		−1.24	I	2.9	2½
9	Hd.	WI	+0.045		−0.38	II	3.1	2½
18	Hd.	EI	+0.116		+0.34	I	2.9	2
1915								
Jan. 4	*Wy.*	*EI*	-----	*−0.51*	*−0.63*	*0*	___	*3½*
7	*Wy.*	*EI*	*+0.037*	----	----	*0*	___	*3½*
8	*An.*	*EI*	*+0.018*	*−0.14*	*+0.04*	*0*	___	*3*
13	*Hd.*	*WI*	*+0.121*	*−0.35*	*−0.23*	*0*	___	*3*
14	*Fn.*	*WI*	*+0.079*	*−1.05*	*−0.90*	*0*	___	*3½*
20	*Wy.*	*EI*	*+0.072*	*+1.02*	*+1.06*	*0*	___	*3½*
May 19	Fn.	EI	+0.124		+0.08	I	2.9	3
31	Wy.	WI	+0.061		+0.15	I	3.4	3
June 24	Fn.	EI	+0.081		−0.27	I	2.9	2½
25	Wy.	EI	+0.080		−1.43	I	3.9	4
27	Hd.	EI	+0.072		+0.17	I	3.4	3
28	Wy.	EI	+0.085		----	II	3.1	3
July 5	Hd.	WI	+0.118		−0.56	I	3.4	2½
6	Fn.	WI	+0.093		−0.91	I	3.4	3
11	Fn.	WI	+0.093		−0.57	I	2.9	3½
22	Fn.	EI	+0.062		+0.21	I	3.9	3
23	Hd.	EI	+0.086		−0.44	I	2.9	2½
1916								
Jan. 2	*Hd.*	*EI*	*+0.111*	*+0.33*	*+0.50*	*0*	___	*3*
3	*Fn.*	*EI*	*+0.050*	*+0.29*	*+0.37*	*0*	___	*3½*
18	*Fn.*	*EI*	*+0.083*	----	----	*0*	___	*4*
Mean		1913.57	+0.080		−0.29			
		1913.34						
Corr			−0.081		−0.08			

Radcliffe 1845, 3498

			h m s	° ′ ″				
1912								
May 27	Fn.	EII	16 1 31.021	+59 39 27.32		0	6.3	1½
31	Hd.	WII	31.085		27.53	0	6.0	2
June 1	R.	WII	31.071		27.28	0	6.0	1
8	R.	EII	31.023		27.47	0	6.0	1
1915								
May 10	Hd.	EI	31.040		26.82	0	6.5	3
17	Hd.	EI	31.084		26.96	0	6.5	2½
June 4	An.	WI	31.058		27.44	0	6.0	2
July 2	Hd.	WI	31.023		27.66	0	7.0	2
Mean	1913.92		16 1 31.051	+59 39 27.31				
Corr			−0.081		−0.32			

Bradley 2042

			h m s	° ′ ″				
1913								
Mar. 11	R.	EII	16 2 36.389	−12 30 13.63		0	6.0	2½
18	R.	WII	36.417		14.98	0	6.0	2
29	R.	EII	36.442		14.47	0	___	2½
Apr. 6	R.	WII	36.397		14.71	0	6.0	2
1914								
Mar. 26	Hd.	EI	36.386		14.68	0	6.5	3
Apr. 27	Wy.	EI	36.441		14.59	0	6.0	2½
30	Wy.	WI	36.442		14.43	0	6.0	3
May 2	Fn.	WI	36.464		14.94	0	6.0	3½
Mean	1913.76		16 2 36.422	−12 30 14.55				
Corr			−0.081		−0.12			

Lalande 29345

			h m s	° ′ ″				
1913								
Mar. 31	Fn.	EII	16 3 21.077	−23 26 45.77		0	6.6	3½
Apr. 1	R.	EII	21.090		46.28	0	6.5	3½
7	Fn.	WII	21.087		44.90	0	6.5	3½
17	R.	WII	21.108		45.17	0	7.0	3

[1] Double; s. pr. component observed.

				h	m	s	°	′	″			
1914												
May	6	Fn.	WI			21.092			46.12	0	7.0	3½
	11	Hd.	WI			21.047			44.74	0	---	3½
	26	Wy.	EI			21.083			45.35	0	7.5	3
June	2	Fn.	EI			21.085			44.92	0	6.0	2½
Mean		1913.82		16	3	21.084	−23	26	45.41			
Corr						−0.081			−0.05			

κ Herculis

				h	m	s	°	′	″			
				16	4	0.687	+17	17	9.46			
1913												
Apr.	19	R.	WII			+0.060			+0.35	0	5.5	2½
	20	R.	WII			+0.053			+0.01	0	6.0	1½
	22	Fn.	EII			+0.079			+0.54	0	5.6	2
	25	Fn.	EII			+0.095			+1.21	0	5.3	1½
1914												
May	16	Fn.	WI			+0.117			+0.80	0	5.0	2
	18	Fn.	WI			+0.099			+0.41	0	5.0	2
	19	Wy.	WI			+0.117			+0.74	0	5.5	3
June	5	Fn.	EI			+0.105			+0.26	0	5.5	2
	6	Wy.	EI			+0.066			+1.14	I	5.4	2
Mean		1913.91				+0.088			+0.61			
Corr						−0.081			−0.22			

B. D.+6° 3169

				h	m	s	°	′	″			
1913												
May	1	Hd.	EII	16	4	45.321	+6	38	1.38	0	6.0	3
	2	Fn.	EII			45.324			2.89	0	6.7	3½
	20	Fn.	WII			45.269			1.58	0	6.5	3
	31	R.	WII			45.276			2.07	0	6.0	3
1914												
May	20	Hd.	WI			45.296			1.25	0	6.5	3
	21	Fn.	WI			45.336			1.26	0	6.5	3
	22	Wy.	EI			45.323			1.15	0	6.5	3
	25	Fn.	EI			45.324			0.90	0	6.5	3
Mean		1913.88		16	4	45.309	+6	38	1.56			
Corr						−0.081			−0.20			

Weisse$_2$ XVI 82

				h	m	s	°	′	″			
1913												
Apr.	29	Fn.	EII	16	5	10.545	+45	37	4.36	0	7.0	2½
	30	R.	EII			10.547			4.75	0	7.0	2½
May	24	R.	WII			10.515			4.67	0	7.5	3
	28	R.	WII			10.469			4.69	0	6.5	3½
1914												
June	16	Hd.	EI			10.511			5.42	0	7.0	2
	17	Wy.	EI			10.507			5.18	0	6.5	2½
	20	Wy.	WI			10.484			4.87	0	---	2½
	23	Hd.	WI			10.492			3.85	0	---	2½
Mean		1913.92		16	5	10.509	+45	37	4.72			
Corr						−0.081			−0.28			

τ Coronæ Borealis

				h	m	s	°	′	″			
1915												
June	25	Wy.	EI	16	5	40.824	+36	43	-----	0	---	3
July	23	Hd.	EI			40.783			-----	I	4.4	1
1916												
June	29	Hd.	WI			40.824			-----	I	4.4	2
July	6	Wy.	EI			40.814			-----	I	4.4	2
Aug.	*3*	*Hd.*	*WI*			*40.813*	-----		-----	*0*	---	*3*
1917												
June	22	Fn.	WII			40.827			-----	0	5.0	2½
Aug.	*9*	*Hd.*	*WII*			*40.801*	-----		-----	*0*	---	*2*
Mean		1916.30		16	5	40.814	+36	43	-----			
Corr						−0.081			-----			

φ Herculis

				h	m	s	°	′	″			
				16	5	56.028	+45	10	13.92			
1911												
May	20	T.	WII			−0.010			----	0	---	2
	22	Fn.	WII			+0.006			+0.11	I	4.4	--
	24	T.	EII			−0.044			−0.34	0	---	--
	25	Fn.	EII			−0.048			−0.10	I	---	--
July	10	Fn.	WII			−0.048			+0.36	0	5.5	--
1915												
May	19	Fn.	EI			−0.017			−0.35	0	5.0	2
	31	Wy.	WI			−0.031			+0.84	0	---	2½
June	4	An.	WI			−0.033			+0.04	I	5.4	2
	8	Hd.	EI			+0.009			−0.09	I	4.9	2½
	22	Wy.	EI			−0.023			----	0	---	3
July	6	Fn.	WI			−0.033			----	I	4.4	2½
	9	Fn.	WI			−0.075			----	0	5.0	2½
	27	Hd.	EI			−0.009			----	0	---	2½
1916												
June	12	Wy.	EI			−0.054			----	I	4.4	2
	17	Wy.	WI			−0.013			----	I	3.9	2
July	3	Wy.	WI			+0.008			----	0	---	3
	11	Fn.	EI			−0.043			----	0	5.0	2½
1917												
Aug.	*6*	*Hd.*	*WII*			*+0.008*	----		----	*I*	---	*2*
1918												
July	16	Hd.	EII			−0.051			----	I	4.4	2
Mean		1914.74				−0.028			+0.06			
		1913.42										
Corr						−0.081			−0.28			

Groombridge 2320

				h	m	s	°	′	″			
				16	6	4.377	+68	2	49.74			
1913												
May	3	R.	EII			+0.02			+0.18	0	6.0	3
	5	Hd.	EII			+0.10			−0.07	0	6.0	2
June	4	R.	WII			−0.04			+1.03	0	6.0	2
	6	Fn.	WII			+0.02			+1.14	0	5.5	2
1914												
May	2	Fn.	WI			+0.03			+1.24	0	6.0	2½
	15	Wy.	WI			+0.05			+1.20	0	6.0	3
	28	Fn.	EI			+0.12			+0.91	0	6.0	2
June	11	Fn.	EI			+0.08			+0.95	0	6.0	2
Mean		1913.88				+0.048			+0.82			
Corr						−0.081			−0.34			

Groombridge 2320 s. p.

				h	m	s	°	′	″			
				16	6	4.380	+68	2	49.72			
1912												
Dec.	30	Fn.	WII			+0.02			−0.51	0	---	4½
1913												
Jan.	4	Hd.	WII			−0.01			+0.60	0	6.0	4
	18	Hd.	EII			−0.08			−0.08	0	---	4
	21	Hd.	EII			+0.06			+0.16	0	6.0	3½
Dec.	19	R.	WI			+0.09			+0.12	0	6.0	2
	20	Hd.	WI			+0.02			−1.70	0	---	5
1914												
Jan.	5	R.	EI			+0.05			+0.91	0	--	4½
	6	Fn.	EI			+0.08			−0.52	0	6.0	3½
Mean		1913.51				+0.029			−0.13			
Corr						−0.081			+0.66			

Weisse$_2$ XVI 117

				h	m	s	°	′	″			
1912												
May	24	Hd.	EII	16	6	15.455	+41	19	46.25	0	6.5	2
	25	R.	EII			15.480			46.52	0	7.5	2
	28	Hd.	WII			15.524			46.03	0	6.5	2
	30	Fn.	WII			15.485			46.98	0	---	2½

				h m s	° ′ ″				
1915									
May 8	Hd.	EI		15.405		46.52	0	7.0	2
9	Wy.	EI		15.442		46.05	0	6.5	2½
June 17	Fn.	WI		15.442		45.55	0	6.5	2
18	Hd.	WI		15.406		46.28	0	7.0	2
Mean	1913.90		16	6 15.455	+41 19 46.27				
Corr				−0.081		−0.27			

Weisse$_2$ XVI 102

				h m s	° ′ ″				
1912									
May 27	Fn.	EII	16	6 21.207	+26 58 36.36		0	6.6	1½
31	Hd.	WII		21.237		36.22	0	6.5	2
June 1	R.	WII		21.262		35.89	0	7.0	1
5	R.	EII		21.235		35.99	0	---	1
1915									
May 10	Hd.	EI		21.236		35.93	0	7.0	3
17	Hd.	EI		21.207		36.24	0	7.0	2
June 19	Wy.	WI		21.241		36.21	0	6.5	2½
July 2	Hd.	WI		21.226		36.42	0	7.5	2½
Mean	1913.92		16	6 21.231	+26 58 36.16				
Corr				−0.081		−0.24			

Weisse$_1$ XVI 102

				h m s	° ′ ″				
1913									
Mar. 11	R.	EII	16	8 59.738	−1 14 46.62		0	7.0	2
Apr. 1	R.	EII		59.743		47.35	0	6.5	3½
6	R.	WII		59.764		47.20	0	6.5	2
17	R.	WII		59.791		47.21	0	7.0	2½
1914									
Mar. 24	Fn.	EI		59.750		47.37	0	7.0	2½
26	Hd.	EI		59.739		47.27	0	7.0	3
Apr. 30	Wy.	WI		59.760		46.80	0	6.5	2
May 6	Fn.	WI		59.802		47.33	0	7.0	3
Mean	1913.76		16	8 59.761	−1 14 47.14				
Corr				−0.081		−0.18			

δ Ophiuchi

				h m s	° ′ ″				
			16	9 37.654	−3 27 47.88				
1911				s	″	″			
June 18	R.	EII		+0.064		----	0	---	1
21	T.	EII		+0.036		−0.58	I	2.4	--
22	Fn.	EII		+0.030		−0.92	I	3.0	--
26	Fn.	EII		+0.022		−0.52	0	---	--
27	Hd.	WII		+0.031		−0.26	I	2.9	--
28	T.	WII		+0.042		+0.09	I	1.9	--
29	Fn.	WII		+0.079		−0.52	I	2.7	--
30	Hd.	WII		+0.025		−0.68	I	2.4	--
July 1	R.	WII		+0.034		−0.40	I	1.4	--
3	Fn.	EII		+0.044		−0.65	I	2.4	--
5	R.	EII		+0.089		−0.69	I	3.4	3
6	Fn.	EII		+0.035		----	I	2.7	--
9	R.	EII		+0.044		----	I	2.4	2
12	R.	WII		+0.025		−0.61	0	---	3
14	Hd.	WII		+0.014		−0.31	I	2.9	2
15	R.	WII		+0.017		−0.94	I	1.9	1
17	Fn.	EII		+0.019		−0.49	I	2.9	--
1912									
Jan. 22	*R.*	*EII*		*+0.061*	----	----	*0*	---	*5*
24	*Fn.*	*EII*		-----	*−0.11*	*−0.07*	*0*	---	*2½*
Feb. 7	*Fn.*	*EII*		*+0.061*	*−1.50*	*−1.50*	*0*	---	--
June 3	Fn.	WII		+0.007		−0.47	I	2.6	2
8	R.	EII		+0.036		----	I	2.9	2
10	Hd.–Fn.	EII		-----		−1.94	I	---	-- R.
10	Hd.–Fn.	EII		-----		−0.33	I	---	--
11	Hd.–Fn.	EII		-----		−1.68	I	---	3 R.
11	Hd.–Fn.	EII		-----		−1.34	I	---	3
13	Fn.–Hd.	EII		-----		−1.34	0	---	2 R.
13	Fn.–Hd.	EII		-----		+0.01	0	---	2
20	Fn.–Hd.	EII		-----		−1.69	I	---	2 R.
20	Fn.–Hd.	EII		-----		−0.17	I	---	2
July 2	Fn.–Hd.	EII		-----		−1.49	I	---	2 R.
2	Fn.–Hd.	EII		-----		−0.73	I	---	2
3	Hd.–Fn.	WII		-----		−1.50	I	---	2 R.
3	Hd.–Fn.	WII		-----		−0.77	I	---	2
5	Hd.–Fn.	WII		-----		−1.07	I	---	3 R.
1912					″	″			
July 5	Hd.–Fn.	WII		-----		−0.49	I	---	3
6	Fn.–Hd.	WII		-----		−1.03	I	---	2 R.
6	Fn.–Hd.	WII		-----		−0.24	I	---	2
8	Fn.–Hd.	WII		-----		−1.14	I	---	2 R.
8	Fn.–Hd.	WII		-----		−1.09	I	---	2
1913									
Jan. 12	*Fn.*	*WII*		-----	*−0.62*	*−0.54*	*0*	---	*2½*
27	*R.*	*EII*		*−0.035*	*−0.34*	*−0.44*	*I*	---	*3*
Mar. 18	R.	WII		+0.037		−0.59	II	2.6	2
22	R.	WII		+0.019		−0.23	I	---	2
May 24	R.	WII		+0.065		----	I	1.9	4
June 10	R.	WII		+0.071		−0.95	II	2.6	1½
12	Hd.	EII		+0.038		−0.71	I	2.9	3
13	Fn.	EII		+0.032		−1.59	I	3.6	3½
17	Fn.	EII		+0.014		−1.01	I	2.6	2½
18	R.	EII		+0.022		−0.64	II	2.6	2
26	Hd.	EII		+0.025		−0.48	I	2.9	2
30	Hd.	EII		+0.007		−0.54	I	2.9	2
July 1	Fn.	EII		+0.012		−0.84	I	2.7	2
7	Hd.	WII		+0.056		−0.39	II	2.6	2
8	Fn.	WII		+0.042		−0.76	I	2.7	2½
Dec. 14	*Fn.*	*WI*		*+0.001*	*−0.96*	*−0.84*	*0*	---	*3*
19	*Hd.*	*WI*		*+0.025*	*−0.22*	*−0.08*	*0*	---	*3*
26	*Wy.*	*WI*		*+0.092*	*−0.97*	*−0.83*	*0*	---	*3½*
1914									
Jan. 5	*Fn.*	*EI*		*+0.066*	*−0.84*	*−0.78*	*0*	---	*3*
14	*R.*	*EI*		-----	*−1.04*	*−1.00*	*0*	---	--
Feb. 7	*Wy.*	*EI*		*+0.094*	*−1.89*	*−1.87*	*0*	---	*3*
Apr. 23	Wy.	EI		+0.053		----	0	---	3
27	Wy.	EI		+0.057		----	I	2.9	2½
May 9	Fn.	WI		+0.035		----	I	3.4	2½
18	Fn.	WI		+0.022		----	I	2.9	3
19	Wy.	WI		+0.021		----	I	3.4	3
26	Wy.	EI		+0.090		----	I	2.9	3
June 2	Fn.	EI		+0.020		----	I	2.9	2
5	Fn.	EI		+0.011		----	I	2.9	2
6	Wy.	EI		+0.042		----	I	2.9	2½
11	Fn.	EI		+0.045		−0.07	I	2.9	2
23	Hd.	WI		+0.001		−0.95	I	3.4	2½
24	Wy.	WI		+0.025		−1.00	I	3.9	2½
25	Fn.	WI		+0.036		−0.34	0	---	3
27	Wy.	WI		+0.036		−0.57	0	---	3½
29	Fn.	WI		+0.047		−0.34	I	2.9	3
30	Hd.	WI		+0.055		−0.18	I	2.9	3
July 2	Fn.	WI		+0.011		−1.09	I	3.4	2
3	Hd.	WI		+0.041		−0.52	I	---	2½
8	Fn.	WI		+0.054		−0.70	I	2.9	2
9	Hd.	WI		+0.050		−0.62	II	2.6	2
18	Hd.	EI		+0.025		−0.18	I	2.9	2
19	Hd.	EI		+0.046		−0.24	II	2.6	2
Oct. 21	*An.*	*EI*		*+0.059*	*−0.83*	*−0.57*	*0*	---	*4*
1915									
Jan. 6	*Hd.*	*EI*		*+0.036*	----	----	*0*	---	*3*
7	*Wy.*	*EI*		*+0.022*	*−0.21*	*−0.13*	*0*	---	*3½*
8	*An.*	*EI*		*+0.023*	*−0.75*	*−0.62*	*0*	---	*3*
13	*Hd.*	*WI*		*+0.080*	*−0.68*	*−0.58*	*0*	---	*2*
14	*Fn.*	*WI*		*+0.010*	*−1.57*	*−1.49*	*0*	---	*3½*
19	*Hd.*	*EI*		-----	*−0.82*	*−0.72*	*0*	---	*2½*
21	*Fn.*	*EI*		-----	*−0.20*	*−0.15*	*0*	---	*3*
Apr. 26	Fn.	EI		+0.062		----	0	---	2½
May 19	Fn.	EI		+0.043		+0.19	I	2.9	2½
31	Wy.	WI		+0.023		−0.77	I	---	3
June 4	An.	WI		+0.030		----	II	3.6	3
8	Hd.	EI		+0.043		----	I	---	2
9	An.	EI		+0.057		----	0	---	--
17	Fn.	WI		+0.019		----	I	2.9	2½
18	Hd.	WI		+0.033		−0.66	I	3.4	2
19	Wy.	WI		+0.069		----	I	3.4	2½
20	An.	EI		+0.044		----	II	3.6	3
24	Fn.	EI		+0.014		----	I	2.4	2
27	Hd.	EI		+0.043		----	II	3.1	2
28	Wy.	EI		+0.008		−0.50	II	3.1	2½
29	Hd.	EI		+0.011		+0.03	I	3.4	2
July 2	Hd.	WI		+0.028		----	I	3.9	2½
5	Hd.	WI		+0.041		----	II	3.1	2
6	Fn.	WI		+0.035		----	I	2.9	2½
9	Fn.	WI		+0.060		−0.42	I	---	2½
11	Fn.	WI		+0.031		−0.81	I	3.4	3

				s	″	″			
1915									
July	21	An.	EI	+0.037		−0.22	I	---	3
	22	Fn.	EI	+0.007		+0.01	I	3.4	3
	23	Hd.	EI	+0.042		−0.36	II	2.6	2
	27	Hd.	EI	+0.032		−0.13	I	3.4	3
Dec.	*14*	*Fn.*	*WI*	*+0.135*	----	----	*0*	---	*3½*
	20	*Fn.*	*WI*	*+0.071*	*−0.97*	*−0.97*	*0*	---	*3½*
1916									
Jan.	*2*	*Hd.*	*EI*	*+0.083*	*−1.29*	*−1.19*	*0*	---	*3*
	3	*Fn.*	*EI*	*+0.066*	*−0.56*	*−0.50*	*0*	---	*3½*
	7	*Hd.*	*EI*	*+0.045*	*−0.68*	*−0.52*	*0*	---	*3*
	18	*Fn.*	*EI*	*+0.052*	*−0.35*	*−0.22*	*0*	---	*3½*
Aug.	*7*	*Wy.*	*EI*	*+0.033*	*−0.48*	*−0.42*	*0*	---	*3*
	17	*Fn.*	*EI*	*−0.009*	*−0.84*	*−0.84*	*0*	---	*2½*
	25	*Fn.*	*WI*	*+0.032*	*−0.51*	*−0.44*	*0*	---	*3½*
Oct.	*12*	*Hd.*	*WI*	*+0.007*	*−1.75*	*−1.62*	*0*	---	*3*
Dec.	*28*	*Hd.*	*WI*	*+0.098*	*−1.58*	*−1.50*	*0*	---	*3*
1917									
Jan.	*18*	*Hd.*	*EI*	*+0.072*	*−1.05*	*−1.03*	*0*	---	*3*
June	19	Fn.	WII	+0.052		−0.49	I	2.9	3
	22	Fn.	WII	+0.043		−0.76	I	2.9	3
	25	Wy.	WII	+0.035		−0.02	II	3.1	2½
	26	Hd.	WII	+0.035		−0.82	I	---	2
July	6	Fn.	EII	+0.022		+0.47	I	2.9	2½
July	*31*	*Fn.*	*EII*	*+0.067*	*−0.61*	*−0.57*	*I*	---	*2½*
Aug.	*3*	*Fn.*	*WII*	*+0.030*	*+0.27*	*+0.28*	*I*	---	*2½*
	6	*Hd.*	*WII*	*+0.059*	*−0.25*	*−0.23*	*I*	---	*2*
	9	*Hd.*	*WII*	*−0.006*	*+0.07*	*+0.09*	*I*	---	*2½*
	10	*Wy.*	*WII*	*−0.024*	*−0.46*	*−0.48*	*I*	---	*3*
	13	*Fn.*	*WII*	*+0.017*	*−0.30*	*−0.25*	*0*	---	*2½*
Sept.	*13*	*Hd.*	*EII*	*+0.057*	*−0.49*	*−0.38*	*0*	---	*3*
	17	*Hd.*	*EII*	*+0.004*	*−0.64*	*−0.51*	*0*	---	*3*
	20	*Hd.*	*WII*	*+0.037*	*−1.47*	*−1.36*	*0*	---	*3½*
Oct.	*2*	*Fn.*	*WII*	*+0.053*	*−0.54*	*−0.40*	*0*	---	*3½*
1918									
Jan.	*7*	*Hd.*	*EII*	*+0.033*	*−0.33*	*−0.27*	*0*	---	*3*
July	2	Hd.	WII	+0.038		−0.92	I	2.9	3
	15	Wy.	EII	+0.045		−0.05	I	3.4	3
	16	Hd.	EII	+0.048		+0.06	I	3.4	2
Aug.	*15*	*Fn.*	*WII*	*−0.052*	*+0.09*	*+0.09*	*0*	---	*2½*
	16	*Hd.*	*WII*	*+0.030*	*−0.72*	*−0.69*	*I*	---	*2*
Mean		1914.26		+0.036		−0.51			
		1913.96							
Corr				−0.081		−0.17			

Bradley 2067

				h	m	s	°	′	″			
1912												
May	24	Hd.	EII	16	10	43.755	−8	7	56.51	0	5.5	3
	25	R.	EII			43.723			55.83	0	---	5
	28	Hd.	WII			43.728			56.94	0	5.5	2
	30	Fn.	WII			43.685			55.69	0	5.5	3
1915												
June	17	Fn.	WI			43.720			57.42	0	5.5	2½
	20	An.	EI			43.768			57.06	0	6.5	3
	24	Fn.	EI			43.724			57.48	0	5.5	2½
July	2	Hd.	WI			43.731			57.60	0	6.5	3
Mean		1913.94		16	10	43.729	−8	7	56.82			
Corr						−0.081			−0.15			

13 Herculis

				h	m	s	°	′	″			
1913												
Apr.	19	R.	WII	16	10	46.683	+11	43	2.73	0	---	2
	20	R.	WII			46.707			2.96	0	7.5	1½
	22	Fn.	EII			46.686			3.29	0	7.5	2
	25	Fn.	EII			46.639			3.27	0	7.5	3
1914												
May	2	Fn.	WI			46.698			3.05	0	7.5	2½
	11	Hd.	WI			46.714			2.28	0	---	---
	16	Fn.	WI			46.727			4.31	0	7.0	2
	22	Wy.	EI			46.718			3.18	0	---	3
	25	Fn.	EI			46.647			3.32	0	7.5	3
Mean		1913.90		16	10	46.691	+11	43	3.15			
Corr						−0.081			−0.21			

σ Coronæ Borealis *seq.*

				h	m	s	°	′	″			
				16	11	18.382	+34	5	10.66			
1911												
May	20	T.	WII			+0.113			−0.11	0	---	---
	22	Fn.	WII			+0.079			[+2.97][1]	0	---	---
	24	T.	EII			+0.049			−0.30	0	---	---
June	18	R.	EII			+0.020			+0.09	0	---	---
1915												
May	9	Wy.	EI			+0.073			----	I	5.4	2
June	8	Hd.	EI			+0.046			----	0	6.5	2
	25	Wy.	EI			+0.104			−0.64	0	6.0	2½
	27	Hd.	EI			+0.059			−0.22	0	6.0	2
July	5	Hd.	WI			+0.044			−1.02	0	6.0	2
	6	Fn.	WI			+0.064			−0.92	0	5.5	2
Mean		1913.84				+0.065			−0.45			
		1913.45										
Corr						−0.081			−0.26			

Bradley 2075

				h	m	s	°	′	″			
1911												
May	27	T.	EII	16	12	26.436	+23	20	44.98	0	6.5	---
	29	Fn.	WII			26.395			45.07	0	7.4	---
June	1	Fn.	WII			26.413			44.85	0	6.8	---
	11	R.	EII			26.365			44.91	0	---	---
1915												
May	17	Hd.	EI			26.420			45.40	0	7.0	3
	19	Fn.	EI			26.460			44.87	0	6.5	2
June	18	Hd.	WI			26.446			45.16	0	7.0	2
	19	Wy.	WI			26.380			45.13	0	7.0	2½
Mean		1913.42		16	12	26.414	+23	20	45.05			
Corr						−0.081			−0.24			

Piazzi XVI 31

				h	m	s	°	′	″			
1913												
May	5	Hd.	EII	16	12	42.846	−28	23	28.35	0	6.5	3
	8	Hd.	EII			42.815			27.72	0	6.0	3
	20	Fn.	WII			42.817			28.05	0	5.7	3½
June	4	R.	WII			42.864			26.81	0	7.0	3½
1914												
May	19	Wy.	WI			42.868			28.45	0	7.5	3½
	20	Hd.	WI			42.817			28.12	0	6.5	3½
	26	Wy.	EI			42.844			27.68	0	7.0	3½
June	2	Fn.	EI			42.855			27.80	0	5.5	3
Mean		1913.88		16	12	42.841	−28	23	27.87			
Corr						−0.081			0.00			

19 Ursæ Minoris

				h	m	s	°	′	″			
				16	13	22.672	+76	6	16.07			
1913												
Apr.	30	R.	EII			−0.08			+1.03	0	6.0	2½
May	1	Hd.	EII			−0.18			+0.25	0	5.5	3
	24	R.	WII			−0.20			+0.77	0	6.0	3
	28	R.	WII			−0.14			−0.11	0	---	4
1914												
May	15	Wy.	WI			−0.04			+0.91	0	6.0	3
	18	Fn.	WI			−0.04			+0.38	0	5.5	3
	28	Fn.	EI			+0.08			+1.01	0	6.0	2½
June	5	Fn.	EI			+0.01			+0.69	0	6.0	2
Mean		1913.88				−0.074			+0.62			
Corr						−0.081			−0.35			

19 Ursæ Minoris s. p.

				h	m	s	°	′	″			
				16	13	22.672	+76	6	16.07			
1912												
Dec.	9	Fn.	WII			−0.33			−1.24	0	5.5	3½
	13	Hd.	EII			−0.25			+0.11	0	6.0	4
	14	R.	EII			−0.08			+0.58	0	---	3½
	27	Fn.	WII			−0.34			−0.24	0	6.2	4

[1] Micrometer readings doubtful.

				″			
1913							
Dec. 27	Wy.	WI	−0.33	−0.48	0	5.0	2½
30	Wy.	WI	−0.18	−0.13	0	6.0	3
1914							
Jan. 6	Fn.	EI	−0.03	−0.75	0	6.0	3½
7	Hd.	EI	−0.43	−0.79	0	---	3
26	R.	WI	+0.05	−0.18	0	6.0	4
28	Wy.	WI	−0.10	−0.05	0	6.0	4
Mean	1913.60		−0.202	−0.32			
Corr			−0.081	+0.52			

ε Ophiuchi

	h	m	s	°	′	″
	16	13	33.489	−4	28	25.20

1913							
Apr. 1	R.	EII	+0.037	−0.77	I	2.9	3
7	Fn.	WII	+0.053	+0.17	I	3.9	3½
17	R.	WII	+0.090	−0.77	I	3.4	2½
29	Fn.	EII	+0.039	+0.39	I	3.9	3½
1914							
May 6	Fn.	WI	+0.064	−1.02	I	3.9	2½
9	Fn.	WI	+0.046	−1.08	I	3.4	3
June 6	Wy.	EI	+0.113	+0.31	0	---	2½
11	Fn.	EI	+0.020	+0.14	I	3.4	2
Mean	1913.84		+0.058	−0.33			
Corr			−0.081	−0.16			

Groombridge 2325

			h	m	s	°	′	″			
1913											
May 2	Fn.	EII	16	13	35.459	+53	27	38.29	0	7.0	3
3	R.	EII			35.419			37.81	0	7.5	3
31	R.	WII			35.377			37.56	0	6.5	3
June 2	Hd.	WII			35.402			37.84	0	7.0	2
1914											
Mar. 26	Hd.	EI			35.413			37.63	0	7.5	3
Apr. 3	Fn.	WI			35.461			36.90	0	7.0	2
6	Fn.	WI			35.491			37.33	0	7.5	3
27	Wy.	EI			35.357			36.91	0	7.0	2
Mean	1913.82		16	13	35.422	+53	27	37.53			
Corr					−0.081			−0.30			

Lacaille 6788

			h	m	s	°	′	″			
1911											
July 1	R.	WII	16	13	50.954	−30	41	20.35	0	6.5	--
6	Fn.	EII			51.067			20.41	0	6.7	--
9	R.	EII			51.040			20.73	0	4.5	--
10	Fn.	WII			51.030			20.66	0	5.3	--
1915											
May 8	Hd.	EI			51.088			19.37	0	---	3½
9	Wy.	EI			51.053			20.57	0	6.5	3½
10	Hd.	EI			51.036			19.92	0	6.5	3½
31	Wy.	WI			51.044			19.33	0	6.5	3½
June 12	An.	WI			51.016			20.61	0	7.5	3½
Mean	1913.66		16	13	51.036	−30	41	20.22			
Corr					−0.081			+0.04			

Weisse$_2$ XVI 367

			h	m	s	°	′	″			
1911											
June 29	Fn.	WII	16	14	15.540	+32	0	58.86	0	7.8	--
30	Hd.	WII			15.533			59.79	0	7.0	--
July 3	Fn.	EII			15.565			57.94	0	6.8	--
5	R.	EII			15.535			58.16	0	7.5	3½
1915											
June 17	Fn.	WI			15.609			60.48	0	7.0	2
24	Fn.	EI			15.517			59.34	0	7.0	2
25	Wy.	EI			15.620			59.40	0	7.5	2½
July 2	Hd.	WI			15.598			60.50	0	7.5	2½
Mean	1913.49		16	14	15.565	+32	0	59.31			
Corr					−0.081			−0.25			

Lalande 29696

			h	m	s	°	′	″			
1913											
Mar. 11	R.	EII	16	14	21.840	−18	36	36.28	0	7.5	3
18	R.	WII			21.855			37.50	0	7.5	3
31	Fn.	EII			21.822			37.99	0	8.0	3½
Apr. 6	R.	WII			21.876			36.88	0	7.5	2½
1914											
Mar. 13	Fn.	WI			21.853			37.83	0	7.0	3
20	Fn.	EI			21.872			36.36	0	7.0	3
24	Fn.	EI			21.882			37.61	0	8.0	3
Apr. 9	Fn.	WI			21.862			37.36	0	7.0	2½
Mean	1913.73		16	14	21.858	−18	36	37.23			
Corr					−0.081			−0.09			

Bradley 2099

			h	m	s	°	′	″			
1911											
June 8	Fn.	WII	16	14	47.20	+75	26	2.81	0	6.4	--
9	Hd.	WII			47.13			2.49	0	7.0	--
15	Fn.	EII			47.08			2.40	0	6.4	--
20	Hd.	EII			47.27			2.34	0	---	--
1915											
June 27	Hd.	EI			47.19			3.09	0	7.5	2
28	Wy.	EI			47.31			2.26	0	7.0	2½
July 6	Fn.	WI			47.19			3.01	0	6.0	2½
9	Fn.	WI			47.02			2.46	0	7.0	2½
Mean	1913.48		16	14	47.174	+75	26	2.61			
Corr					−0.081			−0.35			

Bradley 2099 s. p.

			h	m	s	°	′	″			
1911											
Nov. 16	R.	EII	16	14	47.07	+75	26	1.33	0	6.5	2½
18	R.	EII			46.97			2.06	0	---	3½
25	Hd.	WII			47.11			1.89	0	6.5	3½
30	R.	WII			47.12			1.55	0	6.0	4
1914											
Dec. 22	Wy.	WI			47.11			1.72	0	7.5	4
23	Hd.	WI			47.08			1.73	0	7.5	3½
1915											
Jan. 4	Hd.	EI			47.16			2.12	0	6.5	3
7	Hd.	EI			47.00			2.85	0	7.0	4
10	Wy.	WI			47.04			2.01	0	7.0	3
Mean	1913.62		16	14	47.073	+75	26	1.92			
Corr					−0.081			+0.53			

σ Scorpii

	h	m	s	°	′	″
	16	15	42.927	−25	22	39.15

1913							
Apr. 19	R.	WII	+0.020	+0.80	I	3.4	3
20	R.	WII	+0.032	+0.77	I	2.9	2½
22	Fn.	EII	+0.068	−0.74	0	4.5	3½
25	Fn.	EII	−0.010	−0.13	I	3.4	3
1914							
Apr. 30	Wy.	WI	+0.027	−0.31	I	3.4	3
May 2	Fn.	WI	+0.012	+0.33	I	2.9	3½
22	Wy.	EI	+0.077	−0.04	I	4.4	3½
25	Fn.	EI	+0.081	−0.78	0	---	3½
Mean	1913.84		+0.038	−0.01			
Corr			−0.081	−0.03			

τ Herculis

	h	m	s	°	′	″
	16	17	2.135	+46	31	38.23

1911							
May 20	T.	WII	−0.056	+0.21	0	---	--
22	Fn.	WII	−0.038	+0.81	0	4.3	--
24	T.	EII	−0.036	+0.25	0	---	--
25	Fn.	EII	−0.069	+0.44	I	3.6	--

				s		″			
1915									
June 20	An.	EI		−0.024		+0.42	I	5.4	2
24	Fn.	EI		−0.045		+0.40	I	3.9	2
29	Hd.	EI		−0.008		----	I	4.4	2
July 5	Hd.	WI		−0.078		−0.09	I	3.9	2
11	Fn.	WI		−0.040		+0.24	I	4.4	2½
12	Hd.	WI		−0.005		----	I	---	2½
23	Hd.	EI		−0.034		----	I	3.4	2
27	Hd.	EI		−0.023		----	I	---	2
1916									
June 12	Wy.	EI		−0.063		----	I	3.4	2½
July 3	Wy.	WI		+0.029		----	0	---	3
6	Wy.	EI		−0.039		----	I	4.4	2½
11	Fn.	EI		−0.030		----	0	4.5	2½
Aug. 3	Hd.	WI		−0.027		----	0	---	3
7	*Wy.*	*EI*		*−0.072*	----	----	*0*	---	*2½*
1917									
June 22	Fn.	WII		+0.020		----	0	5.0	2½
Aug. 6	*Hd.*	*WII*		*−0.012*	----	----	*I*	---	*2*
9	*Hd.*	*WII*		*−0.071*	----	----	*I*	---	*2*
Oct. 20	*Hd.*	*EII*		*+0.056*	----	----	*0*	---	*3½*
1918									
July 13	Wy.	EII		−0.094		----	I	3.4	2
16	Hd.	EII		−0.065		----	I	---	2
Aug. 16	*Hd.*	*WII*		*−0.067*	----	----	*0*	---	*2*
Mean------	1915.34			−0.036		+0.34			
	1913.44								
Corr----------				−0.081		−0.28			

σ Serpentis

				h	m	s	°	′	″			
1911												
June 22	Fn.	EII		16	17	30.812	+1	14	23.07	0	5.3	--
26	Fn.	EII				30.839			24.15	0	6.2	--
27	Hd.	WII				30.810			23.71	0	6.0	--
28	T.	WII				30.824			23.89	0	---	--
1915												
May 19	Fn.	EI				30.792			24.18	0	5.5	2½
June 10	Fn.	EI				30.843			23.89	0	6.0	2½
12	An.	WI				30.766			23.98	I	5.4	3
17	Fn.	WI				30.729			23.45	0	5.5	2½
Mean------	1913.46			16	17	30.802	+1	14	23.79			
Corr----------						−0.081			−0.18			

γ Herculis

				h	m	s	°	′	″			
				16	17	56.947	+19	21	50.10			
1911												
May 27	T.	EII				+0.008			+0.20	I	4.4	--
29	Fn.	WII				+0.015			+0.23	I	4.8	--
June 1	Fn.	WII				+0.113			+1.02	0	---	--
18	R.	EII				+0.031			+0.09	I	---	--
1915												
May 10	Hd.	EI				+0.020			+0.37	I	4.4	2
17	Hd.	EI				+0.030			−0.23	I	3.9	2
June 18	Hd.	WI				+0.001			−0.07	I	4.4	2
19	Wy.	WI				+0.043			+0.40	I	3.9	2½
Mean------	1913.42					+0.033			+0.25			
Corr----------						−0.081			−0.23			

ξ Coronæ Borealis

				h	m	s	°	′	″			
1915												
July 6	Fn.	WI		16	18	35.379	+31	6	----	0	5.0	2½
9	Fn.	WI				35.382			----	0	5.5	2
16	Fn.	WI				35.357			----	0	---	3
1916												
Feb. 3	Fn.	EI				35.356			2.53	0	---	3
7	Fn.	EI				35.401			2.11	0	---	2½
Mar. 3	Hd.	WI				35.379			1.91	I	4.9	2½
10	Fn.	WI				35.351			2.12	0	5.0	2
June 12	Wy.	EI				35.344			----	I	4.4	2½
13	Fn.	EI				35.345			----	0	5.5	2
17	Wy.	WI				35.370			----	I	4.4	2
July 3	Wy.	WI				35.418			----	0	6.0	3
1916												
July 6	Wy.	EI				35.357			----	I	4.4	2½
7	Fn.	EI				35.322			----	0	5.5	2
14	Fn.	EI				35.345			----	0	5.0	2
Aug. 1	Fn.	WI				35.361			----	0	---	1½
4	*Fn.*	*WI*				*35.381*	----		----	*0*	---	*2½*
7	*Wy.*	*EI*				*35.327*	----		----	*0*	---	*2½*
1917												
July 6	Fn.	EII				35.310			----	0	5.0	1½
1918												
June 23	Wy.	WII				35.340			----	I	4.4	2½
July 13	Wy.	EII				35.309			----	I	3.9	2½
Mean------	1916.54			16	18	35.357	+31	6	2.17			
	1916.14											
Corr----------						−0.081			−0.25			

23 Herculis

				h	m	s	°	′	″			
1915												
June 29	Hd.	EI		16	19	29.173	+32	32	----	0	6.5	2
July 9	Fn.	WI				29.188			----	0	6.5	2
23	Hd.	EI				29.172			----	0	6.0	2
27	Hd.	EI				29.189			----	0	---	2
1916												
Aug. 3	Hd.	WI				29.223			----	0	---	3
1917												
Aug. 6	*Hd.*	*WII*				*29.226*	----		----	*0*	---	*2*
9	*Hd.*	*WII*				*29.176*	----		----	*0*	---	*2*
1918												
July 13	Wy.	EII				29.120			----	0	5.5	2
Mean------	1916.21			16	19	29.177	+32	32	----			
Corr----------						−0.081			----			

Weisse$_1$ XVI 319

				h	m	s	°	′	″			
1913												
Apr. 1	R.	EII		16	19	58.504	−2	16	50.97	0	7.5	2½
6	R.	WII				58.486			49.98	0	7.5	2
17	R.	WII				58.509			50.94	0	7.5	2
29	Fn.	EII				58.479			50.42	0	8.5	3½
1914												
Mar. 24	Fn.	EI				58.458			50.31	0	7.5	3
26	Hd.	EI				58.467			50.05	0	7.5	3
Apr. 3	Fn.	WI				58.447			50.05	0	7.0	2½
9	Fn.	WI				58.455			50.50	0	7.0	2½
Mean------	1913.76			16	19	58.476	−2	16	50.40			
Corr----------						−0.081			−0.17			

η Ursæ Minoris

				h	m	s	°	′	″
				16	20	7.200	+75	57	47.85

1912										
June 10	Hd.–Fn.	EII	-----	−0.04	0	---	--			R.
10	Hd.–Fn.	EII	-----	−0.34	0	---	--			
11	Hd.–Fn.	EII	-----	−0.46	0	---	3			R.
11	Hd.–Fn.	EII	-----	−0.09	0	---	3			
13	Fn.–Hd.	EII	-----	−0.40	0	---	2			R.
13	Fn.–Hd.	EII	-----	+0.43	0	---	2			
20	Fn.–Hd.	EII	-----	−0.52	0	---	2			R.
20	Fn.–Hd.	EII	-----	+0.12	0	---	2			
July 2	Fn.–Hd.	EII	-----	−0.46	0	---	2			R.
2	Fn.–Hd.	EII	-----	+0.13	0	---	2			
3	Hd.–Fn.	WII	-----	−0.32	0	---	2			R.
3	Hd.–Fn.	WII	-----	+0.64	0	---	2			
5	Hd.–Fn.	WII	-----	+0.45	0	---	3			R.
5	Hd.–Fn.	WII	-----	−0.19	I	---	3			
6	Fn.–Hd.	WII	-----	−0.39	0	---	2			R.
6	Fn.–Hd.	WII	-----	+0.37	I	---	2			
8	Fn.–Hd.	WII	-----	+0.69	0	---	2			R.
8	Fn.–Hd.	WII	-----	−0.09	0	---	2			
1913										
Mar. 11	R.	EII	−0.03	+0.37	I	4.4	1½			
18	R.	WII	−0.16	−0.28	0	5.0	3½			
22	R.	WII	−0.12	−0.22	0	---	2			
31	Fn.	EII	+0.04	+0.18	0	5.0	2½			

				s	″				
1914									
Apr.	23	Wy.	EI	−0.02	+0.06	0	---		3½
	27	Wy.	EI	−0.06	+0.66	0	5.5		2
	30	Wy.	WI	−0.03	+1.06	0	5.0		2½
May	2	Fn.	WI	+0.05	+0.27	0	5.0		3
Mean			1913.77	−0.041	+0.18				
			1913.09						
Corr				−0.081	−0.35				

η Ursæ Minoris s. p.

	h	m	s	°	′	″
	16	20	7.198	+75	57	48.04

1911									
Nov.	18	R.	EII	−0.17	−0.89	0	---		3½
	19	Fn.	EII	+0.02	−0.54	0	---		4
Dec.	4	Hd.	WII	−0.18	+0.07	0	5.0		4
	5	Hd.	WII	+0.05	−1.07	0	5.5		5
1915									
Sept.	22	Wy.	EI	+0.08	−0.55	I	4.9		3½
	24	Hd.	EI	+0.12	−1.61	0	6.0		4
Oct.	21	Fn.	WI	+0.08	−0.21	0	6.0		3½
	22	Hd.	WI	−0.09	−0.96	0	5.5		3½
Mean			1913.83	−0.011	−0.72				
Corr				−0.081	+0.52				

ω Herculis

	h	m	s	°	′	″
	16	21	15.503	+14	14	23.49

1913									
Apr.	19	R.	WII	+0.179	−0.55	I	4.9		2
	20	R.	WII	+0.248	−0.69	I	4.9		2
	22	Fn.	EII	+0.241	−0.74	0	5.3		2
	25	Fn.	EII	+0.177	−0.29	0	4.8		1½
1914									
Mar.	3	Fn.	WI	+0.254	+0.71	0	---		3
	7	Wy.	EI	+0.286	+0.69	0	4.5		2½
	13	Fn.	WI	+0.228	−0.74	0	5.0		2
	20	Fn.	EI	+0.217	+1.11	0	4.5		2
Mean			1913.75	+0.229	−0.06				
Corr				−0.081	−0.22				

98 B. Draconis

				h	m	s	°	′	″			
1911												
June	8	Fn.	WII	16	22	27.083	+55	24	34.67	0	6.0	---
	9	Hd.	WII			27.130			34.26	0	6.0	---
	15	Fn.	EII			27.103			34.61	0	6.0	---
	20	Hd.	EII			27.225			34.24	0	---	---
1915												
June	10	Fn.	EI			27.191			34.38	0	6.0	2½
	12	An.	WI			27.189			34.55	0	6.0	2
	17	Fn.	WI			27.170			34.49	0	6.0	2½
	20	An.	EI			27.192			34.28	0	---	2
Mean			1913.45	16	22	27.160	+55	24	34.44			
Corr						−0.081			−0.30			

η Draconis [1]

	h	m	s	°	′	″
	16	22	46.230	+61	43	3.96

1911									
May	20	T.	WII	−0.06	+0.32	I	---		---
	22	Fn.	WII	−0.08	+0.82	I	2.5		---
	24	T.	EII	−0.12	+0.40	0	---		---
	25	Fn.	EII	−0.08	−0.19	I	2.2		---
1912									
Feb.	15	R.	EII	----	+0.54	I	---		---
	16	Fn.	EII	----	+0.81	II	---		2
	22	R.	WII	----	−0.71	I	---		2
	23	Fn.	WII	----	+0.10	I	2.5		2½
	27	Fn.	WII	----	+0.59	I	2.4		1½

[1] Double; n. pr. component observed.

				s	″				
1915									
May	17	Hd.	EI	−0.06	+0.61	I	3.4		2½
	19	Fn.	EI	0.00	+0.32	I	2.9		2
June	18	Hd.	WI	−0.06	+0.50	I	2.9		2
	19	Wy.	WI	+0.02	+0.45	II	2.6		3
Mean			1913.40	−0.055	+0.35				
			1912.92						
Corr				−0.081	−0.32				

η Draconis s. p.

	h	m	s	°	′	″
	16	22	-----	+61	43	4.02

1912									
Feb.	22	R.	WII	-----	+2.3	0	---		--
Oct.	1	R.	EII	-----	−1.3	0	---		--
1913									
Feb.	7	R.	WII	-----	+0.1	0	---		5
	8	R.	WII	-----	−3.6	0	---		--
	13	Hd.	WII	-----	−1.7	I	---		4
	14	R.	WII	-----	−1.6	0	---		--
	18	Fn.	EII	-----	+0.7	0	---		3½
	19	Hd.	EII	-----	−0.8	0	---		4
	21	R.	EII	-----	+0.1	0	---		--
	23	R.	EII	-----	−1.3	0	---		--
	24	Hd.	EII	-----	−0.3	0	---		4
1914									
Feb.	21	Hd.	WI	-----	−1.2	I	---		3½
1916									
Feb.	3	Hd.	EI	-----	−0.6	0	---		4
	7	Wy.	EI	-----	+0.5	0	---		5
	9	Fn.	WI	-----	+0.8	0	---		4
	19	Hd.	WI	-----	−1.8	0	---		4
	21	Fn.	WI	-----	+2.5	0	---		4
Mean			1913.99	-----	−0.42				
Corr				-----	+0.89				

α Scorpii [2]

	h	m	s	°	′	″
	16	23	53.203	−26	13	58.69

				s	″	″			
1911									
June	18	R.	EII	+0.036		----	II	---	--
	26	Fn.	EII	+0.079		----	0	---	--
	29	Fn.	WII	+0.087		----	II	1.1	--
	30	Hd.	WII	+0.065		----	II	1.6	--
July	1	R.	WII	+0.092		----	II	1.6	--
	3	Fn.	EII	+0.032		----	I	---	--
	5	R.	EII	+0.085		----	II	1.1	--
	6	Fn.	EII	+0.060		----	II	2.2	3
	9	R.	EII	+0.015		----	II	1.6	4
	10	Fn.	WII	+0.079		----	II	0.9	2
	12	R.	WII	+0.142		----	I	---	3
	14	Hd.	WII	+0.070		----	II	1.6	3
	15	R.	WII	+0.034		----	II	1.6	--
	17	Fn.	EII	+0.016		+0.10	I	1.6	--
	19	R.	EII	+0.051		----	I	---	3
	20	Fn.	EII	+0.071		+0.13	II	2.5	3
	22	R.	EII	+0.061		−0.19	I	---	3½
	24	Fn.	EII	+0.077		+0.10	I	---	4
	25	Hd.	EII	+0.092		−0.60	I	0.9	4
	27	Fn.	WII	+0.051		----	--	---	--
1912									
Jan.	*22*	*R.*	*EII*	*+0.053*	----	----	*0*	---	*5*
Feb.	*7*	*Fn.*	*EII*	*+0.049*	----	----	*0*	---	*4*
	12	*Hd.*	*EII*	*+0.086*	----	----	*II*	---	*4*
May	25	R.	EII	+0.071		----	II	---	5
	28	Hd.	WII	−0.003		−0.25	II	2.1	3
	30	Fn.	WII	−0.024		----	I	---	4
	31	Hd.	WII	+0.072		−0.35	II	1.6	2½
June	1	R.	WII	+0.022		----	II	1.6	2½
	5	R.	EII	+0.062		----	II	---	--
1913									
Jan.	*3*	*Hd.*	*WII*	*+0.050*	*+1.00*	*+1.09*	*0*	---	*3½*
	12	*Fn.*	*WII*	----	*−0.32*	*−0.07*	*0*	---	*3½*
	13	*R.*	*WII*	*+0.044*	----	----	*0*	---	--

[2] Double; fol. component observed.

				s	″	″			
1913									
Jan.	*21*	*Fn.*	*EII*	*+0.074*	*−0.07*	*+0.05*	*0*	---	*4*
	27	*R.*	*EII*	*+0.037*	*−0.37*	*−0.62*	*I*	---	*3*
Mar.	29	R.	EII	+0.104		----	0	---	4
Apr.	1	R.	EII	+0.061		----	II	1.1	3½
	8	R.	WII	+0.106		----	0	---	3½
June	5	Hd.	WII	+0.038		+0.23	II	1.1	2
	10	R.	WII	+0.64		----	II	1.1	2
	12	Hd.	EII	+0.032		----	I	---	3
	13	Fn.	EII	+0.053		−0.88	I	1.9	3½
	18	R.	EII	+0.069		----	II	1.1	3
	26	Hd.	EII	+0.054		----	I	---	3
July	7	Hd.	WII	+0.074		+0.48	II	1.6	3
	8	Fn.	WII	+0.052		----	II	2.1	3
Dec.	*12*	*Hd.*	*EI*	*+0.035*	----	----	*0*	---	*5*
1914									
Jan.	*5*	*Fn.*	*EI*	*+0.072*	----	----	*0*	---	*4*
	21	*Hd.*	*WI*	*+0.041*	----	----	*0*	---	*3½*
	27	*Wy.*	*WI*	*+0.039*	----	----	*0*	---	*3½*
	28	*R.*	*WI*	*+0.070*	*−0.73*	*−0.59*	*0*	---	--
Feb.	*7*	*Wy.*	*EI*	*+0.104*	----	----	*0*	---	*3½*
	27	Fn.	EI	+0.033		----	I	2.4	3
Mar.	4	Wy.	WI	+0.044		----	0	---	3½
May	16	Fn.	WI	+0.059		−0.56	I	1.9	3½
	18	Fn.	WI	+0.016		−0.41	I	---	3½
	19	Wy.	WI	−0.001		−0.19	I	---	3½
	26	Wy.	EI	+0.078		----	II	2.6	3½
June	13	Wy.	EI	+0.056		----	II	2.1	2½
	20	Wy.	WI	+0.059		----	I	---	3½
	23	Hd.	WI	+0.058		----	I	2.9	3
	24	Wy.	WI	+0.029		----	I	---	3
	25	Fn.	WI	+0.095		----	0	---	3½
	27	Wy.	WI	−0.012		----	I	---	3½
	29	Fn.	WI	+0.035		----	I	---	3½
	30	Hd.	WI	+0.049		----	II	2.6	3
July	2	Fn.	WI	+0.091		+0.33	II	2.1	3
	8	Fn.	WI	+0.057		----	I	---	3
	9	Hd.	WI	+0.060		−0.03	II	1.1	2
	11	Hd.	WI	+0.079		----	II	1.6	3
	15	Hd.	WI	+0.028		----	I	1.1	3
	18	Hd.	EI	+0.063		+0.43	II	1.6	3½
	19	Hd.	EI	+0.117		+0.30	II	1.6	3
	20	Fn.	EI	+0.064		−0.36	I	1.9	2½
	21	Hd.	EI	+0.082		----	II	2.1	3
Oct.	*21*	*An.*	*EI*	*+0.031*	----	----	*0*	---	*4*
Nov.	*2*	*Fn.*	*WI*	-----	*−1.98*	*−1.60*	*0*	---	*4½*
Dec.	*16*	*Fn.*	*WI*	*+0.019*	----	----	*0*	---	*4*
	17	*Hd.*	*WI*	*+0.130*	*−0.32*	*−0.01*	*0*	---	*3½*
	29	*An.*	*EI*	*−0.040*	----	----	*0*	---	*4*
1915									
Jan.	*4*	*Wy.*	*EI*	*+0.005*	*−0.89*	*−0.84*	*0*	---	*3*
	6	*Hd.*	*EI*	*−0.031*	*+0.74*	*+1.06*	*0*	---	*4*
	7	*Wy.*	*EI*	*−0.007*	*+0.71*	*+0.97*	*0*	---	*3½*
	8	*An.*	*EI*	*−0.065*	*−0.13*	*+0.11*	*0*	---	*3½*
	12	*An.*	*WI*	*+0.018*	*−0.93*	*−0.98*	*0*	---	*4½*
	13	*Hd.*	*WI*	*+0.106*	*−0.39*	*+0.01*	*0*	---	*2*
	14	*Fn.*	*WI*	*+0.056*	----	----	*0*	---	*3½*
	19	*Hd.*	*EI*	-----	*−0.12*	*+0.08*	*0*	---	*3*
	28	*Wy.*	*EI*	*+0.019*	*+0.42*	*+0.54*	*0*	---	*4*
Apr.	26	Fn.	EI	+0.082		----	I	---	2½
May	9	Wy.	EI	+0.069		----	II	1.6	3
July	23	Hd.	EI	+0.056		−0.32	II	2.1	2
	24	An.	EI	+0.093		----	II	---	3
	27	Hd.	EI	+0.082		----	II	---	2
Dec.	*20*	*Fn.*	*WI*	*+0.110*	*−0.39*	*−0.14*	*0*	---	*4*
	22	*Wy.*	*WI*	*+0.174*	*+0.15*	*+0.34*	*0*	---	*3½*
1916									
Jan.	*2*	*Hd.*	*EI*	*+0.057*	*−0.30*	*−0.05*	*0*	---	*3½*
	3	*Fn.*	*EI*	*+0.045*	*−0.15*	*−0.06*	*0*	---	*3½*
	7	*Hd.*	*EI*	*+0.062*	*−0.23*	*+0.08*	*I*	---	*3*
	13	*Wy.*	*EI*	*+0.078*	*[+2.61]*[1]	*[+2.81]*[1]	*0*	---	*3½*
	18	*Fn.*	*EI*	*+0.014*	*+0.43*	*+0.56*	*0*	---	*3½*
Mar.	3	Hd.	WI	+0.137		----	II	2.1	3
June	12	Wy.	EI	+0.017		−0.51	II	2.1	3½
	13	Fn.	EI	+0.080		+0.01	I	1.9	3
	17	Wy.	WI	+0.062		−0.98	II	1.6	3
	26	Hd.	WI	+0.076		+0.35	II	2.1	3

				″	″			
1916								
June	29	Hd.	WI	+0.033		+0.37	II	2.1 2
July	3	Wy.	WI	+0.033		+0.27	I	--- 3½
	6	Wy.	EI	+0.033		−0.56	II	1.6 3
	7	Fn.	EI	+0.081		−0.37	I	2.4 3½
	11	Fn.	EI	+0.046		+0.22	I	1.9 3½
	14	Fn.	EI	+0.056		−0.29	I	1.9 3
	18	Wy.	EI	+0.056		−0.63	II	2.1 3
Aug.	1	Fn.	WI	+0.060		+0.17	I	1.9 3
	7	*Wy.*	*EI*	*+0.072*	*−0.96*	*−0.86*	*II*	--- *3½*
	17	*Fn.*	*EI*	*+0.042*	*+0.60*	*+0.56*	*I*	--- *3*
	22	*Fn.*	*EI*	*+0.105*	*−0.22*	*−0.22*	*0*	--- *3*
	25	*Fn.*	*WI*	*+0.004*	*+0.56*	*+0.67*	*0*	--- *3½*
Sept.	*28*	*Wy.*	*WI*	-----	*−0.60*	*−0.52*	*0*	--- *3½*
Oct.	*6*	*Wy.*	*WI*	*+0.064*	*−1.27*	*−1.13*	*0*	--- *4*
	10	*Fn.*	*WI*	*+0.156*	*+0.12*	*+0.74*	*0*	--- *4*
	12	*Hd.*	*WI*	*+0.085*	*−0.66*	*−0.36*	*0*	--- *3*
	17	*Fn.*	*WI*	*−0.010*	*+0.60*	*+0.52*	*0*	--- *4*
	23	*Wy.*	*WI*	*+0.072*	*−0.40*	*−0.17*	*0*	--- *4*
	24	*Hd.*	*WI*	*+0.132*	*+0.04*	*+0.72*	*0*	--- *3*
	26	*Wy.*	*EI*	*+0.090*	*−0.10*	*+0.45*	*0*	--- *3½*
Dec.	*28*	*Hd.*	*WI*	*+0.038*	*−0.08*	*+0.11*	*0*	--- *3½*
1917								
Jan.	*1*	*Wy.*	*WI*	*+0.072*	*−0.77*	*−0.34*	*0*	--- *4*
	17	*Fn.*	*EI*	*+0.097*	*−0.29*	*−0.29*	*0*	--- *4*
	18	*Hd.*	*EI*	*+0.103*	*−0.30*	*−0.21*	*0*	--- *3*
June	19	Fn.	WII	+0.075		−0.71	I	--- 3
	21	Wy.	WII	+0.036		−0.09	I	--- 3
	22	Fn.	WII	+0.066		−0.83	I	1.9 3½
	25	Wy.	WII	+0.063		−0.40	II	1.6 2½
July	6	Fn.	EII	+0.090		+0.66	I	1.9 3
	27	Hd.	EII	+0.046		−0.31	I	--- 3
	30	Wy.	EII	+0.117		+0.10	II	1.6 3
	31	Fn.	EII	+0.095		+0.10	I	--- 3
Aug.	3	Fn.	WII	+0.039		−1.37	I	2.4 3
	6	*Hd.*	*WII*	*+0.068*	*+0.52*	*+0.59*	*II*	--- *2½*
	9	*Hd.*	*WII*	*+0.028*	*+0.26*	*+0.29*	*II*	--- *3*
	10	*Wy.*	*WII*	*+0.007*	*−0.25*	*−0.28*	*II*	--- *3*
	20	*Fn.*	*WII*	*+0.027*	*−0.04*	*+0.08*	*0*	--- *3½*
Sept.	*17*	*Hd.*	*EII*	*+0.013*	*−0.48*	*−0.26*	*I*	--- *3*
	20	*Hd.*	*WII*	*+0.067*	*−0.28*	*−0.03*	*I*	--- *3*
Oct.	*2*	*Fn.*	*WII*	*+0.090*	*−0.41*	*−0.14*	*0*	--- *3½*
Nov.	*1*	*Hd.*	*EII*	*+0.145*	*+0.55*	*+1.17*	*0*	--- *3½*
Dec.	*20*	*Wy.*	*EII*	*+0.037*	*+0.23*	*+0.80*	*0*	--- *4*
1918								
Jan.	*7*	*Hd.*	*EII*	*−0.006*	*+0.38*	*+0.55*	*0*	--- *3½*
	16	*Fn.*	*EII*	*−0.045*	*−1.37*	*−1.46*	*0*	--- *3½*
July	15	Wy.	EII	+0.084		+0.79	II	1.6 3½
	16	Hd.	EII	+0.078		+0.03	I	--- 3
Aug.	*15*	*Fn.*	*WII*	*−0.017*	*−0.35*	*−0.33*	*I*	--- *2½*
	16	*Hd.*	*WII*	*+0.117*	*−0.15*	*0.00*	*0*	--- *3½*
Mean			1914.28	+0.060		−0.14		
			1915.41					
Corr				−0.081		−0.02		

Lacaille 6856

				h	m	s	°	′	″			
1911												
June	21	T.	EII	16	24	40.778	−27	43	8.82	0	8.0	--
	22	Fn.	EII			40.790			8.43	0	7.4	--
	27	Hd.	WII			40.743			8.34	0	8.0	--
	28	T.	WII			40.782			9.48	0	8.0	--
1915												
June	28	Wy.	EI			40.728			8.89	0	7.0	3
July	2	Hd.	WI			40.783			7.21	0	8.0	3
	5	Hd.	WI			40.777			8.89	0	7.5	3
	22	Fn.	EI			40.804			8.48	0	8.0	3
Mean			1913.50	16	24	40.773	−27	43	8.57			
Corr						−0.081			0.00			

Pulkowa 1855, 2358

				h	m	s	°	′	″			
1913												
May	3	R.	EII	16	24	41.601	−14	21	14.40	0	6.0	3½
	5	Hd.	EII			41.600			14.69	0	6.0	3
	20	Fn.	WII			41.607			14.31	0	5.7	3
	24	R.	WII			41.610			14.24	0	6.0	4

[1] Declination observed first.

			h m s	° ′ ″			
1914							
May 6	Fn.	WI	41.649	-----	0	6.0	3
9	Fn.	WI	41.578	13.69	0	6.0	3
11	Hd.	WI	41.631	13.37	0	6.0	3
25	Fn.	EI	41.604	14.52	0	---	3½
June 2	Fn.	EI	41.605	14.26	0	6.0	2
Mean	1913.93		16 24 41.609	−14 21 14.18			
	1913.87						
Corr			−0.081	−0.12			

Bradley 2092

			h m s	° ′ ″			
1911							
May 27	T.	EII	16 24 44.275	−24 55 3.78	0	6.0	--
29	Fn.	WII	44.208	4.04	0	---	--
June 1	Fn.	WII	44.269	4.34	0	---	--
11	R.	EII	44.211	4.21	0	---	--
1915							
June 29	Hd.	EI	44.267	3.28	0	6.5	3
July 6	Fn.	WI	44.239	4.88	0	5.5	3
14	An.	WI	44.263	5.05	I	5.4	3
21	An.	EI	44.247	3.57	0	6.5	3½
Mean	1913.47		16 24 44.247	−24 55 4.14			
Corr			−0.081	−0.03			

Weisse$_2$ XVI 689

			h m s	° ′ ″			
1913							
May 8	Hd.	EII	16 24 56.980	+29 16 25.26	0	7.0	2
10	R.	EII	56.988	24.44	0	7.5	2
28	R.	WII	56.944	25.77	0	---	4
31	R.	WII	56.923	25.10	0	7.0	2
June 2	Hd.	WII	56.962	25.64	0	7.0	2
1914							
Apr. 30	Wy.	WI	56.933	25.25	0	7.0	2½
May 2	Fn.	WI	56.992	25.40	0	7.5	2½
June 5	Fn.	EI	56.945	24.92	0	7.0	2
6	Wy.	EI	56.967	25.55	0	6.5	2½
Mean	1913.83		16 24 56.959	+29 16 25.26			
Corr			−0.081	−0.25			

Weisse$_1$ XVI 429

			h m s	° ′ ″			
1912							
June 1	R.	WII	16 25 26.209	+6 10 1.78	0	7.0	1½
3	Fn.	WII	26.205	1.76	0	7.3	2
5	R.	EII	26.204	1.60	0	7.0	2
8	R.	EII	26.220	1.97	0	7.5	2½
1915							
June 25	Wy.	EI	26.235	1.99	0	7.5	3
27	Hd.	EI	26.205	2.14	0	7.5	3
July 9	Fn.	WI	26.146	1.67	0	7.0	2½
11	Fn.	WI	26.212	----	0	7.0	3
17	An.	WI	26.192	1.92	0	7.0	3
Mean	1914.14		16 25 26.203	+6 10 1.85			
	1913.97						
Corr			−0.081	−0.19			

N Scorpii

			h m s	° ′ ″			
1913							
Apr. 7	Fn.	WII	16 25 30.036	−34 30 33.53	0	---	4
17	R.	WII	29.978	33.36	0	6.0	3
30	R.	EII	29.945	33.35	0	---	5
May 1	Hd.	EII	30.018	32.76	0	---	5
2	Fn.	EII	29.928	33.63	0	---	4
1914							
Apr. 3	Fn.	WI	29.911	35.99	0	5.0	3½
9	Fn.	WI	29.899	33.07	0	5.0	3
23	Wy.	EI	29.989	32.39	0	---	4
27	Wy.	EI	30.013	32.31	0	5.5	3
May 26	Wy.	EI	29.921	32.69	0	---	3½
Mean	1913.81		16 25 29.964	−34 30 33.31			
Corr			−0.081	+0.12			

g Herculis

			h m s	° ′ ″			
1916							
Aug. 3	Hd.	WI	16 25 41.214	+42 4 -----	0	---	3
1918							
June 23	Wy.	WII	41.164	-----	I	4.9	2½
July 13	Wy.	EII	41.095	-----	I	4.4	2½
Mean	1917.87		16 25 41.158	+42 4 -----			
Corr			−0.081	-----			

β Herculis

			h m s	° ′ ″			
			16 26 20.962	+21 41 6.27			
1911			s	″			
June 18	R.	EII	−0.010	−0.19	I	---	--
26	Fn.	EII	+0.057	+0.58	I	3.1	--
29	Fn.	WII	+0.080	+0.19	I	3.1	--
30	Hd.	WII	+0.117	+0.62	I	2.7	--
July 1	R.	WII	+0.078	+0.48	I	2.4	--
3	Fn.	EII	+0.056	+0.36	I	2.6	--
5	R.	EII	+0.069	+0.41	I	1.9	--
6	Fn.	EII	+0.063	+0.16	I	3.1	2
9	R.	EII	+0.052	+0.31	I	3.4	2
10	Fn.	WII	+0.056	+0.25	0	---	--
12	R.	WII	+0.065	−0.41	0	---	2
14	Hd.	WII	+0.065	+0.25	I	2.7	2
15	R.	WII	+0.025	−0.69	II	2.1	1
17	Fn.	EII	+0.041	+0.62	I	3.1	--
19	R.	EII	+0.036	−0.16	I	2.9	2
20	Fn.	EII	+0.034	+0.38	I	2.7	--
22	R.	EII	+0.071	+0.70	I	2.4	2
24	Fn.	EII	+0.081	+0.33	I	---	3½
25	Hd.	EII	+0.064	+0.25	I	2.4	3
27	Fn.	WII	+0.036	+0.27	I	2.9	--
1912							
Feb. 2	*R.*	*WII*	-----	*−0.03* *−0.02*	*0*	---	--
7	*Fn.*	*EII*	*+0.052*	---- ----	*0*	---	*2*
12	*Hd.*	*EII*	*+0.038*	---- ----	*I*	---	*3*
May 25	R.	EII	+0.051	+0.91	II	2.6	1½
28	Hd.	WII	+0.057	−0.16	II	2.6	2
30	Fn.	WII	+0.036	+0.80	I	2.4	2½
Dec. 20	*R.*	*EII*	*+0.057*	*+0.20* *+0.28*	*0*	---	*3½*
22	*Fn.*	*WII*	*+0.019*	*+0.13* *+0.14*	*0*	---	*3*
25	*R.*	*WII*	-----	*−0.59* *−0.49*	*0*	---	*3*
27	*Hd.*	*WII*	*+0.013*	*+0.03* *+0.07*	*0*	---	*3*
1913							
Jan. 1	*R.*	*WII*	-----	*−0.17* *−0.14*	*0*	---	*3½*
12	*Fn.*	*WII*	-----	*+0.96* *+1.00*	*0*	---	*2½*
13	*R.*	*WII*	*+0.010*	*+0.22* *+0.24*	*0*	---	*3½*
14	*Fn.*	*WII*	*+0.050*	*+0.73* *+0.77*	*0*	---	*3*
21	*Fn.*	*EII*	*+0.044*	*+0.29* *+0.30*	*0*	---	*3½*
Apr. 8	R.	WII	+0.023	+0.08	0	---	2
29	Fn.	EII	+0.060	+0.90	I	2.9	2
June 9	Hd.	WII	+0.076	+0.18	I	2.4	3
10	R.	WII	+0.040	----	II	2.6	1½
12	Hd.	EII	+0.046	+0.66	I	2.9	2½
13	Fn.	EII	+0.029	+0.01	I	2.6	2
17	Fn.	EII	+0.083	−0.12	I	2.5	2
18	R.	EII	+0.045	+0.41	II	2.6	2
20	Fn.	EII	+0.056	+0.08	I	2.9	2
26	Hd.	EII	+0.065	+1.11	I	---	2
July 7	Hd.	WII	+0.084	+0.52	II	2.6	2
8	Fn.	WII	+0.040	−0.02	II	2.1	3
Dec. 11	*R.*	*EI*	*+0.055*	*−0.63* *−0.57*	*0*	---	--
14	*Fn.*	*WI*	*+0.026*	*+0.05* *+0.09*	*0*	---	*3*
17	*Fn.*	*WI*	*+0.094*	*+1.08* *+1.12*	*0*	---	*3*
19	*Hd.*	*WI*	*+0.051*	*+1.13* *+1.20*	*0*	---	*3½*
21	*Fn.*	*WI*	*+0.029*	*+0.25* *+0.26*	*0*	---	*3*
23	*Hd.*	*WI*	-----	*+0.53* *+0.54*	*0*	---	*3*
26	*Wy.*	*WI*	*+0.037*	*−1.74* *−1.68*	*0*	---	--
28	*Fn.*	*WI*	*+0.010*	*+0.90* *+0.94*	*0*	---	*3*
1914							
Jan. 14	*R.*	*EI*	-----	*−0.23* *−0.21*	*0*	---	--
21	*Hd.*	*WI*	*+0.053*	*+0.43* *+0.44*	*0*	---	*2½*
27	*Wy.*	*WI*	*+0.070*	*+0.29* *+0.30*	*0*	---	*3*
Feb. 7	*Wy.*	*EI*	*+0.055*	*−0.06* *−0.06*	*0*	---	*2½*
27	Fn.	EI	+0.037	----	I	2.9	2

				s	″	″			
1914									
Mar.	4	Wy.	WI	+0.085		+0.68	0	---	2½
May	21	Fn.	WI	+0.070		−0.42	I	2.9	2½
June	13	Wy.	EI	+0.060		----	II	3.1	2
	23	Hd.	WI	+0.040		+0.60	I	3.4	2½
	24	Wy.	WI	+0.054		+0.87	I	3.4	2½
	25	Fn.	WI	+0.010		+0.49	0	---	3½
	27	Wy.	WI	+0.039		+0.65	I	---	3
	29	Fn.	WI	+0.019		+0.92	I	2.9	2½
	30	Hd.	WI	+0.038		+1.07	I	2.9	3
July	2	Fn.	WI	+0.093		+0.31	0	---	2
	3	Hd.	WI	+0.058		+0.66	I	---	3
	8	Fn.	WI	+0.068		+0.32	I	2.9	1½
	10	Fn.	WI	+0.036		+0.49	0	---	3
	11	Hd.	WI	+0.061		+0.47	II	2.6	2
	15	Hd.	WI	+0.096		+0.54	II	2.6	2
	18	Hd.	EI	+0.040		+0.24	II	2.6	2
	19	Hd.	EI	+0.049		−0.07	II	2.6	2
	20	Fn.	EI	+0.014		+0.28	I	2.9	1½
	21	Hd.	EI	+0.030		−0.07	II	3.1	2
	22	Fn.	EI	+0.014		−0.18	I	2.9	2
Oct.	*21*	*An.*	*EI*	*+0.011*	----	----	*0*	---	*4*
Dec.	*16*	*Fn.*	*WI*	*+0.055*	*+0.11*	*+0.20*	*0*	---	*3½*
	27	*Fn.*	*WI*	-----	*+0.55*	*+0.65*	*0*	---	*3*
1915									
Jan.	*4*	*Wy.*	*EI*	*+0.063*	*−0.12*	*−0.11*	*0*	---	*3*
	6	*Hd.*	*EI*	*+0.102*	*−0.56*	*−0.51*	*0*	---	*3*
	7	*Wy.*	*EI*	*+0.098*	*−0.32*	*−0.28*	*0*	---	*3*
	8	*An.*	*EI*	*+0.047*	*+0.43*	*+0.46*	*0*	---	*2½*
	12	*An.*	*WI*	*+0.025*	----	----	*0*	---	*3½*
	13	*Hd.*	*WI*	*+0.042*	*+0.32*	*+0.39*	*0*	---	*2*
	14	*Fn.*	*WI*	*+0.035*	*+0.44*	*+0.47*	*0*	---	*3*
	28	*Wy.*	*EI*	*+0.070*	*+0.15*	*+0.17*	*0*	---	*3*
Apr.	26	Fn.	EI	+0.043		----	I	---	2
May	9	Wy.	EI	+0.066		----	II	2.1	2½
	31	Wy.	WI	+0.084		----	I	3.4	2
June	4	An.	WI	+0.032		----	II	3.6	2
	10	Fn.	EI	+0.072		----	I	2.9	2
	12	An.	WI	+0.061		----	II	3.1	2½
	17	Fn.	WI	+0.093		----	I	2.4	2½
	18	Hd.	WI	+0.049		----	I	---	2
	20	An.	EI	+0.082		----	I	---	--
	24	Fn.	EI	+0.073		−0.55	I	2.4	2
July	12	Hd.	WI	+0.059		----	I	---	2
	23	Hd.	EI	+0.044		+0.09	I	3.4	2
	24	An.	EI	+0.052		−0.15	II	3.6	2½
	27	Hd.	EI	+0.035		−0.09	I	---	2
Dec.	*6*	*Wy.*	*WI*	*+0.126*	*−0.58*	*−0.51*	*0*	---	*4*
	10	*Fn.*	*WI*	-----	*+0.46*	*+0.52*	*0*	---	*3½*
	14	*Fn.*	*WI*	*+0.132*	*+0.92*	*+0.98*	*0*	---	*3½*
1916									
Jan.	*18*	*Wy.*	*EI*	*+0.115*	*+0.06*	*+0.09*	*0*	---	*3*
Mar.	3	Hd.	WI	+0.043		----	I	2.9	2
	10	Fn.	WI	+0.095		−0.18	I	2.4	2½
Mean			1913.64	+0.054		+0.29			
			1913.26						
Corr				−0.081		−0.23			

λ Ophiuchi [1]

	h	m	s	°	′	″
	16	26	22.380	+2	10	48.85

1913									
Mar.	18	R.	WII	−0.023		−0.05	I	3.4	2
	22	R.	WII	0.000		+0.30	0	---	1½
Apr.	1	R.	EII	−0.020		−0.12	I	4.4	2½
	6	R.	WII	+0.041		+0.45	I	2.9	2½
	22	Fn.	EII	+0.072		−0.20	0	4.5	2
	25	Fn.	EII	−0.003		+0.20	I	3.9	1½
1914									
Mar.	3	Fn.	WI	+0.061		+1.02	0	---	3½
	13	Fn.	WI	+0.046		+0.47	I	3.9	2
	24	Fn.	EI	+0.034		−0.31	I	4.4	3
	26	Hd.	EI	−0.002		−0.22	I	---	3
Mean			1913.64	+0.021		+0.15			
Corr				−0.081		−0.18			

Weisse$_2$ XVI 781

	h	m	s	°	′	″
	16	27	44.890	+35	25	7.18

1911									
June	8	Fn.	WII				0	6.8	--
	9	Hd.	WII	44.907		5.94	0	6.0	--
	15	Fn.	EII	44.925		6.35	0	5.5	--
	20	Hd.	EII	44.909		6.01	0	6.0	--
1915									
May	17	Hd.	EI	44.918		5.69	0	6.5	2
	19	Fn.	EI	44.926		6.40	0	7.0	2
June	4	An.	WI	44.839		6.54	0	6.5	2
	12	An.	WI	44.915		6.81	0	6.0	2
Mean			1913.43	16 27 44.904		+35 25 6.36			
Corr				−0.081		−0.26			

A Draconis

	h	m	s	°	′	″
	16	28	9.220	+68	57	46.45

1911									
May	20	T.	WII	+0.05		−0.27	0	---	--
	22	Fn.	WII	+0.12		+1.51	0	---	--
	24	T.	EII	−0.08		+0.32	0	---	--
	25	Fn.	EII	+0.04		−0.60	0	---	--
1915									
June	9	An.	EI	+0.01		+0.48	I	5.9	2½
	10	Fn.	EI	+0.13		−0.09	0	5.0	2
	17	Fn.	WI	+0.07		+0.12	0	5.5	2½
	18	Hd.	WI	+0.08		+0.16	0	6.5	3
Mean			1913.42	+0.052		+0.20			
Corr				−0.081		−0.34			

A Draconis s. p.

	h	m	s	°	′	″
	16	28	9.219	+68	57	46.46

1912									
Jan.	27	R.	EII	−0.20		−0.92	0	---	4
Feb.	2	Hd.	WII	−0.04		+0.17	0	5.8	3
	4	Fn.	WII	+0.04		−0.03	0	---	4½
	6	Hd.	EII	+0.01		−0.56	0	5.5	4
1914									
Dec.	21	Fn.	WI	−0.02		−0.21	0	6.0	3½
	23	Hd.	WI	−0.05		−0.14	0	---	3½
1915									
Jan.	7	Hd.	EI	−0.15		+0.05	0	---	4
	8	Wy.	EI	0.00		−0.64	0	6.0	3½
	10	Wy.	WI	+0.13		−0.79	0	6.0	3
Mean			1913.71	−0.031		−0.34			
Corr				−0.081		+0.64			

τ Scorpii

	h	m	s	°	′	″
	16	30	16.632	−28	1	48.10

1911									
May	27	T.	EII	+0.106		+0.46	I	3.9	--
	29	Fn.	WII	+0.047		−0.28	I	2.4	--
June	1	Fn.	WII	+0.064		−0.66	I	3.4	--
	18	R.	EII	+0.013		−0.21	I	---	--
1915									
June	19	Wy.	WI	+0.039		−0.48	I	3.9	3½
	20	An.	EI	+0.060		+0.73	I	---	3½
	22	Wy.	EI	+0.079		+0.31	I	3.4	3½
July	2	Hd.	WI	+0.074		+1.34	I	4.4	3
Mean			1913.45	+0.060		+0.15			
Corr				−0.081		0.00			

Piazzi XVI 140

	h	m	s	°	′	″
	16	31	9.15	+61	0	42.61

1913									
Apr.	19	R.	WII				0	6.0	2
	20	R.	WII	9.19		42.28	0	6.0	2
	22	Fn.	EII	9.21		42.45	0	6.4	2
	25	Fn.	EII	9.29		43.15	0	6.0	1½

[1] Double; s. pr. component observed.

				h m s	° ′ ″				
1914									
May 6	Fn.	WI		9.27	-----	0	6.0	2	
9	Fn.	WI		9.28	42.61	0	6.0	2½	
11	Hd.	WI		9.29	42.03	0	7.0	3	
25	Fn.	EI		9.19	42.00	0	6.5	3	
June 2	Fn.	EI		9.18	42.42	0	6.0	2	
Mean	1913.90		16 31	9.228	+61 0 42.44				
	1913.84								
Corr				−0.081	−0.32				

σ Herculis

				h m s	° ′ ″				
				16 31 12.079	+42 37 19.68				
1913									
Apr. 29	Fn.	EII		+0.021	+0.75	0	4.5	3	
30	R.	EII		−0.010	+0.84	I	4.4	3	
May 24	R.	WII		−0.018	+0.97	I	3.9	2	
28	R.	WII		−0.025	+0.73	I	4.4	3½	
1914									
May 15	Wy.	WI		+0.007	+1.66	I	4.4	3	
16	Fn.	WI		−0.005	+1.15	I	4.4	2	
June 5	Fn.	EI		−0.002	+0.49	0	4.5	2	
6	Wy.	EI		+0.034	+1.20	I	4.4	--	
11	Fn.	EI		−0.006	+0.35	0	---	--	
1915									
June 29	Hd.	EI		+0.002	----	I	4.4	2	
July 9	Fn.	WI		−0.081	----	0	5.0	2	
12	Hd.	WI		+0.027	----	0	---	3	
23	Hd.	EI		−0.009	----	I	3.9	2	
27	Hd.	EI		+0.052	----	0	---	2	
1916									
Aug. 3	Hd.	WI		+0.052	----	0	---	3	
1918									
June 23	Wy.	WII		−0.031	----	I	3.4	2½	
July 13	Wy.	EII		−0.074	----	I	3.9	2	
Mean	1915.10			−0.004	+0.90				
	1913.95								
Corr				−0.081	−0.28				

B. D.+17° 3053

				h m s	° ′ ″				
1913									
May 1	Hd.	EII	16 31	24.266	+17 14 32.35	0	6.5	3	
2	Fn.	EII		24.253	32.52	0	6.5	3	
20	Fn.	WII		24.196	31.86	0	6.3	2½	
31	R.	WII		24.195	32.01	0	7.0	2	
1914									
Apr. 23	Wy.	EI		24.280	32.19	0	---	3	
27	Wy.	EI		24.219	32.47	0	6.5	2	
30	Wy.	WI		24.149	31.95	0	6.0	2½	
May 2	Fn.	WI		24.233	32.30	0	6.0	2	
June 13	Wy.	EI		24.215	31.92	0	6.5	2½	
Mean	1913.91		16 31	24.223	+17 14 32.17				
Corr				−0.081	−0.22				

Bradley 2108

				h m s	° ′ ″				
1911									
June 21	T.	EII	16 31	37.807	−2 7 60.16	0	---	--	
26	Fn.	EII		37.781	59.47	0	6.0	--	
27	Hd.	WII		37.786	59.76	0	6.5	--	
28	T.	WII		37.803	[56.62][1]	0	7.0	---	
1915									
June 24	Fn.	EI		37.872	60.70	0	6.5	3½	
25	Wy.	EI		37.945	60.77	0	7.0	3	
27	Hd.	EI		37.900	60.31	0	6.5	2½	
July 5	Hd.	WI		37.930	61.56	0	6.0	2½	
6	Fn.	WI		37.896	61.06	0	6.0	2½	
Mean	1913.71		16 31	37.858	−2 8 0.47				
	1913.99								
Corr				−0.081	−0.17				

ζ Ophiuchi

				h m s	° ′ ″				
				16 32 12.094	−10 23 7.36				
1912				s	″ ″				
June 10	Hd.–Fn.	EII		-----	−0.86	I	---	--	R.
10	Hd.–Fn.	EII		-----	−0.32	I	---	--	
11	Hd.–Fn.	EII		-----	−1.44	I	---	3	R.
11	Hd.–Fn.	EII		-----	−0.78	I	---	3	
13	Fn.–Hd.	EII		-----	−0.81	0	---	--	
20	Fn.–Hd.	EII		-----	−1.83	I	---	2	R.
20	Fn.–Hd.	EII		-----	−0.56	I	---	2	
July 2	Fn.–Hd.	EII		-----	−0.81	I	---	2	R.
2	Fn.–Hd.	EII		-----	−0.39	I	---	2	
3	Hd.–Fn.	WII		-----	−1.58	I	---	2	R.
3	Hd.–Fn.	WII		-----	−0.24	I	---	2	
5	Hd.–Fn.	WII		-----	−1.07	I	---	3	R.
5	Hd.–Fn.	WII		-----	−0.25	I	---	3	
6	Fn.–Hd.	WII		-----	−1.44	I	---	2	R.
6	Fn.–Hd.	WII		-----	−0.52	I	---	2	
8	Fn.–Hd.	WII		-----	−0.44	I	---	--	R.
8	Fn.–Hd.	WII		-----	−0.98	I	---	--	
1913									
May 3	R.	EII		+0.038	−0.78	0	---	5	
5	Hd.	EII		+0.019	−0.09	I	2.9	3	
8	Hd.	EII		+0.001	−0.40	II	3.1	2	
June 2	Hd.	WII		+0.040	+0.27	II	2.6	2	
4	R.	WII		+0.040	−0.45	I	2.9	3½	
1914									
June 24	Wy.	WI		+0.025	[−1.27]	I	---	3	
27	Wy.	WI		+0.022	−0.19	0	---	3	
29	Fn.	WI		+0.024	−0.52	I	2.9	3	
July 18	Hd.	EI		+0.050	+0.24	II	3.1	3	
19	Hd.	EI		+0.030	−0.07	II	3.1	2½	
1916									
June 26	Hd.	WI		+0.061	−0.24	I	2.9	2	
29	Hd.	WI		+0.050	+0.05	I	2.9	2	
July 6	Wy.	EI		+0.067	−0.47	I	3.4	3	
7	Fn.	EI		+0.024	−0.17	I	3.4	3	
11	Fn.	EI		+0.035	+0.16	I	2.4	3	
14	Fn.	EI		+0.029	−0.14	I	2.9	3	
18	Wy.	EI		+0.051	−0.27	I	3.4	2	
20	Hd.	EI		+0.054	−0.55	I	2.9	3	
Aug. 1	Fn.	WI		+0.017	−0.53	I	2.9	2	
4	Fn.	WI		+0.040	−0.95	I	3.4	3	
7	Wy.	EI		+0.022	−0.36	I	3.4	3	
22	*Fn.*	*EI*		*+0.041*	*−0.34*	*−0.32*	*0*	---	*3*
25	*Fn.*	*WI*		*+0.029*	*−0.49*	*−0.44*	*0*	---	*2½*
Sept. 28	*Wy.*	*WI*		*+0.044*	*−1.41*	*−1.35*	*0*	---	*3½*
Oct. 6	*Wy.*	*WI*		*+0.043*	*−1.31*	*−1.23*	*0*	---	*3½*
10	*Fn.*	*WI*		*+0.066*	*−1.09*	*−0.77*	*0*	---	*3½*
12	*Hd.*	*WI*		*+0.062*	*−1.02*	*−0.88*	*0*	---	*2½*
23	*Wy.*	*WI*		*+0.039*	*−1.20*	*−1.06*	*0*	---	*4*
Dec. 28	*Hd.*	*WI*		*+0.051*	*−1.15*	*−1.04*	*0*	---	*3*
1917									
Jan. 18	*Hd.*	*EI*		*+0.110*	*−1.53*	*−1.50*	*0*	---	*3½*
June 19	Fn.	WII		+0.047		−0.13	I	3.9	3
21	Wy.	WII		+0.065		−0.50	I	3.4	3
22	Fn.	WII		+0.056		−0.45	I	2.9	3
25	Wy.	WII		+0.012		−0.50	II	3.6	2½
July 6	Fn.	EII		+0.046		+0.27	I	---	2½
27	Hd.	EII		+0.024		−0.38	I	3.4	3
30	Wy.	EII		+0.058		−0.20	I	2.9	3
31	Fn.	EII		+0.025		−0.80	I	3.9	3
Aug. 3	Fn.	WII		+0.041		----	I	3.4	3
6	Hd.	WII		+0.056		+0.66	I	3.4	2½
9	*Hd.*	*WII*		*+0.020*	*+0.47*	*+0.52*	*I*	---	*2*
10	*Wy.*	*WII*		*+0.009*	*−0.51*	*−0.52*	*I*	---	*3*
13	*Fn.*	*WII*		*+0.022*	----	----	*0*	---	*2½*
20	*Fn.*	*WII*		*+0.004*	*−0.39*	*−0.33*	*0*	---	*2½*
Sept. 17	*Hd.*	*EII*		*+0.057*	*+0.03*	*+0.12*	*I*	---	*2*
20	*Hd.*	*WII*		*+0.055*	*−0.20*	*−0.07*	*0*	---	*3*
Oct. 2	*Fn.*	*WII*		*+0.065*	*−0.54*	*−0.39*	*0*	---	*3½*
1918									
Jan. 7	*Hd.*	*EII*		*+0.013*	*−0.60*	*−0.50*	*0*	---	*3½*
July 2	Hd.	WII		+0.068		−0.99	I	3.4	3
15	Wy.	EII		+0.035		+0.15	I	3.4	3

[1] Micrometer readings doubtful.

			s	"	"			
1918								
July 16	Hd.	EII	+0.039		−0.14	I	---	3
Aug. 15	*Fn.*	*WII*	*−0.006*	*−0.22*	*−0.20*	*I*	---	*2½*
16	*Hd.*	*WII*	*+0.010*	*−0.61*	*−0.53*	*I*	---	*2*
Mean	1916.24		+0.039		−0.32			
	1915.43							
Corr			−0.081		−0.14			

Weisse$_2$ XVI 943

			h	m	s	°	′	″			
1913											
May 10	R.	EII	16	33	4.199	+23	3	10.47	0	7.0	2½
June 5	Hd.	WII			4.172			10.89	0	7.0	2
6	Fn.	WII			4.144			10.45	0	7.0	2½
12	Hd.	EII			4.148			10.92	0	7.5	2
1914											
Mar. 13	Fn.	WI			4.139			10.13	0	7.0	2
24	Fn.	EI			4.137			9.58	0	7.0	2½
26	Hd.	EI			4.145			9.64	0	7.0	2½
Apr. 3	Fn.	WI			4.148			9.34	0	7.0	2
Mean	1913.82		16	33	4.154	+23	3	10.18			
Corr					−0.081			−0.24			

Weisse$_1$ XVI 570

			h	m	s	°	′	″			
1913											
June 9	Hd.	WII	16	33	12.304	−6	21	27.81	0	6.0	3
10	R.	WII			12.317			26.83	0	---	---
13	Fn.	EII			12.273			28.06	0	6.3	3
17	Fn.	EII			12.376			26.97	0	6.4	3
1914											
May 21	Fn.	WI			12.305			26.60	0	6.5	3
June 6	Wy.	EI			12.241			26.46	0	6.5	2½
13	Wy.	EI			12.320			26.11	0	6.5	2½
23	Hd.	WI			12.264			26.70	0	7.0	3
Mean	1913.94		16	33	12.300	−6	21	26.94			
Corr					−0.081			−0.16			

Groombridge 2362

			h	m	s	°	′	″			
1911											
July 1	R.	WII	16	33	33.615	+46	47	42.57	0	5.5	---
5	R.	EII			33.701			43.62	0	5.5	---
6	Fn.	EII			33.638			42.18	0	6.3	1½
12	R.	WII			33.704			43.53	0	---	---
1915											
May 17	Hd.	EI			33.615			42.72	0	6.0	2
19	Fn.	EI			33.638			42.10	0	6.0	2
June 4	An.	WI			33.617			42.59	I	5.9	2
12	An.	WI			33.604			42.67	0	6.0	2
Mean	1913.46		16	33	33.642	+46	47	42.75			
Corr					−0.081			−0.28			

Weisse$_1$ XVI 598

			h	m	s	°	′	″			
1911											
June 8	Fn.	WII	16	33	39.108	+13	52	7.30	0	6.4	---
9	Hd.	WII			39.163			7.39	0	6.5	---
15	Fn.	EII			39.157			----	0	6.5	---
20	Hd.	EII			39.131			7.29	0	6.5	---
1915											
June 19	Wy.	WI			39.136			7.07	0	6.5	3
28	Wy.	EI			39.142			6.94	0	6.8	2
29	Hd.	EI			39.096			7.20	0	---	2
July 2	Hd.	WI			39.111			7.07	0	7.5	2
Mean	1913.47		16	33	39.130	+13	52	7.18			
	1913.76										
Corr					−0.081			−0.22			

Lalande 30353

			h	m	s	°	′	″			
1913											
June 10	R.	WII	16	34	40.575	+43	44	37.46	D	---	---
18	R.	EII			40.631			37.32	0	7.5	1½
19	Hd.	EII			40.671			37.26	0	---	2
July 7	Hd.	WII			40.653			37.67	0	7.5	2

			h	m	s	°	′	″			
1914											
May 2	Fn.	WI			40.657			37.42	0	7.0	---
6	Fn.	WI			40.727			37.73	0	---	2
11	Hd.	WI			40.735			36.97	0	8.0	3
26	Wy.	EI			40.657			37.49	0	7.5	3
June 2	Fn.	EI			40.654			36.69	0	6.5	2
Mean	1913.97		16	34	40.662	+43	44	37.33			
Corr					−0.081			−0.28			

Bradley 2117

			h	m	s	°	′	″			
1911											
May 20	T.	WII	16	36	10.625	+4	23	41.04	0	---	---
22	Fn.	WII			10.524			41.02	0	---	---
24	T.	EII			10.555			41.18	0	---	---
25	Fn.	EII			10.546			41.14	0	---	---
1915											
July 8	Hd.	WI			10.540			40.26	0	6.0	3
9	Fn.	WI			10.552			40.50	0	6.0	2½
21	An.	EI			10.585			40.99	0	6.0	3
22	Fn.	EI			10.556			40.71	0	6.5	2½
Mean	1913.46		16	36	10.560	+4	23	40.86			
Corr					−0.081			−0.19			

Groombridge 2369

			h	m	s	°	′	″			
1911											
June 26	Fn.	EII	16	36	11.232	+56	11	29.81	0	6.0	---
29	Fn.	WII			11.276			28.23	0	6.0	---
30	Hd.	WII			11.249			28.33	0	5.8	---
July 3	Fn.	EII			11.247			28.19	0	6.2	---
1915											
June 25	Wy.	EI			11.306			27.90	0	6.0	2½
27	Hd.	EI			11.270			28.84	0	6.0	2
July 5	Hd.	WI			11.277			29.35	0	6.0	3
6	Fn.	WI			11.291			29.13	0	5.5	2
Mean	1913.50		16	36	11.268	+56	11	28.72			
Corr					−0.081			−0.30			

24 Scorpii

			h	m	s	°	′	″			
			16	36	21.948	−17	34	6.83			
1911											
May 27	T.	EII			+0.045			−0.71	0	6.0	---
29	Fn.	WII			+0.061			−0.79	0	5.0	---
June 1	Fn.	WII			+0.028			−0.89	0	5.0	---
11	R.	EII			+0.015			−0.94	0	---	---
1915											
June 9	An.	EI			+0.053			−0.47	0	7.0	3
10	Fn.	EI			+0.046			−0.92	0	5.5	2½
12	An.	WI			−0.034			+0.44	0	6.5	3
18	Hd.	WI			+0.058			+0.53	0	6.0	2½
Mean	1913.43				+0.034			−0.47			
Corr					−0.081			−0.09			

Schwerd 986

			h	m	s	°	′	″			
1911											
June 21	T.	EII	16	37	5.18	+79	58	30.81	0	7.5	---
22	Fn.	EII			5.08			31.10	0	7.6	---
27	Hd.	WII			5.22			30.79	0	7.0	---
28	T.	WII			5.27			31.82	0	7.5	---
1915											
June 19	Wy.	WI			5.29			30.96	0	7.0	3
20	An.	EI			5.21			31.28	0	7.5	3
22	Wy.	EI			5.35			31.01	0	7.0	3
July 2	Hd.	WI			5.24			30.86	0	7.5	2
Mean	1913.48		16	37	5.230	+79	58	31.08			
Corr					−0.081			−0.37			

Schwerd 986 s. p.

			h m s	° ′ ″			
1912							
Nov. 30	Hd.	WII	16 37 5.12	+79 58 29.29	0	7.5	3
Dec. 15	Fn.	EII	5.16	29.40	0	---	4
28	Hd.	WII	5.39	30.83	0	6.5	3
1913							
Jan. 21	Hd.	EII	5.20	30.36	0	7.0	3
1914							
Dec. 22	Wy.	WI	5.18	29.43	0	7.5	3½
1915							
Jan. 7	Hd.	EI	4.97	30.75	0	7.5	3½
8	Wy.	EI	5.15	29.91	0	---	3
10	Wy.	WI	5.20	29.81	0	7.5	3
13	An.	WI	----	30.61	0	7.5	3
Mean		1914.00	16 37 5.171	+79 58 30.04			
		1914.11					
Corr			−0.081	+0.48			

ζ Herculis [1]

			h m s	° ′ ″			
			16 37 53.382	+31 45 56.77			
1913							
May 2	Fn.	EII	+0.019	+0.36	I	2.5	3
3	R.	EII	+0.026	−0.64	I	2.9	3
20	Fn.	WII	−0.062	+0.14	I	2.7	2
28	R.	WII	0.000	−0.28	I	2.9	3
1914							
Mar. 24	Fn.	EI	−0.069	−0.19	I	2.9	2
26	Hd.	EI	−0.018	+0.09	I	2.9	3
Apr. 3	Fn.	WI	−0.011	0.00	I	2.4	2
30	Wy.	WI	−0.041	+0.03	I	2.9	2½
1915							
June 4	An.	WI	−0.023	----	I	---	2
July 16	Fn.	WI	−0.032	----	0	---	2½
23	Hd.	EI	−0.031	----	I	2.9	2
1916							
July 20	Hd.	EI	−0.076	----	I	2.9	2
31	Hd.	WI	−0.025	----	I	---	3
Aug. 3	Hd.	WI	+0.037	----	0	---	3
7	Wy.	EI	−0.031	----	I	3.4	2½
1917							
June 25	Wy.	WII	−0.015	----	I	3.4	2
Aug. 9	Hd.	WII	−0.030	----	I	---	2
1918							
June 23	Wy.	WII	−0.025	----	I	2.9	2
July 13	Wy.	EII	−0.116	----	I	3.4	2
Aug. 16	Hd.	WII	−0.024	----	I	2.9	2
Mean		1915.70	−0.027	−0.06			
		1913.82					
Corr			−0.081	−0.25			

Piazzi XVI 159

			h m s	° ′ ″			
1911							
June 8	Fn.	WII	16 39 22.365	−28 20 34.74	0	6.9	--
9	Hd.	WII	22.348	34.45	0	6.0	--
15	Fn.	EII	22.347	34.37	0	7.5	--
20	Hd.	EII	22.342	34.33	0	---	--
1915							
May 17	Hd.	EI	22.420	34.30	0	7.0	4
19	Fn.	EI	22.348	35.11	0	6.5	3
June 4	An.	WI	22.299	34.68	0	7.0	3
9	An.	EI	22.365	32.74	0	---	3½
12	An.	WI	22.324	34.61	0	7.0	3½
Mean		1913.65	16 39 22.351	−28 20 34.37			
Corr			−0.081	0.00			

η Herculis

			h m s	° ′ ″			
			16 39 48.612	+39 5 34.01			
1913							
May 8	Hd.	EII	+0.037	+0.53	I	2.9	2
10	R.	EII	+0.041	+0.74	I	3.9	2½
31	R.	WII	+0.006	+0.04	I	---	2
June 2	Hd.	WII	+0.019	+1.00	I	2.9	2

			s	″			
1914							
Mar. 3	Fn.	WI	+0.014	+0.03	0	---	3
4	Wy.	WI	+0.004	−0.31	0	---	2
7	Wy.	EI	+0.013	−0.26	I	3.9	2½
20	Fn.	EI	+0.074	+0.08	I	3.9	2
1915							
June 25	Wy.	EI	+0.056	----	I	3.9	2½
29	Hd.	EI	+0.015	----	I	3.4	2
July 6	Fn.	WI	−0.012	----	I	3.9	2
9	Fn.	WI	+0.019	----	I	3.4	2½
23	Hd.	EI	+0.008	----	I	2.9	2
1916							
June 26	Hd.	WI	+0.031	+0.26	I	3.4	2
29	Hd.	WI	+0.037	+0.13	I	2.9	2
July 3	Wy.	WI	+0.051	----	I	---	2½
6	Wy.	EI	+0.021	−0.31	I	3.4	2
7	Fn.	EI	-----	+0.20	I	3.9	2
11	Fn.	EI	+0.026	----	I	3.9	2½
20	Hd.	EI	+0.026	----	I	3.4	2
31	Hd.	WI	+0.002	----	0	---	3
Aug. 3	Hd.	WI	+0.070	----	0	---	3
7	Wy.	EI	−0.033	----	I	3.9	2½
1917							
June 25	Wy.	WII	+0.007	----	I	3.9	2
Aug. 9	Hd.	WII	+0.018	----	I	3.4	2
Oct. 20	*Hd.*	*EII*	*+0.102*	---- ----	*0*	---	*3½*
1918							
June 23	Wy.	WII	−0.006	----	I	3.4	2
July 13	Wy.	EII	−0.063	----	I	3.4	2½
25	Fn.	EII	+0.015	----	0	---	2½
Aug. 16	*Hd.*	*WII*	*+0.026*	---- ----	*I*	---	*2*
Mean		1915.83	+0.018	+0.18			
		1914.69					
Corr			−0.081	−0.27			

Piazzi XVI 177

			h m s	° ′ ″			
1913							
Mar. 11	R.	EII	16 40 32.382	+34 12 15.59	0	5.5	2
18	R.	WII	32.378	14.85	0	6.0	1½
22	R.	WII	32.433	15.78	0	7.0	1½
Apr. 1	R.	EII	32.382	15.10	0	7.0	2
1914							
Apr. 27	Wy.	EI	32.385	15.10	0	6.5	1½
May 2	Fn.	WI	32.447	15.44	0	6.0	2½
6	Fn.	WI	32.450	15.15	0	6.0	2
25	Fn.	EI	32.393	15.22	0	6.5	2½
Mean		1913.78	16 40 32.406	+34 12 15.28			
Corr			−0.081	−0.26			

Bradley 2131

			h m s	° ′ ″			
1913							
Apr. 8	R.	WII	16 41 30.561	+ 8 44 45.81	0	---	3
17	R.	WII	30.591	44.70	0	5.0	2
29	Fn.	EII	30.624	46.17	0	6.0	3
May 1	Hd.	EII	30.627	45.40	0	5.5	3½
1914							
May 16	Fn.	WI	30.603	45.61	0	5.5	2
18	Fn.	WI	30.591	45.98	0	5.5	3
26	Wy.	EI	30.615	45.91	0	5.7	3½
28	Fn.	EI	30.604	46.44	0	6.5	3
Mean		1913.85	16 41 30.602	+ 8 44 45.75			
Corr			−0.081	−0.21			

Bradley 2135

			h m s	° ′ ″			
1911							
May 20	T.	WII	16 42 37.476	+ 2 13 34.49	0	---	--
22	Fn.	WII	37.453	34.68	0	6.8	--
24	T.	EII	37.462	34.16	0	---	--
25	Fn.	EII	37.494	33.22	0	---	--

[1] Double; mean observed.

1915			h m s	° ′ ″			
June 10	Fn.	EI	37.453	34.44	0	6.0	2½
19	Wy.	WI	37.497	33.94	0	7.0	2½
20	An.	EI	37.484	34.38	0	7.0	3
July 2	Hd.	WI	37.450	33.74	0	7.0	2½
Mean	1913.43		16 42 37.471	+ 2 13 34.13			
Corr			−0.081	−0.18			

Bradley 2137

1913			h m s	° ′ ″			
June 5	Hd.	WII	16 43 20.589	+ 5 24 27.48	I	4.9	2
6	Fn.	WII	20.541	27.46	0	5.5	2½
12	Hd.	EII	20.562	27.16	0	6.0	3
13	Fn.	EII	20.494	26.39	0	5.6	2½
1914							
May 19	Wy.	WI	20.559	26.36	0	6.0	3
20	Hd.	WI	20.513	26.95	0	6.0	3
June 2	Fn.	EI	20.519	26.63	0	5.5	2
5	Fn.	EI	20.564	25.48	0	5.5	2
Mean	1913.92		16 43 20.543	+ 5 24 26.74			
Corr			−0.081	−0.19			

Groombridge 2377

			h m s	° ′ ″				
			16 43 35.402	+56 56 33.14				
1911								
May 27	T.	EII	−0.156	+0.34	I	4.9	--	
29	Fn.	WII	−0.101	+0.17	I	4.6	--	
June 1	Fn.	WII	−0.118	+0.42	I	4.4	--	
11	R.	EII	−0.145	+0.77	0	---	--	
1912								
June 10	Hd.–Fn.	EII	-----	−0.93	0	---	3	R.
10	Hd.–Fn.	EII	-----	−0.06	0	---	3	
11	Hd.–Fn.	EII	-----	−0.17	0	---	--	R.
11	Hd.–Fn.	EII	-----	+0.15	I	---	--	
13	Fn.–Hd.	EII	-----	−0.17	0	---	--	R.
13	Fn.–Hd.	EII	-----	+0.62	0	---	--	
20	Fn.–Hd.	EII	-----	−0.57	0	---	2	R.
20	Fn.–Hd.	EII	-----	+0.71	I	---	2	
July 2	Fn.–Hd.	EII	-----	+0.12	0	---	2	R.
2	Fn.–Hd.	EII	-----	−0.27	0	---	2	
3	Hd.–Fn.	WII	-----	+0.25	0	---	2	R.
3	Hd.–Fn.	WII	-----	−0.01	I	---	2	
5	Hd.–Fn.	WII	-----	+0.09	0	---	--	R.
5	Hd.–Fn.	WII	-----	+0.33	I	---	--	
6	Fn.–Hd.	WII	-----	−0.38	0	---	2	R.
6	Fn.–Hd.	WII	-----	+0.52	I	---	2	
8	Fn.–Hd.	WII	-----	+0.16	0	---	--	R.
8	Fn.–Hd.	WII	-----	+0.17	I	---	--	
1915								
June 28	Wy.	EI	−0.038	−0.33	I	4.4	2	
29	Hd.	EI	−0.047	+0.56	0	---	2	
July 5	Hd.	WI	−0.108	+0.21	I	4.9	2	
8	Hd.	WI	−0.092	+0.79	I	4.9	2½	
Mean	1913.46		−0.101	+0.30				
	1912.94							
Corr			−0.081	−0.31				

Lalande 30568

1911			h m s	° ′ ″			
June 21	T.	EII	16 44 5.914	−4 21 20.57	0	7.5	--
26	Fn.	EII	5.953	19.45	0	7.8	--
27	Hd.	WII	5.959	20.59	0	8.0	--
28	T.	WII	5.978	20.32	0	7.0	--
1915							
May 19	Fn.	EI	5.934	20.53	0	7.0	3
June 4	An.	WI	5.900	20.72	0	7.0	3
9	An.	EI	5.958	20.82	0	7.5	3½
12	An.	WI	5.910	20.56	0	8.0	3
Mean	1913.45		16 44 5.938	−4 21 20.44			
Corr			−0.081	−0.16			

Oeltzen 12851

1913			h m s	° ′ ″			
June 9	Hd.	WII	16 44 12.885	−21 41 41.98	0	7.5	3
10	R.	WII	12.873	41.76	0	7.5	2
18	R.	EII	12.834	40.18	0	---	--
19	Hd.	EII	12.865	41.69	0	---	2
21	R.	EII	12.859	40.69	0	---	2½
1914							
Apr. 30	Wy.	WI	12.860	41.19	0	7.5	2½
May 2	Fn.	WI	12.898	41.41	0	8.0	--
June 13	Wy.	EI	12.752	41.56	0	8.0	3
16	Hd.	EI	12.899	41.31	0	7.5	3½
Mean	1913.87		16 44 12.858	−21 41 41.31			
Corr			−0.081	−0.06			

ε Scorpii

			h m s	° ′ ″				
			16 44 19.695	−34 7 51.49				
1911								
July 1	R.	WII	+0.071	+0.82	I	3.4	--	
6	Fn.	EII	+0.054	+0.14	0	4.0	3½	
9	R.	EII	+0.098	+0.87	I	2.4	3½	
10	Fn.	WII	+0.101	+1.12	I	2.8	--	
1915								
June 22	Wy.	EI	+0.104	+0.25	I	3.4	3½	
24	Fn.	EI	-----	+1.93	I	3.9	3½	
27	Hd.	EI	+0.050	+1.20	I	---	4	
July 6	Fn.	WI	+0.020	+1.38	I	2.9	3	
14	An.	WI	+0.039	−0.42	I	---	3½	
Mean	1913.50		+0.067	+0.81				
	1913.72							
Corr			−0.081	+0.11				

20 Ophiuchi

1913			h m s	° ′ ″				
May 8	Hd.	EII	16 44 51.257	−10 37 28.37	I	4.9	2	
10	R.	EII	51.273	28.73	I	4.9	3	
20	Fn.	WII	51.226	28.35	0	5.0	2½	
June 4	R.	WII	51.263	28.84	0	5.5	4½	
1914								
Mar. 3	Fn.	WI	51.279	29.64	0	---	3½	
13	Fn.	WI	51.363	29.15	0	5.5	3	
24	Fn.	EI	51.219	28.40	0	5.0	3	
26	Hd.	EI	51.289	28.18	0	5.5	3	
Mean	1913.79		16 44 51.271	−10 37 28.71				
Corr			−0.081	−0.14				

μ^1 Scorpii

1911			h m s	° ′ ″				
June 8	Fn.	WII	16 45 -----	−37 53 39.1	I	---	--	
9	Hd.	WII	-----	37.9	I	---	--	
15	Fn.	EII	-----	38.3	0	---	--	
20	Hd.	EII	-----	37.4	0	---	--	
July 15	R.	WII	-----	37.7	I	---	4	
24	Fn.	EII	-----	36.6	0	---	4½	
25	Hd.	EII	-----	38.8	0	---	5	
27	Fn.	WII	-----	36.6	0	---	--	
28	Hd.	WII	-----	38.2	0	---	3½	
1912								
Feb. 27	Fn.	WII	-----	38.0	0	---	4	
1913								
Feb. 17	Hd.	EII	-----	38.2	0	---	4	
Apr. 17	R.	WII	-----	38.1	0	---	--	
19	R.	WII	-----	38.4	0	---	--	
29	Fn.	EII	-----	36.6	0	---	4½	
May 24	R.	WII	-----	36.9	0	---	--	
June 30	Hd.	EII	-----	37.5	I	---	3½	
July 1	Fn.	EII	-----	37.9	0	---	3½	
1914								
Apr. 10	Wy.	WI	-----	37.2	0	---	4½	
July 2	Fn.	WI	-----	38.2	0	---	4	
15	Hd.	WI	-----	36.2	0	---	4	

			h m s	° ′ ″			
1914							
July 18	Hd.	EI	-----	38. 3	0	---	3½
19	Hd.	EI	-----	37. 4	I	---	3½
20	Fn.	EI	-----	37. 6	0	---	3½
21	Hd.	EI	-----	37. 5	0	---	4
22	Fn.	EI	-----	36. 9	0	---	4½
27	Fn.	EI	-----	38. 9	0	---	3½
28	Hd.	EI	-----	35. 7	0	---	4
29	Fn.	EI	-----	38. 1	0	---	3½
31	Fn.	EI	-----	36. 2	0	---	3½
1915							
July 23	Hd.	EI	-----	37. 4	I	---	3½
24	An.	EI	-----	37. 1	0	---	4
1916							
June 29	Hd.	WI	-----	36. 5	0	---	3½
July 3	Wy.	WI	-----	37. 4	0	---	4
6	Wy.	EI	-----	38. 4	I	---	4½
7	Fn.	EI	-----	37. 9	0	---	3½
14	Fn.	EI	-----	38. 5	0	---	4
18	Wy.	EI	-----	38. 1	I	---	4½
20	Hd.	EI	-----	36. 6	0	---	4
27	Fn.	WI	-----	38. 6	0	---	3½
Aug. 1	Fn.	WI	-----	37. 5	0	---	3½
7	Wy.	EI	-----	38. 0	I	---	4
17	Fn.	EI	-----	38. 3	0	---	3½
22	Fn.	EI	-----	38. 0	0	---	3½
1917							
June 25	Wy.	WII	-----	37. 9	0	---	3½
Aug. 6	Hd.	WII	-----	38. 0	0	---	3
1918							
July 2	Hd.	WII	-----	37. 1	I	---	4
15	Wy.	EII	-----	37. 9	0	---	4
16	Hd.	EII	-----	37. 4	0	---	3½
Aug. 16	Hd.	WII	-----	36. 7	I	---	3½
Mean	1914. 75		16 45 -----	−37 53	37. 63		
Corr			-----		+0. 23		

Bradley 2145

			h m s	° ′ ″			
1911							
July 12	R.	WII	16 47 8. 188	+29 57	34. 13	0	5. 5 1½
14	Hd.	WII	8. 194		34. 70	0	--- 2
17	Fn.	EII	8. 176		34. 51	0	6. 8 2
19	R.	EII	8. 172		34. 32	0	6. 0 1½
1915							
June 10	Fn.	EI	8. 215		34. 05	0	7. 0 2½
12	An.	WI	8. 214		34. 98	0	6. 0 2
17	Fn.	WI	8. 179		34. 00	0	6. 0 2
20	An.	EI	8. 207		34. 79	0	5. 5 2½
Mean	1913. 49		16 47 8. 193	+29 57	34. 44		
Corr			−0. 081		−0. 25		

Oeltzen 16569

			h m s	° ′ ″			
1913							
Mar. 11	R.	EII	16 47 18. 732	+53 4	16. 86	0	7. 0 2
22	R.	WII	18. 744		16. 10	0	--- 1
Apr. 1	R.	EII	18. 724		16. 13	0	7. 0 2
8	R.	WII	18. 739		16. 08	0	7. 5 3
1914							
Mar. 20	Fn.	EI	18. 740		16. 35	0	7. 0 2½
Apr. 3	Fn.	WI	18. 855		16. 00	0	7. 0 2
27	Wy.	EI	18. 816		15. 93	0	7. 0 2
May 2	Fn.	WI	18. 844		16. 32	0	6. 5 2½
Mean	1913. 76		16 47 18. 774	+53 4	16. 22		
Corr			−0. 081		−0. 30		

49 Herculis

			h m s	° ′ ″			
			16 47 58. 975	+15 7	28. 41		
1911							
May 20	T.	WII	+0. 050		+0. 78	0	--- --
22	Fn.	WII	−0. 010		+0. 85	0	--- --
24	T.	EII	+0. 007		+0. 77	0	--- --
25	Fn.	EII	−0. 019		+0. 85	0	--- --
1915			s		″		
July 5	Hd.	WI	+0. 005		−0. 23	0	6. 5 2½
6	Fn.	WI	+0. 014		+0. 38	0	6. 5 2½
21	An.	EI	+0. 017		+0. 33	0	--- 2½
22	Fn.	EI	+0. 027		+1. 23	0	7. 0 3
Mean	1913. 46		+0. 011		+0. 62		
Corr			−0. 081		−0. 22		

B D+18° 3261

			h m s	° ′ ″			
1913							
May 1	Hd.	EII	16 48 41. 993	+18 12	42. 97	0	6. 5 3
2	Fn.	EII	41. 962		43. 13	0	7. 0 3
31	R.	WII	41. 924		42. 15	0	7. 0 3
June 2	Hd.	WII	41. 983		43. 42	0	6. 5 2
1914							
Apr. 30	Wy.	WI	41. 900		43. 39	0	6. 0 2½
May 6	Fn.	WI	42. 015		42. 61	0	6. 5 3
25	Fn.	EI	41. 948		42. 83	0	7. 5 3
26	Wy.	EI	41. 929		42. 92	0	6. 5 3
Mean	1913. 87		16 48 41. 957	+18 12	42. 93		
Corr			−0. 081		−0. 23		

Weisse$_2$ XVI 1461

			h m s	° ′ ″			
1911							
June 21	T.	EII	16 48 56. 810	+35 38	19. 72	0	7. 5 --
26	Fn.	EII	56. 921		21. 00	0	8. 0 --
27	Hd.	WII	56. 868		19. 29	0	8. 0 --
28	T.	WII	56. 859		19. 73	0	--- --
1915							
June 19	Wy.	WI	56. 822		20. 12	0	7. 5 2½
27	Hd.	EI	56. 804		19. 29	0	7. 5 3
28	Wy.	EI	56. 849		19. 17	0	7. 5 2
29	Hd.	EI	56. 828		19. 78	0	7. 8 2
July 2	Hd.	WI	56. 788		19. 95	0	8. 0 2
Mean	1913. 71		16 48 56. 839	+35 38	19. 78		
Corr			−0. 081		−0. 26		

53 Herculis

			h m s	° ′ ″			
1915							
July 9	Fn.	WI	16 49 33. 191	+31 51	-----	0	5. 5 2
23	Hd.	EI	33. 236		-----	0	6. 0 2
1916							
July 3	Wy.	WI	33. 234		-----	0	6. 0 2½
31	Hd.	WI	33. 195		-----	0	--- 3
1917							
June 25	Wy.	WII	33. 224		-----	0	6. 0 2
1918							
July 25	Fn.	EII	33. 164		-----	0	--- 2
Mean	1916. 70		16 49 33. 207	+31 51	-----		
Corr			−0. 081		-----		

Bradley 2146

			h m s	° ′ ″			
1911							
May 27	T.	EII	16 49 47. 053	−6 0	26. 71	0	6. 0 --
29	Fn.	WII	46. 988		26. 32	0	--- --
June 1	Fn.	WII	47. 041		26. 60	0	5. 0 --
18	R.	EII	47. 074		26. 55	0	--- --
1915							
May 19	Fn.	EI	47. 064		26. 91	0	5. 5 3
June 4	An.	WI	46. 986		26. 37	I	5. 4 3
9	An.	EI	46. 990		26. 60	I	5. 9 3
12	An.	WI	46. 993		25. 83	0	6. 5 3
Mean	1913. 42		16 49 47. 024	−6 0	26. 49		
Corr			−0. 081		−0. 16		

κ Ophiuchi

			h m s	° ′ ″			
			16 53 24. 370	+ 9 30	51. 54		
1911							
June 18	R.	EII	-----		−0. 07	II	--- --
23	Hd.	EII	+0. 021		−0. 64	0	--- --
26	Fn.	EII	+0. 061		−0. 29	0	--- --
July 9	R.	EII	+0. 076		----	I	3. 4 2

				s	"	"			
1911									
July	10	Fn.	WII	+0.026		----	I	3.3	--
	12	R.	WII	+0.006		----	I	---	--
	14	Hd.	WII	+0.022		+0.09	I	---	--
	15	R.	WII	−0.002		+0.42	I	2.4	1
	17	Fn.	EII	+0.050		+0.55	I	3.4	3
	19	R.	EII	+0.067		−0.14	I	3.9	1
	20	Fn.	EII	+0.027		+0.21	I	3.1	3
	22	R.	EII	+0.024		[−1.77][1]	I	2.4	1½
	24	Fn.	EII	+0.053		----	0	---	--
	25	Hd.	EII	+0.017		----	I	3.9	3
	27	Fn.	WII	+0.056		----	I	3.3	--
	28	Hd.	WII	+0.013		----	I	2.9	2
Aug.	8	R.	EII	+0.001		----	I	1.9	1
	9	Fn.	EII	+0.035		----	I	3.4	3
1912									
Feb.	*8*	*Hd.*	*EII*	*+0.027*	*+0.25*	*+0.25*	*0*	---	*3*
	9	*R.*	*EII*	*+0.053*	----	----	*0*	---	--
	12	*Hd.*	*EII*	*+0.058*	----	----	*0*	---	*3*
	18	*Fn.*	*WII*	-----	*+0.04*	*−0.04*	*0*	---	*1½*
June	1	R.	WII	+0.038		−0.62	I	2.9	1
1913									
Jan.	*13*	*R.*	*WII*	*−0.025*	*−0.51*	*−0.47*	*0*	---	*3*
	21	*Fn.*	*EII*	*+0.057*	*−0.18*	*−0.14*	*0*	---	*3*
	27	*R.*	*EII*	*−0..049*	*−0.95*	*−0.95*	*0*	---	*2*
Feb.	*5*	*R.*	*WII*	*−0.025*	*−0.56*	*−0.48*	*0*	---	*3½*
Mar.	11	R.	EII	−0.002		----	II	3.1	2
	22	R.	WII	+0.014		−0.08	I	---	1
Apr.	1	R.	EII	+0.027		−0.87	I	2.9	2
	8	R.	WII	+0.056		−0.25	I	---	3
	20	R.	WII	+0.054		----	I	3.4	2
	29	Fn.	EII	+0.051		----	I	3.4	3½
May	28	R.	WII	+0.019		----	I	2.9	3½
	31	R.	WII	+0.029		----	I	2.9	3
June	6	Fn.	WII	+0.021		----	I	2.9	2½
	9	Hd.	WII	+0.001		----	I	2.9	2½
	12	Hd.	EII	+0.047		----	I	3.4	3
	13	Fn.	EII	+0.022		−0.58	I	3.2	2
	17	Fn.	EII	+0.054		+0.05	I	2.9	2
	19	Hd.	EII	+0.026		−0.31	I	3.4	2
	21	R.	EII	+0.039		−0.19	I	2.4	3½
	26	Hd.	EII	+0.064		−0.02	I	3.4	2
	30	Hd.	EII	+0.058		−0.39	I	2.9	2
July	1	Fn.	EII	+0.016		----	I	3.2	2
	10	Fn.	WII	+0.005		−0.67	I	3.1	1½
Dec.	*14*	*Fn.*	*WI*	*+0.005*	*−0.74*	*−0.65*	*0*	---	*3½*
	18	*R.*	*WI*	*+0.033*	*−0.65*	*−0.47*	*0*	---	--
	29	*Wy.*	*WI*	*+0.045*	*+0.27*	*+0.34*	*0*	---	--
1914									
Jan.	*28*	*R.*	*WI*	*+0.026*	*0.00*	*+0.04*	*0*	---	--
Feb.	*1*	*Fn.*	*WI*	*−0.003*	*+0.84*	*+0.83*	*0*	---	*3*
	3	*Hd.*	*EI*	*+0.018*	*+0.10*	*+0.08*	*0*	---	*3*
	21	*Wy.*	*WI*	*+0.036*	----	----	*0*	---	*3*
Mar.	20	Fn.	EI	+0.025		+0.15	I	3.4	2½
	24	Fn.	EI	+0.057		+0.43	I	3.9	2½
May	9	Fn.	WI	+0.045		----	I	3.4	2½
	26	Wy.	EI	+0.055		----	I	3.4	3
	28	Fn.	EI	+0.028		----	0	---	2
June	2	Fn.	EI	+0.073		----	I	2.9	2
	5	Fn.	EI	+0.014		----	I	3.4	2
	6	Wy.	EI	+0.039		−0.27	I	2.9	2
	11	Fn.	EI	+0.004		−0.84	0	4.0	3½
	13	Wy.	EI	+0.037		----	II	3.6	2
	16	Hd.	EI	+0.021		----	I	2.9	3
	17	Wy.	EI	+0.025		+0.47	I	3.4	2
	20	Wy.	WI	+0.005		+0.29	0	---	2½
	23	Hd.	WI	+0.030		+0.57	I	3.9	2
	25	Fn.	WI	+0.050		+0.11	0	---	3
	27	Wy.	WI	+0.071		[−2.50][1]	I	---	3
	29	Fn.	WI	+0.016		+0.23	I	2.9	3
	30	Hd.	WI	+0.049		----	I	3.4	2
July	2	Fn.	WI	+0.030		----	I	3.4	2½
	3	Hd.	WI	+0.035		----	0	---	2½
	8	Fn.	WI	+0.052		−0.39	I	3.4	2
	9	Hd.	WI	+0.017		----	I	2.9	2
	10	Fn.	WI	+0.054		0.00	0	---	3
	11	Hd.	WI	+0.033		−0.40	I	2.9	3
	15	Hd.	WI	+0.011		----	I	3.4	2

				s	"	"			
1914									
July	16	Fn.	WI	+0.005		+0.65	0	4.5	2½
	17	Hd.	WI	+0.061		----	I	2.9	2
	18	Hd.	EI	+0.017		----	I	3.1	2
	19	Hd.	EI	+0.029		----	I	2.9	2
	20	Fn.	EI	−0.004		----	I	3.4	2
	21	Hd.	EI	+0.035		----	I	2.9	2½
	22	Fn.	EI	+0.005		----	I	3.4	2
	27	Fn.	EI	+0.015		----	I	3.4	1½
	28	Hd.	EI	+0.051		----	I	2.9	2½
	29	Fn.	EI	+0.037		----	0	---	2
	31	Fn.	EI	+0.020		----	I	---	--
1915									
Jan.	*4*	*Wy.*	*EI*	-----	*+0.24*	*+0.26*	*0*	---	*3*
	6	*Hd.*	*EI*	*+0.044*	*−0.29*	*−0.16*	*0*	---	*3*
	7	*Wy.*	*EI*	*+0.016*	*+0.24*	*+0.31*	*0*	---	*3*
	12	*An.*	*WI*	*+0.004*	*−0.91*	*−0.90*	*0*	---	*4*
	13	*Hd.*	*WI*	*+0.040*	*−0.40*	*−0.29*	*0*	---	*2*
	14	*Fn.*	*WI*	*+0.026*	----	----	*0*	---	*3½*
	20	*Wy.*	*EI*	*+0.078*	----	----	*0*	---	*3*
	21	*Fn.*	*EI*	-----	*+0.03*	*+0.08*	*0*	---	*3*
	28	*Wy.*	*EI*	*+0.073*	*+0.31*	*+0.39*	*0*	---	*3½*
June	10	Fn.	EI	+0.027		----	I	3.9	2
	12	An.	WI	+0.046		----	II	3.6	2½
	22	Wy.	EI	+0.046		----	I	3.4	3
	27	Hd.	EI	+0.080		----	I	2.9	3
	28	Wy.	EI	+0.044		+0.25	II	3.1	2½
	29	Hd.	EI	+0.032		----	I	3.9	2
July	2	Hd.	WI	+0.028		----	I	3.9	3
	5	Hd.	WI	+0.019		----	I	2.9	2
	6	Fn.	WI	+0.042		+0.73	I	2.9	2½
	8	Hd.	WI	+0.034		----	I	2.9	3
	9	Fn	WI	+0.024		−0.53	I	3.4	2½
	11	Fn.	WI	+0.034		−0.46	I	2.9	3
	14	An.	WI	+0.021		----	II	3.6	3
	16	Fn.	WI	+0.008		----	I	---	2½
	17	An.	WI	+0.055		----	I	---	3
	21	An.	EI	+0.052		+0.38	I	---	3
	22	Fn.	EI	+0.045		----	I	3.4	2½
	23	Hd.	EI	+0.026		----	I	3.4	2
	24	An.	EI	+0.045		----	I	---	2½
	27	Hd.	EI	+0.018		----	I	---	2
Dec.	*22*	*Wy.*	*WI*	*+0.069*	*−0.47*	*−0.41*	*0*	---	*3*
1916									
Jan.	*2*	*Hd.*	*EI*	*+0.027*	*−1.03*	*−0.95*	*0*	---	*3*
	3	*Fn.*	*EI*	*+0.110*	*+0.25*	*+0.30*	*0*	---	*3½*
	7	*Hd.*	*EI*	*+0.064*	*−0.51*	*−0.40*	*0*	---	*2½*
	18	*Fn.*	*EI*	*+0.033*	*+0.22*	*+0.33*	*0*	---	*3½*
	20	*Hd.*	*EI*	-----	*−0.22*	*−0.11*	*0*	---	*2½*
	23	*Hd.*	*EI*	*+0.021*	*−0.46*	*−0.39*	*0*	---	*2½*
Mean			1913.92	+0.033		−0.07			
			1913.62						
Corr				−0.081		−0.21			

Weisse$_1$ XVI 964

				h	m	s	°	′	″			
1911												
May	20	T.	WII	16	53	24.659	+14	1	18.69	0	---	--
	22	Fn.	WII			------			18.37	0	---	--
	24	T.	EII			24.587			18.15	0	---	--
	25	Fn.	EII			24.601			18.22	0	---	--
June	30	Hd.	WII			24.625			18.47	0	7.0	--
1915												
June	17	Fn.	WI			24.596			17.89	0	6.5	2½
	19	Wy.	WI			24.594			18.02	0	6.5	2
	20	An.	EI			24.596			18.43	0	7.0	3½
	24	Fn.	EI			24.589			18.02	0	6.5	2
Mean			1913.44	16	53	24.606	+14	1	18.25			
			1913.21									
Corr						−0.081			−0.22			

Weisse$_2$ XVI 1686

				h	m	s	°	′	″			
1913												
Apr.	17	R.	WII	16	53	58.210	+24	31	12.27	0	6.5	2
	19	R.	WII			58.190			12.99	0	6.5	2
	25	Fn.	EII			58.195			13.01	0	6.3	1½
	30	R.	EII			58.218			11.94	0	6.0	3

[1] Micrometer readings doubtful.

			h m s	° ′ ″				
1914								
Mar. 26	Hd.	EI	58.222		12.82	0	6.5	3
Apr. 3	Fn.	WI	58.166		11.80	0	6.0	2
27	Wy.	EI	58.246		12.43	0	6.5	2
May 2	Fn.	WI	58.250		12.24	0	6.0	2
Mean	1913.80		16 53 58.212	+24 31	12.44			
Corr			−0.081		−0.24			

ε Ursæ Minoris

h m s	° ′ ″
16 55 9.357	+82 11 12.15

			s	″	″				
1912									
Feb. 22	*R.*	*WII*	*−0.01*	*+0.39*	*+0.63*	*0*	---	--	
27	*Fn.*	*WII*	----	*+0.25*	*+0.14*	*0*	---	*3*	*R.*
27	*Fn.*	*WII*	*+0.25*	*+1.27*	*+1.16*	*0*	---	*3*	
29	*R.*	*WII*	----	*+1.73*	*+1.67*	*0*	---	*5*	*R.*
29	*R.*	*WII*	*+0.07*	*+0.48*	*+0.42*	*0*	---	*5*	
Mar. 10	Hd.	EII	−0.45		+0.86	I	3.4	3	
13	Hd.	EII	−0.26		+1.18	I	3.9	2	
1913									
Feb. 17	*Hd.*	*EII*	*+0.04*	*+0.26*	*+0.23*	*0*	---	*2*	
18	*R.*	*EII*	*+0.04*	*+1.22*	*+1.16*	*0*	---	*2*	
24	*Hd.*	*EII*	*0.00*	*0.00*	*−0.06*	*0*	---	*3*	
25	*R.*	*EII*	----	*+0.37*	*+0.35*	*0*	---	--	*R.*
25	*R.*	*EII*	*+0.12*	*+1.46*	*+1.44*	*0*	---	--	
Mar. 2	Fn.	EII	----		+0.58	0	---	3	R.
2	Fn.	EII	+0.03		+0.71	0	---	3	
11	R.	EII	−0.17		+1.12	I	4.0	2	
16	Fn.	WII	----		+2.15	0	---	3½	R.
16	Fn.	WII	−0.10		−0.37	0	---	3½	
17	Hd.	WII	+0.06		+0.43	I	3.4	2	
18	R.	WII	----		+1.82	0	---	2	R.
18	R.	WII	−0.22		+0.09	I	4.4	2	
21	R.	WII	+0.38		−0.06	I	3.9	2½	
1914									
Feb. 21	*Wy.*	*WI*	*+0.47*	*+0.91*	*+0.82*	*0*	---	*3*	
25	*Wy.*	*EI*	*−0.25*	*+0.69*	*+0.58*	*0*	---	*2*	
26	*Hd.*	*EI*	*+0.15*	*+0.84*	*+1.05*	*0*	---	*3*	
27	*Fn.*	*EI*	*+0.09*	*+0.40*	*+0.25*	*0*	---	*2½*	
Mar. 6	Fn.	WI	−0.11		+0.41	0	---	3½	
7	Wy.	EI	−0.05		+0.70	0	4.5	3	
13	Fn.	WI	+0.35		+0.21	0	---	3	
15	Hd.	WI	----		+0.51	0	---	3	R.
15	Hd.	WI	−0.06		+0.15	I	3.9	3	
Aug. 30	*Wy.*	*WI*	*+0.08*	*+0.10*	*+0.06*	*0*	---	*3*	
31	*Fn.*	*WI*	*+0.14*	----	----	*0*	---	*3½*	
Sept. 1	*An.*	*WI*	*+0.23*	*+1.75*	*+1.68*	*0*	---	*4*	
2	*Wy.*	*WI*	*+0.33*	*−0.05*	*−0.14*	*0*	---	*3*	
10	*An.*	*EI*	*−0.31*	*+1.01*	*+0.94*	*0*	---	*3*	
15	*An.*	*EI*	*−0.31*	*+0.30*	*+0.22*	*0*	---	*3*	
1915									
Sept. 9	*Wy.*	*WI*	*+0.37*	*+1.46*	*+1.41*	*0*	---	*3*	
1916									
Feb. 15	*Wy.*	*WI*	*+0.14*	*+1.14*	*+1.14*	*0*	---	*3½*	
27	*Fn.*	*WI*	*+0.06*	*+0.46*	*+0.41*	*0*	---	*3½*	
29	*Wy.*	*WI*	*+0.17*	*−0.07*	*+0.08*	*I*	---	*3*	
Mar. 3	Hd.	WI	+0.15		+2.01	I	4.4	3	
10	Fn.	WI	+0.06		+0.81	0	4.5	3	
11	Wy.	WI	+0.22		+1.18	I	4.4	2	
12	Fn.	WI	−0.20		+0.38	0	4.5	3	
16	Hd.	WI	+0.13		----	I	4.4	3½	
June 26	Hd.	WI	+0.32		+0.51	I	3.9	2	
July 7	Fn.	EI	+0.18		+0.31	0	---	3	
14	Fn.	EI	+0.04		+0.19	0	4.5	3	
Sept. 1	*Fn.*	*WI*	*+0.11*	*+1.20*	*+1.16*	*0*	---	*3*	
11	*Hd.*	*WI*	*+0.11*	*+0.27*	*+0.22*	*0*	---	*2*	
19	*Hd.*	*EI*	*−0.09*	*+0.30*	*+0.25*	*0*	---	*1*	
20	*Wy.*	*EI*	*−0.29*	*+0.32*	*+0.21*	*0*	---	*3*	
28	*Wy.*	*WI*	*+0.06*	*−0.18*	*−0.26*	*0*	---	*3½*	
Oct. 10	*Fn.*	*WI*	*+0.02*	*−0.20*	*−0.34*	*0*	---	*3½*	
Dec. 28	*Hd.*	*WI*	*+0.18*	*+0.29*	*+0.20*	*0*	---	*2½*	
1917									
Jan. 10	*Wy.*	*EI*	*−0.43*	*+0.66*	*+0.59*	*0*	---	*3½*	
Feb. 22	*Hd.*	*WI*	----	*+1.07*	*+0.99*	*0*	---	*3½*	
Mar. 5	Fn.	WI	+0.08		+0.23	0	5.0	2	
8	Fn.	WI	−0.04		−0.57	0	---	3	
Aug. 21	*Wy.*	*WII*	*−0.11*	*+0.42*	*+0.42*	*I*	---	*3*	

			s	″	″				
1917									
Aug. 25	*Wy.*	*EII*	*+0.15*	*+0.23*	*+0.16*	*0*	---	*3*	
Sept. 4	*Fn.*	*EII*	*+0.18*	*−0.44*	*−0.48*	*0*	---	*2*	
11	*Fn.*	*EII*	*+0.03*	*+0.31*	*+0.27*	*0*	---	*2½*	
1918									
Jan. 7	*Hd.*	*EII*	*+0.35*	*−0.15*	*−0.24*	*0*	---	*3*	
16	*Fn.*	*EII*	*+0.48*	----	----	*0*	---	*3½*	
Feb. 3	*Hd.*	*WII*	*+0.16*	*+1.56*	*+1.47*	*0*	---	*3*	
10	*Wy.*	*WII*	*−0.05*	*+0.80*	*+0.67*	*0*	---	*3½*	
13	*Wy.*	*WII*	*+0.25*	*−0.26*	*−0.17*	*0*	---	*3*	
26	*Hd.*	*EII*	*+0.25*	*+0.14*	*+0.17*	*I*	---	*2*	
28	*Hd.*	*EII*	*+0.20*	*+0.10*	*+0.03*	*0*	---	*3½*	
Mar. 3	Fn.	EII	+0.18		+0.27	0	4.5	2½	
7	Wy.	EII	−0.06		+0.84	I	3.9	3	
11	Fn.	WII	−0.11		+0.10	0	---	3	
Aug. 15	Fn.	WII	+0.13		+0.43	0	4.5	2½	
16	Hd.	WII	+0.15		−0.18	I	3.9	2½	
Mean	1915.44		+0.023		+0.46				
	1915.42								
Corr			−0.081		−0.38				

ε Ursæ Minoris s. p.

h m s	° ′ ″
16 55 9.356	+82 11 12.15

			s	″	″				
1912									
Feb. 22	R.	WII	−0.10		−1.30	0	---	4	
28	R.	WII	----		−0.19	0	---	5	R.
28	R.	WII	−0.11		+0.44	0	---	5	
Mar. 1	Hd.	WII	+0.11		+0.51	I	3.9	3	
2	*R.*	*WII*	----	*+0.67*	*+0.71*	*0*	---	--	*R.*
2	*R.*	*WII*	*−0.10*	*+0.86*	*+0.90*	*0*	---	--	
7	*Fn.*	*WII*	*−0.12*	*−0.49*	*−0.45*	*0*	---	*2½*	
13	*Hd.*	*EII*	*−0.05*	*+0.70*	*+0.74*	*0*	---	*3*	
1913									
Feb. 17	Hd.	EII	−0.37		+0.83	0	5.5	4	
18	Fn.	EII	----		−1.06	0	---	2	R.
18	Fn.	EII	+0.23		−0.67	0	---	2	
19	Hd.	EII	----		−0.72	0	---	3½	R.
19	Hd.	EII	−0.11		+0.27	I	4.4	3	
21	R.	EII	−0.16		−0.60	0	---	3½	
23	R.	EII	−0.29		−1.06	0	---	4½	
24	Hd.	EII	----		−0.46	0	---	--	R.
24	Hd.	EII	+0.20		−0.22	I	4.4	2	
28	R.	EII	−0.43		+0.39	I	4.9	3	
Mar. 3	R.	EII	+0.11		−0.93	0	---	--	
5	*R.*	*EII*	----	*−0.13*	*−0.30*	*0*	---	--	*R.*
5	*R.*	*EII*	*−0.13*	*−0.74*	*−0.91*	*0*	---	--	
6	*Hd.*	*EII*	*+0.19*	*−0.60*	*−0.45*	*0*	---	*3*	
7	*R.*	*EII*	*+0.27*	*−0.39*	*−0.30*	*0*	---	--	
8	*R.*	*EII*	----	*+0.27*	*+0.14*	*0*	---	--	*R.*
8	*R.*	*EII*	*+0.18*	*−0.61*	*−0.74*	*0*	---	--	
9	*R.*	*EII*	*+0.08*	*−1.09*	*−1.02*	*0*	---	--	
17	*Hd.*	*WII*	*+0.31*	*+0.67*	*+0.76*	*0*	---	*2*	
1914									
Feb. 17	Wy.	WI	−0.41		−0.26	0	5.5	3½	
21	Hd.	WI	+0.34		+0.14	I	3.9	2	
25	Hd.	EI	+0.15		−0.49	0	---	3	
26	Fn.	EI	+0.12		−0.34	0	5.5	2½	
Mar. 3	Wy.	WI	−0.20		−0.40	0	---	3	
4	Hd.	WI	+0.03		−0.64	0	---	4½	
7	*Hd.*	*EI*	*−0.12*	*−0.23*	*−0.10*	*0*	---	*3*	
10	*Wy.*	*WI*	*−0.28*	*+0.18*	*+0.18*	*0*	---	*3*	
Aug. 31	*Wy.*	*WI*	*+0.10*	*−0.42*	*−0.42*	*0*	---	*3*	
Sept. 1	*Wy.*	*WI*	*+0.09*	*−0.64*	*−0.67*	*0*	---	*3*	
3	*Fn.*	*WI*	*+0.02*	*−0.85*	*−0.98*	*0*	---	*3*	
9	*An.*	*EI*	----	*+0.04*	*+0.15*	*0*	---	*4*	
14	An.	EI	----		−0.59	I	3.8	3	
1915									
Feb. 10	Hd.	EI	----		−1.64	I	---	2	R.
17	Fn.–Wy.	EI	----		−0.63	0	---	3	R.
18	Hd.–An.	EI	----		−0.27	I	4.4	3	
19	Fn.–Wy.	EI	----		−0.50	0	5.0	2	
20	An.–Hd.	WI	----		−2.02	I	---	3	R.
21	An.–Hd.	WI	----		−0.10	I	5.4	3	
28	Wy.–Fn.	WI	----		−0.56	0	---	3	R.
Mar. 1	Wy.–Fn.	WI	----		+0.11	I	4.9	3½	
2	Wy.–Fn.	WI	----		−2.77	0	---	3	R.
Sept. 3	*Wy.*	*WI*	*+0.24*	*−0.49*	*−0.62*	*0*	---	*3*	

				s	″	″				
1916										
Feb.	15	Fn.	WI	+0.06		−1.18	0	5.5	2½	
	19	Hd.	WI	+0.16		−0.91	0	---	3	
	21	Fn.	WI	−0.33		−0.40	0	5.0	3	
Mar.	*4*	*Fn.*	*WI*	*+0.49*	*−1.17*	*−1.21*	*0*	---	*2½*	
	7	*Wy.*	*WI*	*−0.07*	*−0.67*	*−0.82*	*0*	---	*3½*	
	11	*Wy.*	*WI*	*+0.19*	*−0.85*	*−0.79*	*0*	---	*3½*	
	16	*Hd.*	*WI*	*+0.61*	----	----	*0*	---	*3*	
June	*22*	*Hd.*	*WI*	*−0.20*	*+1.10*	*+1.42*	*0*	---	*3½*	
Sept.	*7*	*Wy.*	*WI*	*−0.11*	*−1.49*	*−1.48*	*0*	---	*4*	
	10	Hd.	WI	+0.11		−0.29	0	---	3	
	18	Hd.	EI	+0.14		−0.11	0	5.5	3½	
	19	Wy.	EI	−0.23		+0.48	I	3.9	3	
Dec.	29	Hd.	WI	−0.19		−0.71	0	5.5	3	
1917										
Mar.	*6*	*Fn.*	*WI*	*+0.22*	*−0.23*	*−0.19*	*0*	---	*2½*	
	8	*Wy.*	*WI*	*−0.06*	*−0.30*	*−0.24*	*0*	---	*3½*	
	9	*Fn.*	*WI*	*+0.11*	*+0.32*	*+0.39*	*0*	---	*3*	
	15	*Wy.*	*EI*	*+0.19*	*−0.30*	*−0.27*	*0*	---	*3½*	
Aug.	*17*	*Wy.*	*WII*	*−0.06*	*+0.07*	*+0.07*	*0*	---	*3½*	
	20	*Wy.*	*WII*	*−0.36*	*+0.42*	*+0.22*	*0*	---	*3½*	
	24	*Wy.*	*EII*	*−0.11*	*−0.72*	*−0.83*	*0*	---	*3*	
Sept.	*10*	*Fn.*	*EII*	*+0.05*	*−0.48*	*−0.26*	*0*	---	*3*	
1918										
Jan.	10	Fn.	EII	+0.39		−1.75	0	5.0	3½	
	17	Fn.	EII	+0.16		----	0	---	3	
	29	Wy.	WII	−0.13		+0.72	I	4.4	3	
Feb.	11	Wy.	WII	−0.06		−0.48	0	5.0	4	
	12	Fn.	WII	+0.09		−0.05	0	---	4	
	14	Wy.	WII	+0.05		−0.28	0	5.0	3½	
	21	Fn.	EII	+0.27		−0.48	0	---	2½	
	28	Wy.	EII	+0.22		−0.24	0	---	3½	
Mar.	1	Hd.	EII	+0.31		−1.42	0	---	3½	
	5	*Hd.*	*EII*	*−0.27*	*−0.50*	*−0.27*	*0*	---	*3½*	
	7	*Fn.*	*EII*	*+0.11*	*−0.62*	*−0.51*	*0*	---	*2½*	
	8	*Wy.*	*EII*	*+0.04*	*−1.01*	*−0.86*	*0*	---	*3*	
Aug.	*14*	*Fn.*	*WII*	*+0.24*	----	----	*0*	---	*3*	
	15	*Hd.*	*WII*	*+0.04*	*+0.37*	*−0.05*	*0*	---	*3½*	
Mean		1915.30		+0.004		−0.35				
		1915.20								
Corr				−0.081		+0.46				

Bradley 2169

				h	m	s	°	′	″			
1913												
Apr.	20	R.	WII	16	55	31.92	+65	16	20.84	I	4.9	1½
May	1	Hd.	EII			31.98			19.79	I	4.9	3
	2	Fn.	EII			31.93			20.18	0	5.0	3
	20	Fn.	WII			32.01			20.11	0	5.0	2
1914												
May	6	Fn.	WI			32.09			20.30	0	---	3
	9	Fn.	WI			32.10			20.41	0	5.0	2½
	25	Fn.	EI			31.99			20.48	0	5.5	2½
	26	Wy.	EI			32.04			20.51	0	5.0	3
June	2	Fn.	EI			31.98			20.00	0	5.0	2
Mean		1913.92		16	55	32.004	+65	16	20.29			
Corr						−0.081			−0.33			

Groombridge 2406

				h	m	s	°	′	″			
1911												
July	6	Fn.	EII	16	55	42.58	+75	32	4.92	0	7.3	2
	9	R.	EII			42.68			5.25	0	---	---
	10	Fn.	WII			42.69			4.94	0	6.3	---
	12	R.	WII			42.62			4.49	0	6.5	2
1915												
June	8	Hd.	EI			42.73			4.94	0	7.5	3
	27	Hd.	EI			42.63			5.16	0	7.5	2
July	2	Hd.	WI			42.64			4.87	0	7.5	2
	5	Hd.	WI			42.67			5.15	0	7.5	3
Mean		1913.50		16	55	42.655	+75	32	4.96			
Corr						−0.081			−0.35			

Groombridge 2406 S. P.

				h	m	s	°	′	″			
1912												
Dec.	20	Fn.	EII	16	55	42.81	+75	32	3.94	0	7.8	4
	28	Hd.	WII			42.78			3.91	0	7.0	3½
1913												
Jan.	8	Fn.	WII			42.35			4.45	0	7.5	4
	14	R.	WII			42.52			4.86	0	7.5	1½
	18	Hd.	EII			42.47			5.81	0	---	4
1914												
Feb.	15	Fn.	WI			42.86			5.39	0	7.0	3
Dec.	17	Fn.	WI			42.73			2.68	0	7.0	2½
1915												
Jan.	4	Hd.	EI			42.63			4.78	0	7.5	3½
	7	Hd.	EI			42.44			4.36	0	7.5	3½
	13	An.	WI			-----			4.71	0	7.0	3
Mean		1913.80		16	55	42.621	+75	32	4.49			
		1913.92										
Corr						−0.081			+0.52			

30 Ophiuchi

				h	m	s	°	′	″			
				16	56	18.853	−4	5	17.92			
1911												
May	27	T.	EII			−0.060			+0.34	0	---	---
	29	Fn.	WII			−0.098			−0.19	0	4.8	---
June	1	Fn.	WII			−0.034			−0.68	0	---	---
	11	R.	EII			+0.039			+0.14	0	---	---
1915												
June	28	Wy.	EI			−0.045			+0.04	0	5.0	2½
	29	Hd.	EI			−0.048			+0.49	I	4.9	2
July	6	Fn.	WI			−0.059			+0.58	0	5.0	2½
	8	Hd.	WI			−0.059			−0.79	I	4.9	3
Mean		1913.46				−0.046			−0.01			
Corr						−0.081			−0.16			

Bradley 2158

				h	m	s	°	′	″			
1913												
May	5	Hd.	EII	16	56	35.276	−18	45	13.93	0	6.5	2
	8	Hd.	EII			35.236			14.18	0	7.0	2
	31	R.	WII			35.260			13.72	0	6.5	4
June	2	Hd.	WII			35.253			13.59	0	6.5	3
1914												
May	11	Hd.	WI			35.290			13.35	0	---	3
	15	Wy.	WI			35.265			14.53	0	7.0	3½
	16	Fn.	WI			35.263			14.59	0	6.5	2½
June	6	Wy.	EI			35.299			13.58	0	---	2½
	13	Wy.	EI			35.307			14.19	0	6.5	2½
Mean		1913.94		16	56	35.272	−18	45	13.96			
Corr						−0.081			−0.09			

ϵ Herculis

				h	m	s	°	′	″				
				16	56	50.724	+31	3	30.32				
1912													
June	10	Hd.–Fn.	EII			-----			−0.74	I	---	3	R.
	10	Hd.–Fn.	EII			-----			−0.21	I	---	3	
	11	Hd.–Fn.	EII			-----			−0.77	I	---	---	R.
	11	Hd.–Fn.	EII			-----			−0.06	I	---	---	
	13	Fn.–Hd.	EII			-----			−0.25	0	---	2	R.
	13	Fn.–Hd.	EII			-----			+0.50	0	---	2	
	20	Fn.–Hd.	EII			-----			−0.31	I	---	2	R.
	20	Fn.–Hd.	EII			-----			+0.35	I	---	2	
July	2	Fn.–Hd.	EII			-----			−0.12	I	---	2	R.
	2	Fn.–Hd.	EII			-----			−0.38	I	---	2	
	3	Hd.–Fn.	WII			-----			−0.12	I	---	---	R.
	3	Hd.–Fn.	WII			-----			+0.38	I	---	---	
	5	Hd.–Fn.	WII			-----			−0.40	I	---	---	R.
	5	Hd.–Fn.	WII			-----			−0.11	I	---	---	
	6	Fn.–Hd.	WII			-----			−0.41	I	---	2	R.
	6	Fn.–Hd.	WII			-----			+0.06	I	---	2	
	8	Fn.–Hd.	WII			-----			−0.88	I	---	2	R.
	8	Fn.–Hd.	WII			-----			−0.10	I	---	2	

			s	″			
1913							
May 10	R.	EII	+0.027	+0.28	I	4.4	2
June 6	Fn.	WII	+0.007	+0.23	I	4.4	2½
9	Hd.	WII	−0.008	+0.30	I	3.4	3
12	Hd.	EII	+0.026	−0.11	I	3.4	2
1914							
May 18	Fn.	WI	+0.038	−0.01	I	3.9	2
19	Wy.	WI	+0.047	+0.23	I	4.1	3
June 5	Fn.	EI	+0.018	+0.02	0	4.5	2
16	Hd.	EI	+0.020	+0.39	I	3.9	2
1915							
May 31	Wy.	WI	+0.006	----	I	3.9	2
July 27	Hd.	EI	+0.004	----	0	---	2
1917							
July 12	Fn.	EII	−0.028	----	0	---	2½
1918							
June 23	Wy.	WII	−0.064	----	I	3.4	2
July 25	Fn.	EII	−0.004	----	0	---	2
Mean	1915.14		+0.007	+0.10			
	1913.16						
Corr			−0.081	−0.25			

B. D.+39° 3071

			h	m	s	°	′	″			
1916											
July 3	Wy.	WI	16	57	-----	+39	2	28.60	0	7.5	2½
18	Wy.	EI			-----			27.42	0	7.5	2
Aug. 1	Fn.	WI			-----			28.70	0	8.0	2
7	Wy.	EI			-----			27.48	0	7.5	2
9	Wy.	EI			-----			27.49	0	7.0	2
Mean	1916.57		16	57	-----	+39	2	27.94			
Corr					-----			−0.27			

d Herculis

			h	m	s	°	′	″			
			16	58	16.924	+33	41	52.77			
1911											
May 20	T.	WII			+0.102			+0.65	0	---	--
22	Fn.	WII			+0.036			+0.43	0	---	--
24	T.	EII			+0.040			+0.14	0	---	--
25	Fn.	EII			+0.061			+0.36	0	---	--
1915											
May 31	Wy.	WI			+0.071			----	0	6.0	2
June 17	Fn.	WI			+0.074			−0.19	0	5.5	2
19	Wy.	WI			+0.104			+0.17	0	5.5	2½
20	An.	EI			+0.113			+0.80	0	6.0	2½
24	Fn.	EI			+0.103			−0.59	0	5.5	2
July 9	Fn.	WI			+0.058			----	0	5.5	2½
16	Fn.	WI			+0.090			----	0	5.5	2½
27	Hd.	EI			+0.062			----	0	---	2
1917											
July 12	Fn.	EII			+0.024			----	0	---	3
1918											
June 23	Wy.	WII			+0.045			----	0	5.0	2
July 25	Fn.	EII			+0.101			----	0	---	2
Aug. 16	Hd.	WII			+0.091			----	I	4.9	2
Mean	1915.17				+0.073			+0.22			
	1913.43										
Corr					−0.081			−0.26			

Piazzi XVI 292

			h	m	s	°	′	″			
1913											
June 10	R.	WII	17	0	46.302	+19	43	21.87	0	6.0	2
17	Fn.	EII			46.301			21.96	0	6.5	2
18	R.	EII			46.275			22.14	0	6.5	2
19	Hd.	EII			46.303			22.68	0	6.5	2
July 10	Fn.	WII			46.284			22.94	0	6.0	1½
1914											
June 11	Fn.	EI			46.294			22.01	0	6.0	2
13	Wy.	EI			46.275			22.08	0	6.5	2½
27	Wy.	WI			46.322			23.59	0	---	3
29	Fn.	WI			46.327			23.24	0	6.5	3
Mean	1913.91		17	0	46.298	+19	43	22.50			
Corr					−0.081			−0.23			

Bradley 2162

			h	m	s	°	′	″			
1911											
July 6	Fn.	EII	17	0	49.376	−21	26	25.64	0	6.5	2½
9	R.	EII			49.335			25.81	0	---	5
10	Fn.	WII			49.291			26.03	0	6.7	2
12	R.	WII			49.363			26.10	0	---	3
1915											
May 9	Wy.	EI			49.326			25.64	0	7.0	3½
19	Fn.	EI			49.337			26.70	0	6.5	3
31	Wy.	WI			49.300			26.21	0	6.0	3
June 12	An.	WI			49.276			26.24	0	7.0	3
Mean	1913.46		17	0	49.326	−21	26	26.05			
Corr					−0.081			−0.07			

60 Herculis

			h	m	s	°	′	″			
1913											
June 6	Fn.	WII	17	1	12.257	+12	51	49.79	0	5.2	2
9	Hd.	WII			12.277			50.13	I	4.9	3
21	R.	EII			12.276			49.90	0	5.0	3½
26	Hd.	EII			12.296			49.44	I	---	2
1914											
May 11	Hd.	WI			12.284			49.27	0	---	3
20	Hd.	WI			12.305			49.56	0	5.5	3
22	Wy.	EI			12.329			49.55	0	5.5	3
26	Wy.	EI			12.288			50.08	0	5.5	3
Mean	1913.92		17	1	12.289	+12	51	49.72			
Corr					−0.081			−0.22			

Piazzi XVI 284

			h	m	s	°	′	″			
1913											
June 30	Hd.	EII	17	1	18.506	−26	23	30.46	0	6.5	3
July 1	Fn.	EII			18.588			30.88	0	7.5	3½
7	Hd.	WII			18.506			29.81	0	7.5	3
8	Fn.	WII			18.546			30.52	0	7.0	3
1914											
June 16	Hd.	EI			18.585			29.93	0	7.0	3½
30	Hd.	WI			18.531			30.14	0	6.5	3
July 2	Fn.	WI			18.564			30.85	0	7.0	3
18	Hd.	EI			18.573			30.34	0	6.5	3
Mean	1914.00		17	1	18.550	−26	23	30.37			
Corr					−0.081			−0.02			

Piazzi XVI 307

			h	m	s	°	′	″			
1911											
May 27	T.	EII	17	2	20.411	+43	56	2.74	0	6.5	--
29	Fn.	WII			20.406			2.86	0	6.8	--
June 1	Fn.	WII			20.454			3.30	0	6.4	--
18	R.	EII			20.484			3.25	0	---	--
1915											
June 28	Wy.	EI			20.486			2.68	0	6.5	2
29	Hd.	EI			20.470			3.33	0	6.5	2
July 2	Hd.	WI			20.487			2.84	0	7.0	2
5	Hd.	WI			20.396			3.16	0	6.5	2½
Mean	1913.46		17	2	20.449	+43	56	3.02			
Corr					−0.081			−0.28			

Piazzi XVI 310

			h	m	s	°	′	″			
1911											
June 8	Fn.	WII	17	2	26.403	+48	55	40.96	0	6.3	--
9	Hd.	WII			26.456			40.16	0	6.0	--
15	Fn.	EII			26.446			39.27	0	6.3	--
20	Hd.	EII			26.479			39.65	0	---	--
1915											
June 17	Fn.	WI			26.507			39.32	0	6.0	2½
19	Wy.	WI			26.475			39.87	0	6.0	2½
24	Fn.	EI			26.521			38.74	0	6.0	2½
25	Wy.	EI			26.603			39.27	0	---	3½
Mean	1913.46		17	2	26.486	+48	55	39.66			
Corr					−0.081			−0.29			

Piazzi XVI 303

				h	m	s	°	′	″			
1911												
May	20	T.	WII	17	3	35.068	−0	57	40.75	0	---	--
	22	Fn.	WII			35.031			41.19	0	6.8	--
	24	T.	EII			35.021			-----	0	---	--
	25	Fn.	EII			35.046			40.77	0	---	--
June	23	Hd.	EII			35.021			41.76	0	---	--
1915												
July	6	Fn.	WI			35.039			41.29	0	6.0	2½
	8	Hd.	WI			35.033			40.99	0	6.0	3
	21	An.	EI			35.039			41.12	0	6.0	2½
	22	Fn.	EI			35.007			41.18	0	6.5	2½
Mean		1913.24		17	3	35.034	−0	57	41.13			
		1913.47										
Corr						−0.081			−0.18			

Weisse$_2$ XVII 46

				h	m	s	°	′	″			
1913												
May	8	Hd.	EII	17	4	35.139	+31	19	22.25	0	6.5	2
	10	R.	EII			35.198			22.52	0	6.5	2
	20	Fn.	WII			35.086			22.79	0	6.3	2
	31	R.	WII			35.079			22.79	0	6.5	3
1914												
May	11	Hd.	WI			35.118			22.37	0	---	3
	15	Wy.	WI			35.135			22.61	0	6.5	3
June	2	Fn.	EI			35.119			22.51	0	6.0	2
	5	Fn.	EI			35.117			22.56	0	6.5	2
Mean		1913.88		17	4	35.124	+31	19	22.55			
Corr						−0.081			−0.25			

Weisse$_2$ XVII 48

				h	m	s	°	′	″			
1911												
July	14	Hd.	WII	17	4	47.773	+28	21	9.74	0	---	--
	15	R.	WII			47.699			9.83	0	7.5	1
	20	Fn.	EII			47.740			9.66	0	7.3	--
	22	R.	EII			47.718			9.70	0	6.5	2½
1915												
June	4	An.	WI			47.723			9.67	0	7.0	2
	10	Fn.	EI			47.742			9.20	0	7.0	2
	12	An.	WI			47.711			9.67	0	7.5	2
	22	Wy.	EI			47.747			9.29	0	7.0	3
Mean		1913.50		17	4	47.732	+28	21	9.60			
Corr						−0.081			−0.25			

η Ophiuchi [1]

	h	m	s	°	′	″
	17	5	12.901	−15	36	50.17

				s	″	″				
1913										
June	4	R.	WII	+0.120		−0.97	I	---	3½	
	5	Hd.	WII	+0.107		−0.22	II	2.6	3	
	17	Fn.	EII	+0.063		−0.24	I	2.4	3	
	18	R.	EII	+0.077		+0.21	II	2.6	2	
1914										
June	6	Wy.	EI	+0.127		+0.04	I	2.9	3	
	11	Fn.	EI	+0.086		−0.53	I	2.9	3	
	29	Fn.	WI	+0.060		−0.46	I	2.4	3½	
	30	Hd.	WI	+0.102		−0.48	I	2.9	3	
1916										
July	14	Fn.	EI	+0.072		−0.25	I	2.9	3	
	18	Wy.	EI	+0.060		−0.40	I	3.9	2½	
	31	Hd.	WI	+0.091		----	0	---	3	
Aug.	1	Fn.	WI	+0.079		----	I	---	3	
	4	Fn.	WI	+0.068		−1.06	I	3.4	3	
	7	Wy.	EI	+0.110		+0.74	I	3.4	3	
	17	Fn.	EI	+0.094		+0.02	I	2.9	3	
	18	Wy.	EI	+0.070		−0.58	I	3.9	2½	
	22	Fn.	EI	+0.109		−0.42	I	3.4	2½	
	25	*Fn.*	*WI*	*+0.053*	*−0.50*	*−0.49*	*I*	---	*3*	
Sept.	*11*	*Hd.*	*WI*	*+0.086*	*+0.10*	*+0.16*	*I*	---	*2*	
	19	*Hd.*	*EI*	*+0.050*	*+0.21*	*+0.27*	*0*	---	*2½*	
	20	*Wy.*	*EI*	*+0.085*	*−0.67*	*−0.52*	*0*	---	*3*	
1916										
Sept.	*28*	*Wy.*	*WI*	*+0.062*	*−1.33*	*−1.21*	*0*	---	*3*	
Oct.	*10*	*Fn.*	*WI*	*+0.060*	*−0.57*	*−0.41*	*0*	---	*3½*	
	17	*Fn.*	*WI*	*+0.034*	*−1.54*	*−1.39*	*0*	---	*3½*	
	23	*Wy.*	*WI*	*+0.094*	*−0.91*	*−0.77*	*0*	---	*4*	
	26	*Wy.*	*EI*	*+0.092*	*−0.52*	*−0.25*	*0*	---	*4*	
	27	*Hd.*	*EI*	*+0.082*	*−0.78*	*−0.50*	*0*	---	*3½*	
1917										
Feb.	*22*	*Hd.*	*WI*	-----	*−1.26*	*−1.12*	*0*	---	*3½*	
Mar.	*5*	*Fn.*	*WI*	*+0.154*	*+0.22*	*+0.22*	*I*	---	*3*	
June	25	Wy.	WII	+0.071		−0.29	I	3.4	2	
July	12	Fn.	EII	+0.090		−0.28	0	---	3	
	27	Hd.	EII	+0.082		+0.18	I	3.4	3	
	30	Wy.	EII	+0.076		−0.55	I	3.4	3	
	31	Fn.	EII	+0.080		−0.49	I	3.4	3	
Aug.	3	Fn.	WII	+0.081		−0.24	I	3.4	2½	
	6	Hd.	WII	+0.094		+0.25	I	3.4	2½	
	9	Hd.	WII	+0.102		+0.43	I	---	3	
	10	Wy.	WII	+0.054		−0.07	II	2.6	3	
	13	Fn.	WII	+0.075		−0.38	I	---	3	
	17	Wy.	WII	+0.052		−0.33	I	3.4	3	
	20	Fn.	WII	+0.049		−0.31	I	3.9	2½	
	25	*Wy.*	*EII*	*+0.107*	*+0.31*	*+0.41*	*I*	---	*3*	
Sept.	*4*	*Fn.*	*EII*	*+0.113*	*0.00*	*+0.05*	*0*	---	*3*	
	11	*Fn.*	*EII*	*+0.074*	*+0.03*	*+0.09*	*0*	---	*2½*	
Oct.	*2*	*Fn.*	*WII*	*+0.079*	*+0.37*	*+0.54*	*0*	---	*3*	
1918										
Jan.	*7*	*Hd.*	*EII*	*+0.012*	*+1.33*	*+1.46*	*0*	---	*3½*	
Feb.	*3*	*Hd.*	*WII*	*+0.190*	*+0.08*	*+0.24*	*0*	---	*3*	
	26	*Hd.*	*EII*	*+0.171*	*−0.55*	*−0.56*	*I*	---	*3*	
	28	*Hd.*	*EII*	*+0.159*	*+0.31*	*+0.42*	*0*	---	*3½*	
July	15	Wy.	EII	+0.042		+0.56	I	3.4	3	
	16	Hd.	EII	+0.081		−0.60	I	3.4	3	
	25	Fn.	EII	+0.108		+0.58	I	2.9	3	
Aug.	5	Wy.	WII	+0.069		−1.07	I	3.4	3	
	15	Fn.	WII	+0.034		−0.70	I	2.9	2½	
	16	Hd.	WII	+0.091		+0.21	I	2.9	2	
Mean		1916.67		+0.081		−0.23				
		1916.68								
Corr				−0.081		−0.11				

η Scorpii

	h	m	s	°	′	″
	17	5	-----	−43	7	18.32

1911									
July	25	Hd.	EII	-----	−0.1	0	---	5	
	27	Fn.	WII	-----	+1.5	0	---	4	
	28	Hd.	WII	-----	+1.1	0	---	4½	
Aug.	9	Fn.	EII	-----	−1.2	0	---	--	
1913									
Mar.	11	R.	EII	-----	−1.0	0	---	--	
	17	Hd.	WII	-----	0.0	0	---	4	
	18	R.	WII	-----	−2.2	0	---	--	
	21	R.	WII	-----	+3.2	0	---	--	
Apr.	19	R.	WII	-----	+3.6	0	---	--	
	30	R.	EII	-----	+1.7	0	---	--	
1914									
July	18	Hd.	EI	-----	+0.3	0	---	4	
	19	Hd.	EI	-----	−0.5	0	---	5	
	20	Fn.	EI	-----	+0.6	0	---	4½	
	21	Hd.	EI	-----	−2.0	0	---	5	
	27	Fn.	EI	-----	+2.0	0	---	4	
	28	Hd.	EI	-----	+1.0	0	---	4	
	31	Fn.	EI	-----	+1.4	0	---	4	
1915									
June	9	An.	EI	-----	−1.1	0	---	--	
July	14	An.	WI	-----	−2.4	0	---	4	
Mean		1913.61		-----	+0.31				
Corr				-----	+0.55				

Weisse$_1$ XVII 40

				h	m	s	°	′	″			
1911												
July	10	Fn.	WII	17	6	51.627	−14	30	35.57	0	7.4	2½
	12	R.	WII			51.684			35.33	0	7.0	3
	17	Fn.	EII			51.598			34.60	0	7.5	3½
	19	R.	EII			51.621			35.45	0	7.5	2½

[1] Double; mean observed.

1915			h	m	s	°	′	″			
June 17	Fn.	WI			51.595			35.95	0	7.0	3
18	Hd.	WI			51.611			35.19	0	---	2½
28	Wy.	EI			51.620			35.21	0	7.5	2½
29	Hd.	EI			51.595			34.52	0	7.8	2½
Mean	1913.50		17	6	51.619	−14	30	35.23			
Corr					−0.081			−0.11			

B. D.+38° 2892

1916			h	m	s	°	′	″			
July 3	Wy.	WI	17	7	-----	+38	50	51.93	0	7.0	2½
6	Wy.	EI			-----			50.66	0	7.0	2
7	Fn.	EI			-----			50.95	0	7.5	2
Aug. 1	Fn.	WI			-----			51.88	0	7.5	2
Mean	1916.53		17	7	-----	+38	50	51.36			
Corr					-----			−0.27			

Weisse$_1$ XVII 62

1913			h	m	s	°	′	″			
Apr. 20	R.	WII	17	7	24.817	+8	0	13.97	0	6.5	2
22	Fn.	EII			24.800			13.52	0	6.5	2½
25	Fn.	EII			24.845			13.48	0	6.3	2
May 24	R.	WII			24.851			12.93	0	6.0	2
1914											
Mar. 26	Hd.	EI			24.811			13.47	0	6.2	2½
Apr. 3	Fn.	WI			24.849			13.16	0	6.5	2
May 16	Fn.	WI			24.855			13.92	0	6.5	2½
22	Wy.	EI			24.831			13.37	0	6.0	2½
Mean	1913.82		17	7	24.832	+8	0	13.48			
Corr					−0.081			−0.20			

ζ Draconis

			h	m	s	°	′	″			
			17	8	31.456	+65	49	31.46			
1911					s			″			
May 27	T.	EII			−0.10			−0.22	I	3.9	--
29	Fn.	WII			−0.05			+0.65	I	3.2	--
June 1	Fn.	WII			−0.16			+0.54	I	3.6	--
18	R.	EII			+0.03			+0.16	I	---	--
1912											
Feb. 29	*R.*	*WII*			----		*−0.38*	*−0.41*	*0*	---	--
Mar. 10	Hd.	EII			----			−0.06	II	2.6	2
1915											
July 6	Fn.	WI			+0.04			+1.12	I	3.4	2½
9	Fn.	WI			−0.06			+0.45	I	3.4	2½
22	Fn.	EI			+0.03			+0.67	I	3.4	2½
23	Hd.	EI			−0.02			+0.31	I	2.9	2
Mean	1913.48				−0.036			+0.40			
	1913.34										
Corr					−0.081			−0.33			

ζ Draconis s. p.

			h	m	s	°	′	″			
			17	8	-----	+65	49	31.47			
1912											
Feb. 28	R.	WII			-----			−0.4	0	---	5
Mar. 1	Hd.	WII			-----			+0.9	0	---	4
2	R.	WII			-----			+1.8	0	---	--
Oct. 5	R.	EII			-----			−0.4	0	---	5
Dec. 14	R.	EII			-----			+0.3	0	---	2
1913											
Feb. 18	Fn.	EII			-----			−1.1	0	---	3½
19	Hd.	EII			-----			−0.2	0	---	4
21	R.	EII			-----			0.0	0	---	--
23	R.	EII			-----			+0.2	0	---	--
24	Hd.	EII			-----			−0.1	I	---	4
28	R.	EII			-----			+1.5	0	---	--
Mar. 3	R.	EII			-----			−1.1	0	---	--
5	R.	EII			-----			−0.7	0	---	--
7	R.	EII			-----			−0.7	0	---	--
1913					s			″			
Mar. 8	R.	EII			-----			−1.4	0	---	--
9	R.	EII			-----			−1.6	0	---	--
Dec. 3	R.	EI			-----			+0.8	0	---	--
12	Fn.	EI			-----			−1.7	0	---	5
29	Fn.	WI			-----			−1.3	0	---	3
1914											
Jan. 5	R.	EI			-----			+1.3	0	---	--
6	Fn.	EI			-----			−0.3	0	---	4
29	R.	WI			-----			−0.2	0	---	--
Feb. 9	Fn.	EI			-----			−0.5	0	---	4½
Mar. 12	Fn.	WI			-----			+0.3	0	---	3½
1916											
Jan. 25	Fn.	EI			-----			−1.6	0	---	3½
Feb. 3	Hd.	EI			-----			−1.3	I	---	4
10	Fn.	WI			-----			−0.1	0	---	3½
Mar. 4	Fn.	WI			-----			−1.6	0	---	3½
Mean	1913.70				-----			−0.33			
Corr					-----			+0.72			

Weisse$_2$ XVII 189

1911			h	m	s	°	′	″			
June 8	Fn.	WII	17	9	48.873	+21	32	10.24	0	6.7	--
9	Hd.	WII			48.907			9.66	0	6.5	--
15	Fn.	EII			48.865			9.39	0	7.0	--
20	Hd.	EII			48.895			9.31	0	6.5	--
1915											
May 19	Fn.	EI			48.886			9.36	0	7.0	2
31	Wy.	WI			48.896			9.95	0	6.5	2½
June 9	An.	EI			48.902			9.48	0	6.5	3
12	An.	WI			48.937			9.85	0	7.0	2
Mean	1913.44		17	9	48.895	+21	32	9.66			
Corr					−0.081			−0.23			

B. D.+39° 3091

1916			h	m	s	°	′	″			
July 6	Wy.	EI	17	10	-----	+39	5	22.14	0	7.0	2
14	Fn.	EI			-----			22.64	0	7.0	2
Aug. 1	Fn.	WI			-----			23.41	0	7.0	2
4	Fn.	WI			-----			22.70	0	7.0	2
Mean	1916.56		17	10	-----	+39	5	22.72			
Corr					-----			−0.27			

α Herculis [1]

			h	m	s	°	′	″			
			17	10	32.586	+14	29	32.32			
1911					s			″			
June 23	Hd.	EII			+0.072			−0.34	I	3.4	--
July 18	Hd.	EII			+0.053			+0.10	I	---	2
20	Fn.	EII			+0.059			----	I	---	--
22	R.	EII			−0.002			----	I	2.9	1
29	R.	WII			+0.060			−0.07	I	1.9	1½
31	Fn.	WII			+0.077			+0.34	I	3.2	2
Aug. 8	R.	EII			+0.005			+0.10	I	1.9	1
9	Fn.	EII			+0.064			−0.16	I	3.9	--
1912											
Feb. 2	*R.*	*WII*			-----		*+0.26*	*+0.28*	*0*	---	*5*
7	*Fn.*	*EII*			*+0.057*		----	----	*0*	---	*2*
8	*Hd.*	*EII*			*+0.079*		*+0.42*	*+0.42*	*0*	---	*3*
9	*R.*	*EII*			*+0.036*		----	----	*0*	---	--
12	*Hd.*	*EII*			*+0.010*		----	----	*0*	---	*3*
18	*Fn.*	*WII*			-----		*+0.64*	*+0.59*	*0*	---	*1½*
22	*R.*	*WII*			*−0.023*		----	----	*0*	---	--
June 1	R.	WII			+0.039			+0.46	II	2.6	1
July 27	Fn.	WII			+0.023			+0.44	I	2.8	2
Aug. 5	Fn.	EII			+0.031			−0.14	I	2.6	2
7	Fn.	EII			+0.048			−0.08	I	3.1	2
12	Fn.	EII			+0.034			+0.43	I	3.3	2
23	Fn.	WII			+0.060			−0.14	I	2.9	3
1913											
Jan. 12	*Fn.*	*WII*			-----		*−0.08*	*+0.01*	*0*	---	*3*
21	*Fn.*	*EII*			*+0.001*		*+0.37*	*+0.38*	*0*	---	*3*
27	*R.*	*EII*			*+0.021*		*−0.36*	*−0.34*	*0*	---	*2*

[1] Double; n. pr. component observed.

				s	″	″			
1913									
Feb.	*3*	*Hd.*	*WII*	*+0.020*	*+0.35*	*+0.32*	*0*	---	*3*
	5	*R.*	*WII*	*+0.024*	*−0.30*	*−0.24*	*0*	---	*3½*
	6	*Fn.*	*WII*	*+0.026*	*−0.09*	*−0.09*	*0*	---	*3*
Mar.	22	R.	WII	+0.066		−0.32	I	---	2
Apr.	1	R.	EII	+0.036		−0.09	I	3.4	2
	8	R.	WII	+0.021		----	0	---	2½
	29	Fn.	EII	+0.025		----	I	3.7	3½
May	28	R.	WII	+0.051		−0.15	I	2.9	3½
June	4	R.	WII	+0.075		+0.26	I	3.4	2
	24	Fn.	EII	+0.054		−0.33	0	---	2½
	30	Hd.	EII	+0.018		+0.28	I	2.9	2
July	1	Fn.	EII	+0.044		−0.45	I	3.4	2
	4	Hd.	EII	+0.043		−0.11	I	---	2
	8	Fn.	WII	+0.004		+0.14	I	2.7	2
	10	Fn.	WII	+0.017		+0.35	I	2.9	2
	11	Hd.	WII	+0.061		0.00	I	3.4	3
	14	Fn.	WII	−0.017		−0.28	I	3.2	2½
Dec.	*26*	*Wy.*	*WI*	*−0.001*	----	----	*0*	---	--
	28	*Fn.*	*WI*	*+0.019*	*+0.02*	*+0.07*	*0*	---	*3½*
	29	*Wy.*	*WI*	*+0.091*	*+0.17*	*+0.22*	*0*	---	--
1914									
Jan.	*20*	*Hd.*	*WI*	*+0.010*	*+0.11*	*+0.12*	*0*	---	*3½*
	28	*R.*	*WI*	*+0.032*	*−1.18*	*−1.14*	*0*	---	--
Feb.	*1*	*Fn.*	*WI*	*+0.010*	*+0.33*	*+0.34*	*0*	---	*3*
	3	*Hd.*	*EI*	*+0.048*	*−0.50*	*−0.52*	*0*	---	*3*
	21	*Wy.*	*WI*	*+0.011*	*+0.65*	*+0.67*	*0*	---	*3*
	25	*Wy.*	*EI*	-----	*−0.34*	*−0.29*	*0*	---	*2*
Mar.	7	Wy.	EI	+0.036		----	I	3.9	3
	18	Wy.	WI	-----		+0.19	I	3.4	3
	20	Fn.	EI	+0.075		−0.23	I	3.9	3
	24	Fn.	EI	+0.036		----	I	3.4	2½
May	9	Fn.	WI	+0.038		+0.62	I	2.9	2½
June	15	Fn.	EI	+0.024		−0.39	I	---	3
	27	Wy.	WI	+0.057		+0.37	I	---	3
July	3	Hd.	WI	+0.075		+0.34	II	---	2½
	9	Hd.	WI	+0.033		+0.13	I	2.9	2
	10	Fn.	WI	+0.043		+0.40	I	---	3
	11	Hd.	WI	+0.063		+0.44	II	---	2
	15	Hd.	WI	+0.045		+0.25	I	---	2½
	17	Hd.	WI	+0.044		+0.65	I	---	3
	18	Hd.	EI	+0.046		0.00	II	3.3	2
	19	Hd.	EI	+0.029		+0.18	II	3.1	2
	20	Fn.	EI	+0.005		+0.45	I	2.9	2
	21	Hd.	EI	+0.040		+0.23	I	2.9	3
	22	Fn.	EI	+0.012		+0.41	I	3.4	2½
	28	Hd.	EI	+0.013		+0.66	II	3.1	2
	31	Fn.	EI	+0.032		+0.44	I	---	2
Aug.	13	Hd.	WI	+0.049		+0.24	0	---	3
	14	Wy.	WI	+0.030		−0.18	I	3.4	2½
	30	*Wy.*	*WI*	*+0.065*	*+0.40*	*+0.42*	*I*	---	*3*
	31	*Fn.*	*WI*	*+0.043*	*−0.91*	*−0.89*	*I*	---	*2½*
Sept.	*1*	*An.*	*WI*	*+0.043*	*+1.20*	*+1.24*	*I*	---	*3*
	2	*Wy.*	*WI*	*+0.060*	*−0.05*	*+0.01*	*I*	---	*3*
1915									
Jan.	*4*	*Wy.*	*EI*	*+0.040*	*+0.05*	*+0.06*	*0*	---	*3½*
	6	*Hd.*	*EI*	*+0.049*	*−0.57*	*−0.52*	*0*	---	*3½*
	7	*Wy.*	*EI*	*+0.086*	*−0.53*	*−0.47*	*0*	---	*3*
	8	*An.*	*EI*	*+0.032*	*+0.62*	*+0.66*	*0*	---	*2½*
	14	*Fn.*	*WI*	*−0.002*	*+0.37*	*+0.37*	*0*	---	*3½*
	19	*Hd.*	*EI*	-----	*+0.09*	*+0.14*	*0*	---	*3*
	20	*Wy*	*EI*	*+0.057*	*+1.04*	*+1.08*	*0*	---	*3*
	21	*Fn.*	*EI*	-----	*−0.12*	*−0.04*	*0*	---	*3*
	28	*Wy.*	*EI*	*+0.065*	*−0.35*	*−0.27*	*0*	---	*3½*
May	9	Wy.	EI	+0.013		----	II	3.1	3
June	25	Wy.	EI	+0.077		----	I	3.9	3½
July	2	Hd.	WI	+0.031		----	I	3.4	2
	5	Hd.	WI	+0.034		----	I	2.9	3
	8	Hd.	WI	+0.018		----	II	3.1	2½
	12	Hd.	WI	+0.032		+0.01	0	---	3
	14	An.	WI	+0.039		+0.25	II	3.6	2½
	16	Fn.	WI	+0.004		−0.34	I	3.9	2½
	17	An.	WI	+0.049		+0.15	II	3.6	3
	21	An.	EI	+0.025		+0.39	II	3.6	2
	24	An.	EI	+0.074		+0.38	II	3.6	2½
	27	Hd.	EI	+0.034		----	I	---	2
Sept.	*9*	*Wy.*	*WI*	*+0.018*	----	----	*I*	---	*3*

				s	″	″			
1916									
Jan.	*2*	*Hd.*	*EI*	*+0.026*	*−0.02*	*+0.06*	*0*	---	*3*
	3	*Fn.*	*EI*	*+0.043*	*+0.39*	*+0.45*	*0*	---	*3½*
	7	*Hd.*	*EI*	*+0.053*	*−0.25*	*−0.16*	*0*	---	*3*
	13	*Wy.*	*EI*	*+0.041*	*0.00*	*+0.07*	*0*	---	*3½*
	18	*Fn.*	*EI*	*−0.059*	*+0.05*	*+0.17*	*0*	---	*3½*
	20	*Hd.*	*EI*	-----	*−0.15*	*−0.06*	*0*	---	*2½*
	23	*Hd.*	*EI*	*+0.069*	*+0.06*	*+0.12*	*0*	---	*3*
Feb.	*15*	*Wy.*	*WI*	*+0.051*	*−0.55*	*−0.53*	*0*	---	*3½*
	27	*Fn.*	*WI*	*+0.011*	*−0.54*	*−0.51*	*0*	---	*3*
Mar.	10	Fn.	WI	+0.008		----	I	---	2½
	11	Wy.	WI	+0.072		----	II	3.1	2
	16	Hd.	WI	+0.040		----	I	2.9	3
Mean			1913.98	+0.039		+0.13			
			1913.79						
Corr				−0.081		−0.22			

Weisse$_1$ XVII 113

				h	m	s	°	′	″			
1913												
June	5	Hd.	WII	17	10	44.154	−9	42	24.49	0	7.0	2
	6	Fn.	WII			44.161			24.82	0	---	3½
	18	R.	EII			44.120			24.52	0	7.0	2½
	26	Hd.	EII			44.129			24.56	0	---	2
1914												
May	15	Wy.	WI			44.195			24.67	0	7.5	3
	18	Fn.	WI			44.141			24.64	0	7.0	2½
June	5	Fn.	EI			44.159			24.46	0	7.0	3
	6	Wy.	EI			44.192			24.42	0	6.5	3
Mean			1913.93	17	10	44.156	−9	42	24.57			
Corr						−0.081			−0.14			

139 G. Scorpii

				h	m	s	°	′	″			
1911												
July	24	Fn.	EII	17	11	12.264	−32	33	42.72	0	---	--
	25	Hd.	EII			12.305			42.62	0	5.5	4½
	27	Fn.	WII			12.303			43.40	0	6.2	3½
	28	Hd.	WII			12.356			42.45	0	7.0	3½
1915												
June	10	Fn.	EI			12.308			41.73	0	7.0	3
	17	Fn.	WI			12.235			43.12	0	6.0	3
	19	Wy.	WI			12.270			43.88	0	6.0	3½
	20	An.	EI			12.283			43.03	0	7.5	3½
Mean			1913.51	17	11	12.290	−32	33	42.87			
Corr						−0.081			+0.08			

δ Herculis [1]

				h	m	s	°	′	″			
				17	11	20.041	+24	56	40.14			
1913						s		″	″			
June	9	Hd.	WII			−0.005			−0.15	I	2.9	3
	10	R.	WII			+0.011			−0.87	I	2.9	2
	17	Fn.	EII			+0.076			−0.68	I	2.7	2
	19	Hd.	EII			+0.064			−0.38	I	3.4	2
1914												
June	16	Hd.	EI			+0.021			−0.34	I	3.4	3
	17	Wy.	EI			+0.007			+0.22	I	3.4	2½
	20	Wy.	WI			−0.005			+0.61	I	---	2
	23	Hd.	WI			+0.032			+0.63	I	---	2
1916												
July	18	Wy.	EI			+0.013			−0.24	0	---	2½
	27	Fn.	WI			+0.020			−0.67	0	---	3
	31	Hd.	WI			+0.022			----	0	---	2
Aug.	7	Wy.	EI			+0.024			−0.41	I	3.4	2½
	17	Fn.	EI			+0.014			−0.44	I	3.9	2½
	22	Fn.	EI			+0.027			−0.52	I	3.9	2½
	25	*Fn.*	*WI*			*+0.027*	*+0.38*		*+0.38*	*I*	---	*2½*
Sept.	*11*	*Hd.*	*WI*			*+0.022*	*−0.04*		*−0.03*	*I*	---	*2*
	19	*Hd.*	*EI*			*−0.010*	*−0.36*		*−0.35*	*I*	---	*1½*
	20	*Wy.*	*EI*			*+0.032*	*−0.13*		*−0.11*	*0*	---	*3*
	28	*Wy.*	*WI*			*+0.030*	*−0.45*		*−0.43*	*0*	---	*3*
Oct.	*10*	*Fn.*	*WI*			*−0.018*	*−0.21*		*−0.18*	*0*	---	*2½*
	12	*Hd.*	*WI*			*+0.017*	*−0.29*		*−0.26*	*0*	---	*2*

[1] Double: n. fol. component observed.

				s	″	″				
1916										
Oct. 17	*Fn.*	*WI*		*+0.048*	*−0.57*	*−0.54*	*0*	---		*3½*
23	*Wy.*	*WI*		*+0.063*	*−0.92*	*−0.89*	*0*	---		*3½*
26	*Wy.*	*EI*		*+0.014*	*−0.68*	*−0.64*	*0*	---		*4*
27	*Hd.*	*EI*		*−0.004*	*−0.66*	*−0.61*	*0*	---		*3*
Nov. 3	*Fn.*	*EI*		*+0.026*	*−0.08*	*−0.03*	*0*	---		*3½*
Dec. 28	*Hd.*	*WI*		*+0.057*	*−0.17*	*−0.14*	*0*	---		*3*
1917										
Jan. 1	*Wy.*	*WI*		*+0.033*	*+0.09*	*+0.17*	*0*	---		*3½*
10	*Wy.*	*EI*		*+0.044*	*−0.15*	*−0.10*	*0*	---		*3½*
Feb. 22	*Hd.*	*WI*		-----	*+0.20*	*+0.23*	*0*	---		*3*
Mar. 5	*Fn.*	*WI*		*+0.098*	*+0.20*	*+0.20*	*I*	---		*2*
8	*Fn.*	*WI*		*+0.061*	*−0.86*	*−0.86*	*0*	---		*3*
June 25	Wy.	WII		+0.052		−0.44	I	3.	4	2
July 27	Hd.	EII		+0.030		0.00	I	3.	4	3
30	Wy.	EII		+0.017		+0.22	I	3.	4	2½
31	Fn.	EII		+0.007		+0.31	0	---		2½
Aug. 6	Hd.	WII		+0.059		−0.33	I	3.	4	2
9	Hd.	WII		+0.008		−0.39	0	---		3
10	Wy.	WII		+0.031		−0.28	I	3.	4	2½
13	Fn.	WII		+0.009		−0.64	I	---		2½
17	Wy.	WII		+0.027		−0.47	I	2.	9	2½
20	Fn.	WII		+0.039		−0.53	I	3.	9	2
21	Wy.	WII		−0.016		−0.59	I	3.	4	2½
Sept. 4	*Fn.*	*EII*		*+0.036*	*+0.41*	*+0.42*	*0*	---		*2*
11	*Fn.*	*EII*		*+0.022*	*−0.29*	*−0.28*	*0*	---		*2*
Oct. 2	*Fn.*	*WII*		*+0.028*	*−0.19*	*−0.16*	*0*	---		*2½*
15	*Fn.*	*EII*		*−0.003*	*+0.11*	*+0.14*	*0*	---		*3½*
Nov. 1	*Hd.*	*EII*		*+0.031*	*−0.58*	*−0.55*	*0*	---		*2½*
1918										
Jan. 7	*Hd.*	*EII*		*+0.054*	*+0.26*	*+0.28*	*0*	---		*3*
16	*Fn.*	*EII*		*+0.039*	*+0.09*	*+0.09*	*0*	---		*3½*
Feb. 3	*Hd.*	*WII*		*+0.069*	*+0.06*	*+0.09*	*0*	---		*3*
10	*Wy.*	*WII*		*+0.018*	*−0.66*	*−0.62*	*0*	---		*3½*
20	*Fn.*	*EII*		*+0.046*	*−0.05*	*−0.01*	*0*	---		*3*
26	*Hd.*	*EII*		*+0.086*	*−0.04*	*−0.04*	*I*	---		*2*
Mar. 11	Fn.	WII		−0.032		−1.22	0	---		3
July 15	Wy.	EII		+0.066		+0.33	I	3.	4	2
16	Hd.	EII		−0.008		+0.19	I	3.	4	3
25	Fn.	EII		+0.016		+0.27	I	2.	9	2½
Aug. 5	Wy.	WII		+0.025		−0.74	I	3.	4	2½
15	Fn.	WII		+0.021		−0.43	I	2.	9	2
16	Hd.	WII		+0.015		−0.20	I	3.	4	2
Mean		1916.70		+0.021		−0.26				
		1916.71								
Corr				−0.081		−0.24				

Piazzi XVII 61

				h	m	s	°	′	″			
1913												
May 5	Hd.	EII		17	11	45.96	+62	58	38.02	0	6.	0 2
8	Hd.	EII				45.97			37.54	0	6.	0 2
20	Fn.	WII				45.94			37.32	0	6.	0 2
24	R.	WII				45.90			37.60	0	6.	0 2½
1914												
June 11	Fn.	EI				45.99			37.37	0	6.	0 2½
13	Wy.	EI				45.91			37.46	0	6.	0 2
29	Fn.	WI				45.96			37.54	0	6.	0 3
30	Hd.	WI				45.96			37.64	0	6.	0 3
Mean		1913.92		17	11	45.949	+62	58	37.56			
Corr						−0.081			−0.33			

π Herculis

				h	m	s	°	′	″			
				17	11	54.685	+36	54	36.30			
1911												
July 10	Fn.	WII				+0.016			−0.13	I	3.	6 1½
12	R.	WII				−0.010			−0.38	I	3.	9 --
17	Fn.	EII				+0.071			−0.15	I	---	2
19	R.	EII				+0.021			−0.28	I	2.	4 1½
1915												
May 9	Wy.	EI				+0.068			----	I	2.	9 3
June 25	Wy.	EI				+0.088			+0.09	I	3.	9 3½
28	Wy.	EI				+0.046			+0.69	I	3.	4 2
29	Hd.	EI				+0.057			+0.72	I	3.	4 2
July 2	Hd.	WI				+0.026			+0.51	I	3.	4 2
1915						s	″		″			
July 5	Hd.	WI				−0.003			+0.53	I	3.	4 3
27	Hd.	EI				+0.044			----	I	---	2
1916												
Aug. 14	Wy.	EI				−0.001			----	I	3.	4 2½
18	Wy.	EI				+0.025			----	I	3.	4 2
1917												
Aug. 3	Fn.	WII				+0.026			----	I	3.	4 2
Oct. 20	*Hd.*	*EII*				*+0.091*	-----		----	*0*	---	*3½*
Mean		1914.67				+0.034			+0.18			
		1913.73										
Corr						−0.081			−0.26			

Weisse$_1$ XVII 143

				h	m	s	°	′	″			
1913												
Apr. 19	R.	WII		17	11	57.664	+1	18	36.70	0	6.	0 2
20	R.	WII				57.709			36.79	0	6.	0 2½
29	Fn.	EII				57.706			36.96	0	5.	7 3½
30	R.	EII				57.726			36.89	0	6.	0 3½
1914												
May 20	Hd.	WI				57.775			36.95	0	6.	5 3
21	Fn.	WI				57.713			36.55	0	6.	0 3
22	Wy.	EI				57.734			36.36	0	6.	0 2½
25	Fn.	EI				57.678			37.04	0	6.	0 3
Mean		1913.85		17	11	57.713	+1	18	36.78			
Corr						−0.081			−0.18			

Weisse$_2$ XVII 329

				h	m	s	°	′	″			
1913												
Apr. 6	R.	WII		17	13	55.001	+39	33	42.12	0	7.	0 2
17	R.	WII				54.997			41.83	0	7.	5 2
22	Fn.	EII				54.985			42.14	0	8.	0 2½
25	Fn.	EII				55.054			42.69	0	7.	3 2
1914												
Mar. 26	Hd.	EI				55.012			42.47	0	7.	5 2½
Apr. 3	Fn.	WI				55.025			41.72	0	7.	0 2
May 16	Fn.	WI				54.974			42.86	0	7.	0 2
June 2	Fn.	EI				54.999			44.05	0	7.	0 2
Mean		1913.81		17	13	55.006	+39	33	42.48			
Corr						−0.081			−0.27			

u Herculis

				h	m	s	°	′	″			
1916												
Aug. 14	Wy.	EI		17	14	0.015	+33	11	-----	I	3.	9 2½
1917												
Oct. 20	*Hd.*	*EII*				*0.062*	-----		-----	*0*	---	*3½*
Mean		1916.62		17	14	0.015	+33	11	-----			
Corr						−0.081			-----			

Bradley 2191

				h	m	s	°	′	″			
1911												
May 27	T.	EII		17	14	23.096	+10	57	40.72	0	---	--
29	Fn.	WII				23.088			41.19	0	5.	3 --
June 1	Fn.	WII				23.076			41.81	0	5.	8 --
11	R.	EII				22.997			39.84	0	---	--
1915												
May 9	Wy.	EI				23.089			41.18	I	4.	9 3
19	Fn.	EI				23.129			40.64	0	5.	5 2½
31	Wy.	WI				23.114			41.77	I	4.	4 3
June 12	An.	WI				23.100			40.79	0	6.	0 2½
Mean		1913.41		17	14	23.086	+10	57	40.99			
Corr						−0.081			−0.21			

e Herculis

				h	m	s	°	′	″			
1915												
June 8	Hd.	EI		17	14	34.042	+37	23	-----	I	4.	9 2½
July 9	Fn.	WI				33.958			-----	0	5.	0 2½
12	Hd.	WI				33.997			-----	0	---	2
16	Fn.	WI				33.987			-----	0	5.	0 2

			h	m	s	°	′	″			
1915											
July 23	Hd.	EI			33.994			-----	I	4.4	2
27	Hd.	EI			33.974			-----	0	---	2
1916											
July 31	Hd.	WI			33.979			-----	0	---	2
Aug. 14	Wy.	EI			33.914			-----	I	3.9	2½
18	Wy.	EI			33.982			-----	I	4.9	2
1917											
June 25	Wy.	WII			34.023			-----	0	5.0	2
July 12	Fn.	EII			33.935			-----	0	---	2½
Aug. 3	Fn.	WII			33.982			-----	0	5.0	2
1918											
July 22	Wy.	EII			34.016			-----	0	5.0	2½
Mean------	1916.47		17	14	33.983	+37	23	-----			
Corr----------					−0.081			-----			

Piazzi XVII 43 *mean*

			h	m	s	°	′	″			
1911											
June 8	Fn.	WII	17	14	38.993	−17	39	47.11	0	6.5	--
15	Fn.	EII			39.032			46.67	0	6.8	--
20	Hd.	EII			38.987			46.83	0	---	--
1915											
June 9	An.	EI			38.988			46.84	0	7.5	3½
10	Fn.	EI			38.996			46.74	0	6.5	3
Mean------	1913.05		17	14	38.999	−17	39	46.84			
Corr----------					−0.081			−0.09			

Piazzi XVII 43 *seq.*

			h	m	s	°	′	″			
1911											
June 9	Hd.	WII	17	14	38.969	−17	39	46.67	0	6.5	--
1915											
June 17	Fn.	WI			38.997			46.99	0	7.0	3
18	Hd.	WI			39.009			47.13	0	7.5	2
Mean------	1914.12		17	14	38.992	−17	39	46.93			
Corr----------					−0.081			−0.09			

B. D.+38° 2910

			h	m	s	°	′	″			
1916											
July 6	Wy.	EI	17	15	-----	+38	54	11.31	0	6.5	2
7	Fn.	EI			-----			11.84	0	6.0	2
27	Fn.	WI			-----			12.79	0	6.5	2½
Aug. 1	Fn.	WI			-----			12.79	0	6.5	2
Mean------	1916.55		17	15	-----	+38	54	12.18			
Corr----------					-----			−0.27			

θ Ophiuchi

			h	m	s	°	′	″			
			17	16	28.847	−24	54	37.65			
1912											
July 25	Fn.	WII			+0.108			−0.06	0	5.1	3
27	Fn.	WII			+0.090			−0.10	I	3.8	3½
Aug. 5	Fn.	EII			+0.090			−0.04	I	4.4	3
7	Fn.	EII			+0.059			−0.15	0	---	3
1914											
May 18	Fn.	WI			+0.015			−0.58	I	3.9	3
19	Wy.	WI			+0.052			−0.64	0	---	3½
26	Wy.	EI			+0.052			+1.08	I	4.4	3
June 5	Fn.	EI			+0.068			+0.90	I	3.9	3
Mean------	1913.49				+0.067			+0.05			
Corr----------					−0.081			−0.03			

w Herculis

			h	m	s	°	′	″			
			17	17	17.522	+32	34	54.62			
1911											
May 20	T.	WII			+0.016			+0.68	0	---	--
22	Fn.	WII			+0.014			+0.70	0	5.7	--
24	T.	EII			+0.074			----	0	---	--
June 18	R.	EII			−0.049			−0.18	0	---	--
1915											
June 4	An.	WI			+0.027			----	0	---	2
8	Hd.	EI			+0.037			----	0	6.0	3
12	An.	WI			+0.071			+0.57	0	6.0	2
1915					s			″			
June 17	Fn.	WI			+0.016			−0.11	0	5.5	2
20	An.	EI			+0.048			+0.69	0	6.0	2½
25	Wy.	EI			+0.043			+0.10	0	6.5	3
July 6	Fn.	WI			+0.065			----	0	5.5	2
12	Hd.	WI			+0.042			----	0	---	2
16	Fn.	WI			+0.041			----	0	6.0	2
23	Hd.	EI			+0.025			----	I	4.9	3
27	Hd.	EI			+0.009			----	0	---	2
1916											
July 31	Hd.	WI			+0.015			----	0	---	2
Aug. 14	Wy.	EI			−0.013			----	I	4.9	2½
17	Fn.	EI			+0.009			----	0	5.5	2
18	Wy.	EI			+0.038			----	I	5.4	2
Sept. 1	Fn.	WI			+0.039			----	0	---	2½
1917											
June 25	Wy.	WII			+0.057			----	0	5.5	2
July 12	Fn.	EII			−0.008			----	0	---	2½
30	Wy.	EII			+0.006			----	0	5.5	2½
Aug. 3	Fn.	WII			+0.004			----	0	5.5	2
13	Fn.	WII			−0.014			----	0	---	2
17	Wy.	WII			+0.014			----	0	5.5	2½
20	Fn.	WII			+0.001			----	0	6.0	2
1918											
July 22	Wy.	EII			+0.038			----	0	5.5	2½
Aug. 5	Wy.	WII			+0.020			----	0	5.5	2½
16	Hd.	WII			+0.029			----	0	5.5	2
Mean------	1915.93				+0.024			+0.35			
	1913.73										
Corr----------					−0.081			−0.26			

Groombridge 2437

			h	m	s	°	′	″			
1911											
July 10	Fn.	WII	17	17	36.74	+71	53	10.27	0	6.8	1½
12	R.	WII			36.83			10.74	0	---	--
17	Fn.	EII			36.79			10.58	0	6.7	2½
18	Hd.	EII			36.72			10.40	0	7.5	--
1915											
June 28	Wy.	EI			36.85			10.62	0	7.0	2
29	Hd.	EI			36.79			11.26	0	7.5	2
July 2	Hd.	WI			36.71			10.54	0	7.5	2
5	Hd.	WI			36.82			10.19	0	7.5	3
Mean------	1913.52		17	17	36.781	+71	53	10.58			
Corr----------					−0.081			−0.34			

Groombridge 2437 s. p.

			h	m	s	°	′	″			
1912											
Feb. 4	Fn.	WII	17	17	36.84	+71	53	11.95	0	7.3	4
5	Fn.	WII			36.70			10.03	0	7.5	4
6	Hd.	EII			36.66			10.38	0	---	4
8	Fn.	EII			36.83			9.26	0	7.4	4
1915											
Nov. 29	Wy.	EI			36.64			9.91	0	7.5	3½
30	Hd.	EI			36.90			9.67	0	7.5	3½
Dec. 10	Hd.	WI			36.77			9.63	0	7.0	3
14	Wy.	WI			36.46			10.22	0	---	5
22	Fn.	WI			36.72			9.46	0	7.5	3½
Mean------	1914.23		17	17	36.724	+71	53	10.06			
Corr----------					−0.081			+0.57			

Piazzi XVII 76

			h	m	s	°	′	″			
1913											
Apr. 6	R.	WII	17	19	19.080	−21	21	30.12	0	6.5	2½
17	R.	WII			19.098			30.36	0	7.0	2½
May 3	R.	EII			19.038			29.17	0	6.0	2½
5	Hd.	EII			18.994			30.37	0	6.5	3
1914											
Mar. 20	Fn.	EI			19.058			30.17	0	6.0	3
24	Fn.	EI			18.991			30.11	0	7.0	3½
Apr. 3	Fn.	WI			19.029			29.30	0	6.0	3
May 15	Wy.	WI			19.063			29.46	0	---	3½
Mean------	1913.79		17	19	19.044	−21	21	29.88			
Corr----------					−0.081			−0.07			

b Ophiuchi

			h m s	° ′ ″			
			17 20 52.318	−24 5 36.54			
1913							
Apr. 19	R.	WII	+0.044	+0.75	I	4.9	2½
20	R.	WII	+0.082	+0.92	0	5.5	3
22	Fn.	EII	+0.107	−0.26	0	---	3½
May 8	Hd.	EII	+0.092	+0.55	I	4.9	3
1914							
May 21	Fn.	WI	+0.077	−0.23	0	5.5	4
22	Wy.	EI	+0.095	−0.54	0	5.5	3
26	Wy.	EI	+0.082	+1.08	0	5.5	3
June 23	Hd.	WI	+0.043	+0.43	0	---	3
Mean	1913.86		+0.078	+0.34			
Corr			−0.081	−0.04			

Weisse$_1$ XVII 319

			h m s	° ′ ″			
1913							
May 28	R.	WII	17 21 17.564	−1 34 25.96	0	7.0	2½
June 4	R.	WII	17.565	25.30	0	7.0	3
12	Hd.	EII	17.576	25.83	0	6.5	2
13	Fn.	EII	17.621	26.54	0	6.7	2
1914							
June 16	Hd.	EI	17.568	25.25	0	6.5	3
17	Wy.	EI	17.587	25.58	0	6.5	3
30	Hd.	WI	17.562	26.02	0	6.5	2
July 2	Fn.	WI	17.555	26.36	0	---	2
Mean	1913.96		17 21 17.575	−1 34 25.86			
Corr			−0.081	−0.17			

d Ophiuchi

			h m s	° ′ ″			
1911							
June 8	Fn.	WII	17 21 36.405	−29 47 11.11	0	5.6	--
9	Hd.	WII	36.390	10.98	0	5.5	--
15	Fn.	EII	36.410	11.42	0	5.6	--
20	Hd.	EII	36.392	10.49	0	---	--
1915							
May 9	Wy.	EI	36.462	10.05	0	6.0	3½
19	Fn.	EI	36.434	11.29	0	5.0	3
31	Wy.	WI	36.455	10.41	I	4.9	3½
June 4	An.	WI	36.372	12.13	0	5.5	3
Mean	1913.42		17 21 36.415	−29 47 10.98			
Corr			−0.081	+0.03			

Weisse$_2$ XVII 537

			h m s	° ′ ″			
1911							
May 27	T.	EII	17 21 39.360	+16 27 44.18	0	---	--
29	Fn.	WII	39.310	43.57	0	6.3	--
June 1	Fn.	WII	39.373	44.43	0	7.0	--
18	R.	EII	39.277	44.51	0	---	--
1915							
June 24	Fn.	EI	39.384	44.81	0	6.5	3
28	Wy.	EI	39.375	44.49	0	7.0	2
July 2	Hd.	WI	39.377	44.08	0	7.5	2
5	Hd.	WI	39.374	43.44	0	6.5	3
Mean	1913.46		17 21 39.354	+16 27 44.19			
Corr			−0.081	−0.22			

Piazzi XVII 90

			h m s	° ′ ″			
1913							
June 5	Hd.	WII	17 21 53.213	−29 38 49.58	0	6.5	3
9	Hd.	WII	53.167	49.55	0	6.5	3½
18	R.	EII	53.219	49.72	0	6.5	2½
26	Hd.	EII	53.215	49.99	0	---	3
1914							
July 3	Hd.	WI	53.215	49.67	0	7.5	2
8	Fn.	WI	53.221	49.93	0	7.5	3
18	Hd.	EI	53.198	49.97	0	7.5	3
19	Hd.	EI	53.233	49.48	0	6.5	3½
Mean	1913.99		17 21 53.210	−29 38 49.74			
Corr			−0.081	+0.02			

Lalande 31741

			h m s	° ′ ″			
1911							
June 30	Hd.	WII	17 21 58.332	+7 40 26.23	0	6.5	--
July 1	R.	WII	58.337	26.07	0	5.5	--
3	Fn.	EII	58.364	25.86	0	6.7	--
5	R.	EII	58.383	25.16	0	6.0	1
1915							
June 9	An.	EI	58.323	26.09	0	6.5	3
10	Fn.	EI	58.333	25.97	0	6.0	2½
12	An.	WI	58.321	26.17	0	7.0	2½
17	Fn.	WI	58.309	25.67	0	6.0	2½
Mean	1913.48		17 21 58.338	+7 40 25.90			
Corr			−0.081	−0.20			

σ Ophiuchi

			h m s	° ′ ″			
			17 22 2.925	+4 13 4.89			
1911							
May 20	T.	WII	+0.016	−0.42	0	---	--
24	T.	EII	−0.009	−0.05	0	---	--
25	Fn.	EII	+0.013	+0.37	I	---	--
June 29	Fn.	WII	+0.002	−0.05	I	4.2	--
1915							
June 18	Hd.	WI	−0.002	−0.42	I	4.9	2
20	An.	EI	+0.032	−0.20	I	4.4	3
22	Wy.	EI	+0.011	−0.09	I	3.9	3
July 6	Fn.	WI	−0.025	−0.19	I	4.4	2½
Mean	1913.45		+0.005	−0.13			
Corr			−0.081	−0.19			

Lalande 31839

			h m s	° ′ ″			
1913							
June 10	R.	WII	17 22 13.421	+50 30 22.46	0	7.5	2
17	Fn.	EII	13.507	23.14	0	7.5	3
30	Hd.	EII	13.424	22.89	0	7.0	2
July 7	Hd.	WII	13.435	23.25	0	7.5	2
1914							
May 19	Wy.	WI	13.565	23.74	0	---	3
20	Hd.	WI	13.435	23.53	0	7.5	2½
June 2	Fn.	EI	13.486	23.36	0	7.0	2
5	Fn.	EI	13.474	23.33	0	7.0	2
Mean	1913.94		17 22 13.468	+50 30 23.21			
Corr			−0.081	−0.29			

Weisse$_2$ XVII 589

			h m s	° ′ ″			
1912							
July 25	Fn.	WII	17 22 24.538	+26 57 21.98	0	---	2
27	Fn.	WII	24.493	21.50	0	6.6	2
Aug. 5	Fn.	EII	24.476	21.94	0	6.6	2
7	Fn.	EII	24.523	22.41	0	---	3
1914							
May 16	Fn.	WI	24.504	22.09	0	6.5	2
18	Fn.	WI	24.517	21.75	0	6.5	2
June 6	Wy.	EI	24.521	22.39	0	6.5	2
11	Fn.	EI	24.512	22.08	0	7.0	--
Mean	1913.49		17 22 24.510	+26 57 22.02			
Corr			−0.081	−0.24			

x Herculis

			h m s	° ′ ″			
1911							
July 14	Hd.	WII	17 24 21.086	+48 20 6.77	0	6.5	--
15	R.	WII	21.121	7.20	0	5.5	1
19	R.	EII	21.092	6.32	0	5.5	1
20	Fn.	EII	21.079	7.32	0	6.3	--
1915							
June 29	Hd.	EI	21.133	7.09	0	---	2
July 8	Hd.	WI	21.069	7.21	0	6.0	2
9	Fn.	WI	21.053	6.89	0	6.5	2½
21	An.	EI	21.116	7.08	0	---	3
22	Fn.	EI	21.164	6.92	0	6.0	2½
Mean	1913.76		17 24 21.101	+48 20 6.98			
Corr			−0.081	−0.29			

B. D+58° 1731

				h	m	s	°	′	″			
1913												
June	19	Hd.	EII	17	24	43.795	+58	43	36.69	0	---	2
	24	Fn.	EII			43.822			36.45	0	6.7	2
July	8	Fn.	WII			43.775			37.74	0	6.5	2
	10	Fn.	WII			43.790			37.36	0	5.8	1½
1914												
June	13	Wy.	EI			43.812			36.76	0	---	2½
	16	Hd.	EI			43.797			36.85	0	6.5	3
	23	Hd.	WI			43.803			37.76	0	---	3
	27	Wy.	WI			43.800			37.10	0	---	3
	29	Fn.	WI			43.740			37.13	0	6.5	4
	30	Hd.	WI			43.835			37.26	0	6.5	2
Mean		1914.09		17	24	43.797	+58	43	37.11			
Corr						−0.081			−0.32			

51 Ophiuchi

				h	m	s	°	′	″			
1913												
Apr.	6	R.	WII	17	25	55.468	−23	53	-----	0	---	--
	17	R.	WII			55.537			38.46	0	5.5	2
	19	R.	WII			55.418			36.23	0	6.0	2
May	3	R.	EII			55.450			37.82	0	6.0	4
	5	Hd.	EII			55.467			37.72	0	6.0	3½
1914												
Mar.	26	Hd.	EI			55.435			38.37	0	5.5	3½
Apr.	3	Fn.	WI			55.430			38.29	0	5.0	3
May	15	Wy.	WI			55.501			37.93	0	---	3½
	22	Wy.	EI			55.470			38.22	0	5.5	3½
	26	Wy.	EI			55.505			37.16	0	---	3
Mean		1913.82		17	25	55.468	−23	53	37.80			
		1913.88										
Corr						−0.081			−0.04			

Groombridge 2456

				h	m	s	°	′	″			
1913												
June	4	R.	WII	17	26	25.44	+80	13	1.26	0	6.0	2½
	5	Hd.	WII			25.42			1.35	0	6.5	2
	12	Hd.	EII			25.53			0.79	0	6.0	2
	13	Fn.	EII			25.36			1.24	0	6.4	3½
1914												
May	21	Fn.	WI			25.75			1.29	0	6.0	3½
June	2	Fn.	EI			25.83			0.76	0	5.5	2½
	6	Wy.	EI			25.49			1.13	0	6.0	2
Mean		1913.86		17	26	25.546	+80	13	1.12			
Corr						−0.081			−0.37			

Groombridge 2456 s. p.

				h	m	s	°	′	″			
1913												
Jan.	25	Hd.	EII	17	26	25.20	+80	12	60.75	0	6.5	3½
	26	Hd.	EII			25.20			60.77	0	6.0	3½
	30	Hd.	WII			25.47			61.09	0	---	3½
Feb.	1	Hd.	WII			25.19			60.71	0	6.0	3½
	4	Hd.	WII			25.54			60.58	0	6.0	3½
1914												
Feb.	21	Hd.	WI			25.50			60.25	0	6.5	2½
Mar.	3	Wy.	WI			25.25			59.95	0	6.2	3
	7	Hd.	EI			25.38			59.37	0	6.5	3½
	8	Hd.	EI			25.43			60.37	0	6.5	3
Mean		1913.56		17	26	25.351	+80	13	0.43			
Corr						−0.081			+0.48			

λ Herculis

				h	m	s	°	′	″				
				17	27	6.060	+26	10	40.67				
1911													
May	27	T.	EII			−0.015			−0.17	I	4.4	--	
	29	Fn.	WII			−0.007			−0.51	I	4.8	--	
June	1	Fn.	WII			+0.022			+0.25	0	---	--	
	11	R.	EII			−0.125			−0.02	0	---	--	
1912						s			″				
June	10	Hd.–Fn.	EII			-----			−0.82	I	---	--	R.
	10	Hd.–Fn.	EII			-----			+0.17	I	---	--	
	13	Fn.–Hd.	EII			-----			−0.35	0	---	2	R.
	13	Fn.–Hd.	EII			-----			−0.02	0	---	2	
	20	Fn.–Hd.	EII			-----			−0.65	0	---	2	R.
	20	Fn.–Hd.	EII			-----			+0.10	I	---	2	
July	2	Fn.–Hd.	EII			-----			−0 03	0	---	--	R.
	2	Fn.–Hd.	EII			-----			+0.01	I	---	--	
	3	Hd.–Fn.	WII			-----			−0.13	I	---	--	R.
	3	Hd.–Fn.	WII			-----			+0.19	I	---	--	
	5	Hd.–Fn.	WII			-----			+0.32	I	---	--	R.
	5	Hd.–Fn.	WII			-----			−0.35	I	---	--	
	6	Fn.–Hd.	WII			-----			−0.31	0	---	2	R.
	6	Fn.–Hd.	WII			-----			−0.36	0	---	2	
	8	Fn.–Hd.	WII			-----			−0.26	0	---	2	R.
	8	Fn.–Hd.	WII			-----			−0.79	I	---	2	
1915													
June	25	Wy.	EI			+0.053			−0.16	I	4.4	3	
	28	Wy.	EI			+0.032			+0.13	I	3.9	2	
July	2	Hd.	WI			+0.020			+0.06	I	4.9	2	
	5	Hd.	WI			−0.011			−0.23	I	4.4	3	
Mean		1913.46				−0.004			−0.11				
		1912.97											
Corr						−0.081			−0.24				

λ Scorpii

				h	m	s	°	′	″				
				17	27	-----	−37	2	19.87				
1912													
Mar.	1	R.	WII			-----			+0.7	0	---	--	
	10	Hd.	EII			-----			0.0	I	---	4	
	13	Hd.	EII			-----			−1.1	I	---	4	
1913													
Mar.	2	Fn.	EII			-----			−1.6	0	---	3½	
Apr.	25	Fn.	EII			-----			−0.4	0	---	4	
	30	R.	EII			-----			+0.1	0	---	--	
May	28	R.	WII			-----			−0.8	I	---	--	
July	1	Fn.	EII			-----			−1.5	0	---	3½	
1914													
Mar.	7	Wy.	EI			-----			−0.5	0	---	4	
	18	Wy.	WI			-----			−1.5	0	---	4½	
July	20	Fn.	EI			-----			+0.2	I	---	4	
Aug.	7	Hd.	EI			-----			−1.1	I	---	3½	
1916													
July	14	Fn.	EI			-----			−0.9	I	---	4	
	20	Hd.	EI			-----			−1.7	0	---	3½	
Aug.	4	Fn.	WI			-----			−2.0	I	---	3½	
	17	Fn.	EI			-----			−1.4	I	---	3½	
	18	Wy.	EI			-----			−1.4	I	---	3½	
	22	Fn.	EI			-----			−1.1	I	---	--	
	25	Fn.	WI			-----			−1.2	I	---	4	
Sept.	1	Fn.	WI			-----			−0.2	I	---	4	
1917													
July	30	Wy.	EII			-----			−2.2	I	---	4	
	31	Fn.	EII			-----			−0.5	I	---	3½	
Aug.	3	Fn.	WII			-----			+1.2	0	---	3½	
	17	Wy.	WII			-----			−1.0	0	---	4	
	20	Fn.	WII			-----			−0.6	0	---	3½	
1918													
Aug.	15	Fn.	WII			------			−0.8	I	---	4	
Mean		1915.40				-----			−0.82				
Corr						-----			+0.19				

β Draconis

				h	m	s	°	′	″				
				17	28	23.907	+52	22	3.67				
1911													
June	29	Fn.	WII			−0.096			+0.36	I	2.7	--	
	30	Hd.	WII			+0.035			+0.63	I	3.4	--	
July	3	Fn.	EII			+0.027			+0.09	I	2.6	--	
	5	R.	EII			+0.074			+0.58	I	3.4	--	

				s	"			
1915								
June	18	Hd.	WI	+0.008	+0.43	I	---	2
	20	An.	EI	+0.041	+1.10	II	3.6	2½
	22	Wy.	EI	+0.044	+0.17	I	2.9	2½
July	6	Fn.	WI	−0.009	+0.58	I	2.9	2
Mean		1913.49		+0.016	+0.49			
Corr				−0.081	−0.29			

Pulkowa 1855, 2481

				h	m	s	°	′	″			
1911												
June	8	Fn.	WII	17	28	41.521	−5	40	46.02	0	6.5	---
	9	Hd.	WII			41.519			46.11	0	6.0	---
	15	Fn.	EII			41.553			46.28	0	6.4	---
	20	Hd.	EII			41.549			46.36	0	6.0	---
1915												
June	8	Hd.	EI			41.546			-----	0	6.5	3
	9	An.	EI			41.521			46.32	0	7.0	3
	10	Fn.	EI			41.563			46.11	0	6.0	3
	12	An.	WI			41.526			45.99	0	6.0	3
	17	Fn.	WI			41.488			46.87	0	5.5	2½
Mean		1913.67		17	28	41.532	−5	40	46.26			
		1913.45										
Corr						−0.081			−0.16			

Greenwich 1840, 1501

				h	m	s	°	′	″			
1913												
Apr.	20	R.	WII	17	29	46.077	−11	10	53.17	0	6.0	2
May	8	Hd.	EII			46.051			53.75	0	6.0	2
	20	Fn.	WII			45.993			54.23	0	7.0	3
	24	R.	WII			46.091			53.87	0	6.0	3
June	17	Fn.	EII			46.035			54.19	0	6.0	3½
1914												
May	19	Wy.	WI			46.031			53.60	0	6.5	3½
	20	Hd.	WI			46.000			54.08	0	6.5	3½
June	6	Wy.	EI			46.081			54.45	0	6.0	2½
	16	Hd.	EI			46.042			53.82	0	6.0	3
	17	Wy.	EI			46.045			53.37	0	6.0	3
Mean		1913.90		17	29	46.045	−11	10	53.85			
Corr						−0.081			−0.14			

ν^1 Draconis

				h	m	s	°	′	″			
1913												
June	6	Fn.	WII	17	30	24.243	+55	14	44.21	0	5.0	2
	9	Hd.	WII			24.211			44.17	I	4.9	3
	18	R.	EII			24.270			44.34	0	---	---
	21	R.	EII			24.229			44.26	0	5.0	3½
1914												
May	16	Fn.	WI			24.264			45.22	0	5.0	2
	18	Fn.	WI			24.299			44.16	0	5.0	2
	25	Fn.	EI			24.246			44.05	0	5.0	2½
June	5	Fn.	EI			24.250			43.76	0	5.0	2
Mean		1913.92		17	30	24.252	+55	14	44.27			
Corr						−0.081			−0.30			

ν^2 Draconis

				h	m	s	°	′	″			
1911												
June	21	T.	EII	17	30	29.548	+55	14	2.49	0	---	---
	22	Fn.	EII			29.605			2.48	0	4.8	---
	27	Hd.	WII			29.611			2.35	0	5.5	---
	28	T.	WII			29.624			2.56	I	4.4	---
1915												
June	29	Hd.	EI			29.709			3.24	0	---	2
July	9	Fn.	WI			29.659			2.37	0	5.0	2½
	11	Fn.	WI			29.649			2.01	0	5.0	2
	21	An.	EI			29.661			2.08	0	---	3
	22	Fn.	EI			29.751			2.98	0	5.0	2
Mean		1913.73		17	30	29.646	+55	14	2.51			
Corr						−0.081			−0.30			

α Ophiuchi

				h	m	s	°	′	″			
				17	30	45.408	+12	37	28.41			
1911						s			″			
June	18	R.	EII			+0.093			----	II	---	---
	23	Hd.	EII			+0.006			----	0	---	---
July	17	Fn.	EII			+0.053			+0.31	I	2.7	---
	18	Hd.	EII			+0.027			+0.23	I	---	---
	19	R.	EII			+0.029			----	II	1.1	---
	20	Fn.	EII			+0.037			----	I	---	---
	22	R.	EII			+0.054			+0.20	II	2.1	2½
	24	Fn.	EII			+0.047			−1.23	I	2.4	---
	25	Hd.	EII			+0.066			−0.33	II	1.1	2½
	27	Fn.	WII			+0.063			+0.82	II	2.8	2½
	28	Hd.	WII			+0.017			+0.43	II	2.1	2
	29	R.	WII			+0.054			−0.36	I	---	2
	31	Fn.	WII			+0.067			+0.06	II	2.5	2
Aug.	6	R.	WII			+0.015			−0.04	II	---	1
	8	R.	EII			+0.056			−0.06	II	---	1
	9	Fn.	EII			+0.065			+0.28	II	2.3	---
	10	R.	EII			+0.011			−0.16	II	1.1	1
1912												
Jan.	*8*	*Fn.*	*EII*			*+0.042*	*−0.25*		*−0.14*	*0*	---	---
	9	*Fn.*	*EII*			*+0.026*	*+1.62*		*+1.73*	*0*	---	---
Feb.	*8*	*Hd.*	*EII*			*+0.060*	*+0.46*		*+0.45*	*0*	---	*3*
	9	*R.*	*EII*			*+0.066*	----		----	*0*	---	---
	12	*Hd.*	*EII*			*+0.037*	----		----	*0*	---	*2½*
	16	*R.*	*EII*			*+0.028*	*−0.30*		*−0.34*	*0*	---	---
	18	*Fn.*	*WII*			-----	*+0.14*		*+0.10*	*0*	---	*1½*
July	25	Fn.	WII			+0.087			----	0	---	2
	27	Fn.	WII			+0.025			+0.45	I	1.8	2
Aug.	5	Fn.	EII			+0.048			−0.08	II	1.6	2
	7	Fn.	EII			+0.011			−0.15	I	---	2
	12	Fn.	EII			+0.026			+0.68	I	1.9	2
	23	Fn.	WII			+0.012			+0.57	I	---	3
	28	Fn.	WII			+0.045			+0.40	0	---	2
Dec.	*22*	*Fn.*	*WII*			*+0.045*	*+0.29*		*+0.40*	*0*	---	*3½*
	27	*Hd.*	*WII*			*+0.056*	*+0.31*		*+0.34*	*0*	---	*3½*
	30	*Hd.*	*WII*			-----	*+0.62*		*+0.72*	*0*	---	*3*
1913												
Jan.	*1*	*R.*	*WII*			-----	*−0.38*		*−0.29*	*0*	---	*4*
	3	*Hd.*	*WII*			*+0.039*	*−0.41*		*−0.35*	*0*	---	*3*
	12	*Fn.*	*WII*			-----	*−0.13*		*−0.03*	*0*	---	*3*
	13	*R.*	*WII*			*+0.013*	*−0.26*		*−0.19*	*0*	---	*2½*
	21	*Fn.*	*EII*			*+0.032*	*−0.47*		*−0.45*	*0*	---	---
	27	*R.*	*EII*			*0.000*	*−0.23*		*−0.21*	*0*	---	*2½*
Feb.	*3*	*Hd.*	*WII*			*+0.045*	*+0.08*		*+0.05*	*0*	---	*2*
	4	*Fn.*	*WII*			*+0.019*	*+0.49*		*+0.51*	*0*	---	*3*
	5	*R.*	*WII*			*+0.044*	*−0.53*		*−0.47*	*0*	---	*3½*
	6	*Fn.*	*WII*			*+0.056*	*+0.12*		*+0.12*	*0*	---	*3*
	9	*Fn.*	*WII*			*+0.022*	*−0.05*		*−0.07*	*0*	---	*2*
	11	*Fn.*	*WII*			*−0.008*	*−0.90*		*−0.89*	*0*	---	*2½*
	12	*R.*	*WII*			*+0.026*	*+0.54*		*+0.56*	*0*	---	*2½*
May	31	R.	WII			−0.010			----	II	2.6	3
June	24	Fn.	EII			+0.005			+0.15	I	2.9	2
	26	Hd.	EII			+0.053			----	II	---	2
July	4	Hd.	EII			+0.014			−0.02	II	---	2
	5	Fn.	EII			+0.052			+0.90	I	2.2	2½
	8	Fn.	WII			+0.038			+0.64	I	1.9	2
	10	Fn.	WII			+0.054			+0.25	II	2.1	2
	11	Hd.	WII			+0.030			+0.58	II	2.6	2
	14	Fn.	WII			+0.024			+0.65	I	2.5	2
Dec.	*18*	*R.*	*WI*			*+0.007*	----		----	*0*	---	---
	28	*Fn.*	*WI*			*+0.007*	*−0.64*		*−0.56*	*0*	---	*3½*
1914												
Jan.	*5*	*Fn.*	*EI*			-----	*−0.09*		*−0.02*	*0*	---	*3½*
	20	*Hd.*	*WI*			*+0.025*	*−0.13*		*−0.12*	*0*	---	*3*
	21	*Hd.*	*WI*			*+0.073*	*−0.59*		*−0.57*	*0*	---	*3*
	28	*R.*	*WI*			*+0.020*	*+0.02*		*+0.06*	*0*	---	---
Feb.	*1*	*Fn.*	*WI*			*+0.038*	*+0.36*		*+0.37*	*0*	---	*3*
	3	*Hd.*	*EI*			*+0.053*	*−0.22*		*−0.28*	*0*	---	---
	8	*Fn.*	*EI*			*+0.018*	*+0.87*		*+0.88*	*0*	---	*3*
	21	*Wy.*	*WI*			*+0.009*	*+0.44*		*+0.45*	*0*	---	*3*
Mar.	23	Hd.	EI			+0.054			+0.49	II	2.1	2
	24	Fn.	EI			+0.029			+0.17	I	1.9	2½
	26	Hd.	EI			+0.007			+0.30	II	2.6	2
Apr.	1	Wy.	WI			+0.028			+0.17	0	---	3½

				s	"	"			
1914									
Apr.	3	Fn.	WI	+0.054		----	I	1.9	2
June	15	Fn.	EI	+0.029		+0.08	0	---	2½
	23	Hd.	WI	+0.053		----	I	---	2
	27	Wy.	WI	+0.019		+0.11	0	---	3
July	9	Hd.	WI	+0.017		----	II	2.1	2
	10	Fn.	WI	+0.055		----	I	---	2½
	11	Hd.	WI	+0.007		+0.23	II	2.6	2
	15	Hd.	WI	+0.022		+0.26	I	---	2
	16	Fn.	WI	+0.022		+0.78	I	2.4	2½
	17	Hd.	WI	−0.016		+0.97	II	---	2½
	27	Fn.	EI	+0.011		+0.70	I	2.4	1½
	28	Hd.	EI	+0.021		----	II	2.1	2
	29	Fn.	EI	+0.019		----	0	---	3
	31	Fn.	EI	+0.013		+0.53	0	---	2
Aug.	3	Fn.	EI	+0.040		+0.29	I	2.4	2
	13	Hd.	WI	+0.039		----	I	---	2
	14	Wy.	WI	+0.038		----	II	---	3
	15	Fn.	WI	+0.044		+1.08	I	---	2½
1915									
Jan.	*4*	*Wy.*	*EI*	*+0.052*	*+0.04*	*+0.09*	*0*	---	*3½*
	6	*Hd.*	*EI*	*+0.025*	*−0.71*	*−0.64*	*0*	---	*3*
	7	*Wy.*	*EI*	*+0.077*	*+0.20*	*+0.26*	*0*	---	*3*
	8	*An.*	*EI*	*+0.034*	*+0.35*	*+0.40*	*0*	---	*3*
	12	*An.*	*WI*	*+0.013*	*−0.20*	*−0.18*	*0*	---	*4*
	14	*Fn.*	*WI*	*+0.046*	*+0.44*	*+0.42*	*0*	---	*3½*
	20	*Wy.*	*EI*	*+0.034*	*−0.16*	*−0.11*	*0*	---	*3*
	21	*Fn.*	*EI*	-----	*+0.09*	*+0.18*	*0*	---	*3*
	28	*Wy.*	*EI*	*+0.058*	*−0.27*	*−0.17*	*0*	---	*3½*
June	24	Fn.	EI	+0.025		----	I	1.9	2½
July	2	Hd.	WI	+0.060		----	II	2.6	2
	8	Hd.	WI	+0.050		----	II	2.6	2
	12	Hd.	WI	+0.024		−0.09	I	---	2
	14	An.	WI	+0.020		+0.30	II	3.1	2½
	16	Fn.	WI	+0.034		−0.26	I	3.4	3
	17	An.	WI	+0.013		+0.10	II	3.6	3
	23	Hd.	EI	+0.050		+0.73	II	2.1	2
	24	An.	EI	+0.004		+0.59	II	3.1	2½
	27	Hd.	EI	+0.024		----	I	---	2
Aug.	5	Fn.	EI	+0.035		----	I	---	3½
	7	An.	EI	+0.010		+1.05	II	3.6	2½
	9	Fn.	EI	+0.026		+0.20	I	---	2½
	10	An.	EI	−0.002		+0.61	II	3.1	2½
Dec.	*20*	*Fn.*	*WI*	*+0.055*	*−0.40*	*−0.36*	*0*	---	*3½*
1916									
Jan.	*2*	*Hd.*	*EI*	*+0.033*	*−0.42*	*−0.34*	*0*	---	*3*
	3	*Fn.*	*EI*	*+0.056*	*−0.26*	*−0.18*	*0*	---	*3½*
	7	*Hd.*	*EI*	*+0.093*	*+0.09*	*+0.19*	*0*	---	*3*
	13	*Wy.*	*EI*	*+0.048*	*+0.65*	*+0.74*	*0*	---	*3½*
	18	*Fn.*	*EI*	*+0.038*	*−0.02*	*0.00*	*0*	---	*3½*
	20	*Hd.*	*EI*	-----	*−0.36*	*−0.24*	*0*	---	*3*
	23	*Hd.*	*EI*	*+0.097*	*−0.42*	*−0.38*	*0*	---	*3*
Feb.	*2*	*Hd.*	*EI*	*+0.074*	*+0.13*	*+0.20*	*0*	---	*3*
	3	*Wy.*	*EI*	-----	*+0.68*	*+0.74*	*0*	---	*3*
Mar.	*16*	*Hd.*	*WI*	*+0.012*	----	----	*I*	---	*3*
July	7	Fn.	EI	+0.013		0.00	I	---	3
	14	Fn.	EI	+0.037		−0.02	I	2.4	2½
	20	Hd.	EI	+0.011		+0.28	0	---	2
	27	Fn.	WI	+0.016		+0.07	I	---	2½
	31	Hd.	WI	+0.013		----	0	---	2
Aug.	1	Fn.	WI	+0.062		+1.31	I	---	2½
	7	Wy.	EI	+0.028		+0.19	I	2.9	2
	18	Wy.	EI	+0.051		+0.51	I	2.9	2
Sept.	1	Fn.	WI	+0.040		+0.12	I	2.4	2½
	11	*Hd.*	*WI*	*+0.042*	*+0.57*	*+0.58*	*II*	---	*2*
	19	*Hd.*	*EI*	*−0.008*	*+0.31*	*+0.32*	*I*	---	*1*
	20	*Wy.*	*EI*	*+0.038*	*+0.02*	*+0.08*	*0*	---	*3*
	22	*Hd.*	*EI*	*+0.025*	*−0.01*	*+0.01*	*I*	---	*2*
	28	*Wy.*	*WI*	*+0.015*	*−0.69*	*−0.67*	*0*	---	*3*
Oct.	*10*	*Fn.*	*WI*	*+0.062*	*+0.49*	*+0.53*	*0*	---	*2½*
	17	*Fn.*	*WI*	*+0.037*	*−0.32*	*−0.24*	*0*	---	*3*
	26	*Wy.*	*EI*	*−0.015*	*+0.18*	*+0.22*	*0*	---	*3½*
	27	*Hd.*	*EI*	*+0.002*	*−0.79*	*−0.70*	*0*	---	*3*
	31	*Fn.*	*EI*	*+0.011*	*−0.04*	*+0.07*	*0*	---	*3½*
Nov.	*2*	*Hd.*	*EI*	*+0.065*	*−0.81*	*−0.71*	*0*	---	*3½*
	3	*Fn.*	*EI*	*+0.079*	*−1.42*	*−1.31*	*0*	---	*3½*
	10	*Fn.*	*EI*	*+0.027*	*+0.35*	*+0.46*	*0*	---	*3½*
Dec.	*25*	*Fn.*	*WI*	*+0.052*	*−1.18*	*−1.09*	*0*	---	*3½*
	28	*Hd.*	*WI*	*+0.056*	*−0.95*	*−0.90*	*0*	---	*3*

				s	"	"			
1917									
Jan.	*17*	*Fn.*	*EI*	*+0.013*	----	----	*0*	---	*3½*
	18	*Hd.*	*EI*	*+0.123*	*[−3.34]*	*[−3.28]*	*0*	---	*4*
Mar.	*8*	*Fn.*	*WI*	*+0.038*	----	----	*0*	---	*3*
July	12	Fn.	EII	+0.013		+0.44	0	---	3
	27	Hd.	EII	+0.019		+0.25	I	2.9	3
	30	Wy.	EII	−0.020		−0.79	I	2.9	2½
Aug.	3	Fn.	WII	+0.027		−0.15	I	2.4	2½
	6	Hd.	WII	+0.035		+0.35	II	2.6	2
	10	Wy.	WII	+0.003		+0.30	II	2.1	2½
	17	Wy.	WII	+0.045		−0.58	I	2.9	2½
	21	Wy.	WII	−0.002		−0.43	II	2.6	2½
	25	Wy.	EII	+0.045		+1.08	II	2.6	3
Sept.	*4*	*Fn.*	*EII*	*+0.048*	*−0.28*	*−0.23*	*I*	---	*2*
	11	*Fn.*	*EII*	*+0.028*	*−0.50*	*−0.48*	*0*	---	*2*
Oct.	*2*	*Fn.*	*WII*	*+0.019*	*−0.60*	*−0.50*	*0*	---	*2*
	15	*Fn.*	*EII*	*−0.001*	*−0.17*	*−0.12*	*0*	---	*3*
	26	*Fn.*	*EII*	*+0.024*	*−0.21*	*−0.16*	*0*	---	*3½*
Nov.	*1*	*Hd.*	*EII*	*+0.033*	*−0.75*	*−0.68*	*0*	---	*3*
	2	*Fn.*	*EII*	*+0.041*	*−0.07*	*+0.08*	*0*	---	*3½*
	12	*Wy.*	*WII*	*+0.078*	*−0.30*	*−0.27*	*0*	---	*4*
1918									
Jan.	*7*	*Hd.*	*EII*	*+0.079*	*−0.40*	*−0.34*	*0*	---	*3*
	16	*Fn.*	*EII*	*+0.020*	*−0.13*	*−0.12*	*0*	---	*3½*
Feb.	*3*	*Hd.*	*WII*	*+0.057*	*+0.44*	*+0.51*	*0*	---	*3*
	26	*Hd.*	*EII*	*+0.077*	*+0.49*	*+0.51*	*I*	---	*2*
	28	*Hd.*	*EII*	*+0.091*	*+0.64*	*+0.68*	*0*	---	*3½*
Mar.	*3*	*Fn.*	*EII*	*+0.097*	*+0.40*	*+0.45*	*0*	---	*2½*
July	15	Wy.	EII	−0.007		+0.10	I	2.9	3
	16	Hd.	EII	+0.034		+0.11	0	---	3
	22	Wy.	EII	+0.025		+1.17	I	---	3½
	25	Fn.	EII	+0.040		----	I	2.4	2½
Aug.	1	Fn.	WII	+0.044		−0.75	0	---	2½
	5	Wy.	WII	+0.047		−0.08	I	2.9	2½
	16	Hd.	WII	+0.034		+0.64	I	2.9	2
Mean			1914.68	+0.031		+0.26			
			1914.80						
Corr				−0.081		−0.22			

θ Scorpii

				h	m	s	°	′	″			
1914												
Apr.	5	Wy.	WI	17	30	-----	−42	56	30.3	0	---	4
Aug.	7	Hd.	EI			-----			28.2	0	---	4
Mean			1914.43	17	30	-----	−42	56	29.25			
Corr						-----			+0.54			

Weisse$_1$ XVII 554

				h	m	s	°	′	″			
1913												
Apr.	17	R.	WII	17	31	39.785	+12	6	13.62	0	7.0	2
	19	R.	WII			39.706			13.91	0	6.5	2
May	3	R.	EII			39.756			13.30	0	7.0	2½
	5	Hd.	EII			39.760			14.33	0	6.5	2
1914												
June	30	Hd.	WI			39.763			14.29	0	---	2
July	2	Fn.	WI			39.749			14.04	0	7.0	2
	21	Hd.	EI			39.705			14.51	0	7.0	2½
	22	Fn.	EI			39.779			14.54	0	7.5	2
Mean			1913.92	17	31	39.750	+12	6	14.07			
Corr						−0.081			−0.21			

Weisse$_2$ XVII 928

				h	m	s	°	′	″			
1913												
June	10	R.	WII	17	31	48.281	+40	58	1.17	0	7.0	2
	30	Hd.	EII			48.314			1.54	0	7.0	2
July	1	Hd.	EII			48.377			1.59	0	---	2
	7	Hd.	WII			48.343			1.58	0	7.0	2
1914												
July	3	Hd.	WI			48.379			1.16	0	6.5	2
	8	Fn.	WI			48.340			0.95	0	7.0	2
	18	Hd.	EI			48.326			1.48	0	7.0	2
	19	Hd.	EI			48.331			1.29	0	7.0	2
Mean			1914.01	17	31	48.336	+40	58	1.34			
Corr						−0.081			−0.27			

f Draconis

				h	m	s	°	′	″			
1911												
July	14	Hd.	WII	17	32	19.35	+68	11	33.28	0	5.0	--
	15	R.	WII			19.33			34.06	0	4.5	--
	19	R.	EII			19.25			33.21	0	5.0	1½
	20	Fn.	EII			19.43			33.19	0	5.2	--
1915												
June	25	Wy.	EI			19.34			34.07	0	6.5	3½
	28	Wy.	EI			19.46			34.03	I	4.9	2½
July	2	Hd.	WI			19.39			33.25	0	6.0	3
	5	Hd.	WI			19.30			33.73	0	6.0	3
Mean		1913.52		17	32	19.356	+68	11	33.60			
Corr						−0.081			−0.34			

f Draconis s. p.

				h	m	s	°	′	″			
1911												
Nov.	18	R.	EII	17	32	19.20	+68	11	30.42	0	---	4
	21	Fn.	EII			19.36			32.26	0	5.5	4
Dec.	5	Hd.	WII			19.36			33.51	0	---	5
	6	Hd.	WII			19.40			32.35	0	5.5	2
1915												
Oct.	27	Fn.	WI			19.25			33.44	0	6.0	3½
	29	Hd.	EI			19.37			32.91	0	6.0	4
Nov.	1	Hd.	EI			19.46			31.79	0	---	4
	16	Hd.	WI			19.33			32.35	0	---	5
Dec.	6	Hd.	WI			19.29			32.64	0	6.0	3½
Mean		1914.10		17	32	19.336	+68	11	32.41			
Corr						−0.081			+0.66			

ξ Serpentis

				h	m	s	°	′	″			
				17	32	25.897	−15	20	33.10			
1913												
May	28	R.	WII			+0.080			−0.44	I	3.4	3½
	31	R.	WII			+0.038			−1.17	I	3.9	3½
June	19	Hd.	EII			+0.088			−1.13	I	---	3
	26	Hd.	EII			+0.065			−0.46	I	---	2
1914												
May	21	Fn.	WI			+0.043			−0.01	0	---	3½
	26	Wy.	EI			+0.092			−0.43	I	3.4	3
June	2	Fn.	EI			+0.132			−0.74	I	3.9	2½
	23	Hd.	WI			+0.046			−0.45	I	---	2
Mean		1913.93				+0.073			−0.60			
Corr						−0.081			−0.11			

Piazzi XVII 156

				h	m	s	°	′	″			
1913												
June	4	R.	WII	17	32	26.308	−15	30	60.44	0	6.0	3½
	5	Hd.	WII			26.353			58.95	0	6.5	3
	12	Hd.	EII			26.351			59.60	0	6.5	3
	13	Fn.	EII			26.340			59.78	0	6.3	3
1914												
July	9	Hd.	WI			26.315			60.18	0	6.2	2
	10	Fn.	WI			26.365			----	0	7.0	3
	20	Fn.	EI			26.345			59.67	0	6.5	2½
	28	Hd.	EI			26.349			59.53	0	6.0	3
Aug.	14	Wy.	WI			26.354			60.64	0	6.5	3
Mean		1914.06		17	32	26.342	−15	30	59.85			
		1914.00										
Corr						−0.081			−0.11			

B. D. +30° 3033

				h	m	s	°	′	″			
1911												
May	27	T.	EII	17	33	11.186	+30	50	24.34	0	6.5	--
	29	Fn.	WII			11.213			23.83	0	6.5	--
June	1	Fn.	WII			11.214			24.44	0	6.5	--
	18	R.	EII			11.235			24.20	0	---	--
1915												
May	31	Wy.	WI			11.229			24.60	0	6.0	2
1915												
June	8	Hd.	EI			11.251			-----	0	6.5	2½
	9	An.	EI			11.231			24.16	0	---	3
	10	Fn.	EI			11.221			23.92	0	6.0	2½
	12	An.	WI			11.225			24.19	0	6.5	2½
	22	Wy.	EI			11.231			24.33	0	7.0	2½
Mean		1913.83		17	33	11.224	+30	50	24.22			
		1913.66										
Corr						−0.081			−0.25			

Bradley 2223

				h	m	s	°	′	″			
1911												
June	8	Fn.	WII	17	33	48.631	+24	21	46.37	0	5.8	--
	9	Hd.	WII			48.638			47.00	0	6.0	--
	15	Fn.	EII			48.627			46.40	0	6.2	--
	29	Fn.	WII			48.636			46.40	0	6.0	--
July	3	Fn.	EII			48.679			45.58	0	5.8	--
1915												
June	17	Fn.	WI			48.642			46.46	0	6.0	2
	18	Hd.	WI			48.617			46.67	0	6.5	2
	20	An.	EI			48.631			46.49	0	6.0	3
	24	Fn.	EI			48.617			46.73	0	5.5	2
Mean		1913.24		17	33	48.635	+24	21	46.46			
Corr						−0.081			−0.24			

Bradley 2227

				h	m	s	°	′	″			
1911												
July	5	R.	EII	17	34	16.402	+48	38	15.49	0	6.5	1
	6	Fn.	EII			16.416			15.44	0	5.7	2
	10	Fn.	WII			16.429			15.74	0	5.8	1½
	12	R.	WII			16.495			16.09	0	5.0	1½
1915												
July	6	Fn.	WI			16.447			16.20	0	5.5	2
	8	Hd.	WI			16.471			16.13	I	4.9	2
	22	Fn.	EI			16.540			15.90	0	5.5	2
	23	Hd.	EI			16.457			16.03	0	6.0	2
Mean		1913.53		17	34	16.457	+48	38	15.88			
Corr						−0.081			−0.29			

B. D. +3° 3465

				h	m	s	°	′	″			
1911												
May	20	T.	WII	17	34	48.881	+3	36	27.88	0	---	--
	22	Fn.	WII			48.812			28.55	0	---	--
	24	T.	EII			48.869			27.73	0	7.5	--
	25	Fn.	EII			48.874			28.67	0	---	--
1915												
July	9	Fn.	WI			48.808			26.90	0	6.5	3
	11	Fn.	WI			48.798			26.86	0	7.0	3
	24	An.	EI			48.776			28.11	0	6.0	3
	27	Hd.	EI			48.786			27.67	C	6.5	2
Mean		1913.47		17	34	48.826	+3	36	27.80			
Corr						−0.081			−0.19			

Weisse$_2$ XVII 1061

				h	m	s	°	′	″			
1913												
Apr.	20	R.	WII	17	35	11.564	+36	47	53.26	0	7.0	1½
	25	Fn.	EII			11.559			52.80	0	7.0	1½
May	8	Hd.	EII			11.546			52.30	0	7.5	2
	24	R.	WII			11.501			52.95	0	7.0	2
1914												
May	19	Wy.	WI			11.554			52.05	0	6.5	3
	20	Hd.	WI			11.556			51.87	0	6.5	3½
	22	Wy.	EI			11.510			52.97	0	6.7	2½
June	6	Wy.	EI			11.514			53.02	0	6.7	2
Mean		1913.87		17	35	11.538	+36	47	52.65			
Corr						−0.081			−0.26			

o Serpentis

				h	m	s	°	′	″				
1911				17	36	21.302	−12	49	40.28				
July	24	Fn.	EII			21.412			40.15	I	4.	4	3
	25	Hd.	EII			21.357			40.03	I	4.	3	--
	27	Fn.	WII			21.388			40.20	I	4.	9	3
	28	Hd.	WII										
1915													
June	25	Wy.	EI			21.381			40.96	0	---		3½
	29	Hd.	EI			21.352			40.45	I	---		2
July	2	Hd.	WI			21.375			40.44	I	---		3
	5	Hd.	WI			21.405			40.52	0	5.	5	3½
Mean		1913.53		17	36	21.372	−12	49	40.38				
Corr						−0.081			−0.12				

ι Herculis

				h	m	s	°	′	″				
				17	36	55.474	+46	3	13.85				
1913													
Apr.	17	R.	WII			−0.051			−0.06	I	4.	4	1½
	19	R.	WII			−0.080			−0.04	I	3.	9	1½
	30	R.	EII			−0.016			+0.29	I	3.	9	3
May	3	R.	EII			−0.044			+0.20	I	4.	4	2
1914													
May	16	Fn.	WI			−0.068			+0.02	I	3.	9	2
	18	Fn.	WI			−0.038			−0.08	I	3.	9	2
	25	Fn.	EI			−0.036			+0.12	I	4.	4	2½
	26	Wy.	EI			−0.020			−0.22	I	3.	9	2½
1915													
July	6	Fn.	WI			−0.042			----	I	3.	9	2
	12	Hd.	WI			−0.038			----	I	---		2
	16	Fn.	WI			−0.031			----	0	5.	0	3
Aug.	7	An.	EI			−0.016			----	I	4.	9	2
1916													
July	31	Hd.	WI			+0.014			----	0	---		3
Aug.	6	Hd.	EI			−0.056			----	I	---		2
	14	Wy.	EI			−0.077			----	I	3.	4	2½
	18	Wy.	EI			−0.005			----	I	3.	9	2
Sept.	1	Fn.	WI			−0.032			----	0	4.	5	2½
1917													
July	30	Wy.	EII			−0.008			----	I	4.	9	2½
Aug.	17	Wy.	WII			−0.002			----	I	4.	4	2
	20	Fn.	WII			−0.087			----	0	---		2
1918													
Feb.	*10*	*Wy.*	*WII*			*−0.090*	----		----	*0*	---		*3*
July	22	Wy.	EII			−0.080			----	0	---		3
Aug.	5	Wy.	WII			−0.028			----	I	3.	9	2
Mean		1915.73				−0.038			+0.03				
		1913.85											
Corr						−0.081			−0.28				

ω Draconis

				h	m	s	°	′	″				
				17	37	28.625	+68	47	59.67				
1911													
June	21	T.	EII			−0.04			−0.14	0	6.	0	--
	22	Fn.	EII			0.00			+0.06	0	---		--
	27	Hd.	WII			+0.01			+0.19	0	---		--
	28	T.	WII			−0.11			+0.65	I	4.	4	--
1915													
May	9	Wy.	EI			−0.05			+0.52	I	4.	4	3
	19	Fn.	EI			−0.01			+0.56	0	5.	0	2
	31	Wy.	WI			0.00			+0.03	0	---		2½
June	4	An.	WI			−0.03			+0.15	I	4.	9	3
Mean		1913.44				−0.029			+0.25				
Corr						−0.081			−0.34				

ω Draconis s. p.

				h	m	s	°	′	″				
				17	37	28.625	+68	47	59.67				
1912													
Dec.	14	R.	EII			−0.14			−0.42	0	6.	0	2
	16	Fn.	EII			−0.07			−0.38	0	---		4
	30	Fn.	WII			−0.14			−0.99	0	---		4
1913						s			″				
Jan.	8	Fn.	WII			−0.13			+1.68	0	---		4½
Nov.	22	R.	WI			−0.11			+0.42	0	---		5
Dec.	8	Hd.	EI			−0.09			−1.93	0	6.	0	4
	9	Fn.	EI			+0.02			−1.33	0	5.	5	3½
	18	Hd.	WI			−0.02			−1.20	0	6.	0	4
Mean		1913.46				−0.085			−0.52				
Corr						−0.081			+0.64				

β Ophiuchi

				h	m	s	°	′	″				
				17	39	1.560	+4	36	16.27				
1911						s			″				
July	17	Fn.	EII			+0.029			+0.40	I	3.	3	--
	18	Hd.	EII			+0.013			+0.71	I	---		--
	19	R.	EII			+0.040			−0.18	II	2.	1	2
	20	Fn.	EII			+0.005			----	I	3.	2	3
	22	R.	EII			+0.027			----	I	1.	4	2
	26	R.	WII			+0.064			----	I	2.	4	1½
	29	R.	WII			+0.027			----	I	1.	4	1½
	31	Fn.	WII			+0.008			−0.38	I	3.	6	2
Aug.	1	Hd.	WII			+0.026			−0.18	I	2.	9	2
	6	R.	WII			+0.023			----	II	1.	6	1
	8	R.	EII			+0.029			----	I	---		1
	9	Fn.	EII			−0.008			----	I	2.	2	3
	10	R.	EII			+0.045			----	II	1.	6	1
1912													
Feb.	*8*	*Hd.*	*EII*			*+0.066*	----		----	*0*	---		--
	9	*R.*	*EII*			*+0.076*	----		----	*0*	---		--
	12	*Hd.*	*EII*			*+0.005*	----		----	*0*	---		2½
	16	*R.*	*EII*			*+0.006*	----		----	*0*	---		--
Mar.	*1*	*R.*	*WII*			*−0.009*	----		----	*0*	---		--
July	25	Fn.	WII			−0.004			−0.49	0	---		3
	27	Fn.	WII			−0.010			+0.26	I	2.	5	1½
Aug.	7	Fn.	EII			+0.007			+1.01	I	---		2
	12	Fn.	EII			+0.012			+0.12	I	2.	5	2
1913													
Jan.	*3*	*Hd.*	*WII*			*+0.036*	*−0.83*		*−0.76*	*0*	---		*3*
	13	*R.*	*WII*			*+0.004*	*−0.93*		*−0.84*	*0*	---		3½
	21	*Fn.*	*EII*			*+0.021*	*+0.39*		*+0.41*	*0*	---		--
	27	*R.*	*EII*			*+0.009*	*+0.53*		*+0.57*	*0*	---		3½
Feb.	*4*	*Fn.*	*WII*			*+0.003*	*−0.28*		*−0.24*	*0*	---		*3*
	5	*R.*	*WII*			*+0.054*	*−0.74*		*−0.67*	*0*	---		*4*
	6	*Fn.*	*WII*			*+0.020*	*−0.10*		*−0.09*	*0*	---		*3*
	9	*Fn.*	*WII*			*−0.004*	*−0.72*		*−0.74*	*0*	---		*2*
	11	*Fn.*	*WII*			*−0.044*	*−0.81*		*−0.78*	*0*	---		2½
	12	*R.*	*WII*			*−0.011*	*−0.08*		*−0.04*	*0*	---		2½
May	28	R.	WII			+0.027			−0.15	II	3.	1	2½
	31	R.	WII			+0.016			----	I	2.	9	3½
June	18	R.	EII			+0.014			----	II	2.	6	2
	21	R.	EII			+0.037			−0.02	I	2.	9	3½
	24	Fn.	EII			+0.022			----	I	3.	5	2
	26	Hd.	EII			+0.001			−0.24	I	2.	9	2
	30	Hd.	EII			+0.015			----	II	2.	6	2
July	1	Fn.	EII			+0.047			----	I	2.	9	2
	4	Hd.	EII			+0.031			----	II	---		2
	5	Fn.	EII			+0.022			+0.19	I	2.	6	2½
	7	Hd.	WII			+0.007			+0.12	I	2.	4	3
	8	Fn.	WII			+0.033			+0.08	I	2.	6	2
	10	Fn.	WII			+0.036			----	I	2.	6	1½
	11	Hd.	WII			+0.001			----	I	2.	9	2
1914													
Jan.	*20*	*Hd.*	*WI*			*+0.027*	----		----	*0*	---		*3*
	21	*Hd.*	*WI*			*+0.063*	----		----	*0*	---		*3*
	28	*R.*	*WI*			*+0.041*	*−0.16*		*−0.10*	*0*	---		--
Feb.	*1*	*Fn.*	*WI*			*+0.031*	*+0.63*		*+0.66*	*0*	---		3½
	3	*Hd.*	*EI*			*+0.037*	----		----	*0*	---		*3*
	8	*Fn.*	*EI*			*−0.020*	----		----	*0*	---		*3*
Mar.	23	Hd.	EI			+0.016			----	I	2.	9	2
	24	Fn.	EI			+0.037			----	I	2.	4	2½
	26	Hd.	EI			+0.080			+0.43	I	2.	9	3
Apr.	1	Wy.	WI			+0.050			----	I	---		3½
	3	Fn.	WI			+0.039			----	I	2.	9	2½
June	11	Fn.	EI			+0.057			−0.24	I	---		3
	15	Fn.	EI			+0.030			----	I	2.	9	3
	16	Hd.	EI			+0.020			----	I	2.	9	3
	17	Wy.	EI			−0.007			+0.52	I	2.	9	3

				s	″	″			
1914									
June	27	Wy.	WI	+0.040		−0.23	0	---	3
	29	Fn.	WI	+0.065		+0.53	I	---	4½
	30	Hd.	WI	+0.031		----	I	2.9	2
July	2	Fn.	WI	+0.038		−0.06	I	2.9	2
	3	Hd.	WI	+0.018		----	I	2.9	2
	8	Fn.	WI	−0.001		+0.13	I	2.9	2
	9	Hd.	WI	+0.050		----	II	2.6	2
	11	Hd.	WI	+0.019		−0.58	II	---	2
	15	Hd.	WI	+0.015		−0.27	I	2.9	2
	16	Fn.	WI	−0.007		----	I	2.9	2½
	17	Hd.	WI	+0.026		−0.19	II	2.6	2½
	18	Hd.	EI	+0.021		−0.32	II	2.6	2
	19	Hd.	EI	+0.017		----	II	2.6	2
	20	Fn.	EI	+0.007		----	I	2.4	2
	21	Hd.	EI	+0.009		----	I	2.9	2
	22	Fn.	EI	−0.003		−0.39	I	3.4	2
	27	Fn.	EI	+0.040		−0.46	I	2.9	2
	28	Hd.	EI	+0.046		----	I	2.7	2½
	31	Fn.	EI	+0.039		+0.68	I	---	2
Aug.	3	Fn.	EI	+0.016		----	I	2.9	2
	13	Hd.	WI	+0.024		−0.05	I	---	2
	14	Wy.	WI	+0.029		−0.56	II	2.6	2½
	15	Fn.	WI	+0.056		----	I	---	2½
1915									
Jan.	*4*	*Wy.*	*EI*	*+0.007*	----	----	*0*	---	*3½*
	6	*Hd.*	*EI*	*+0.019*	----	----	*0*	---	*3*
	7	*Wy.*	*EI*	*−0.070*	*−0.27*	*−0.18*	*0*	---	*3*
	8	*An.*	*EI*	*+0.020*	----	----	*0*	---	*3*
	14	*Fn.*	*WI*	*+0.042*	----	----	*0*	---	*3½*
	19	*Hd.*	*EI*	-----	*+0.48*	*+0.54*	*0*	---	*2½*
	20	*Wy.*	*EI*	*+0.042*	*−0.47*	*−0.39*	*0*	---	*3½*
	21	*Fn.*	*EI*	-----	*+0.28*	*+0.40*	*0*	---	*3*
	28	*Wy.*	*EI*	*+0.034*	*−0.21*	*−0.07*	*0*	---	*3½*
June	8	Hd.	EI	+0.061		----	0	---	3
	9	An.	EI	+0.039		----	II	3.1	3
	10	Fn.	EI	+0.027		----	I	2.9	2
	12	An.	WI	+0.015		+0.10	II	3.6	2½
	17	Fn.	WI	+0.013		−0.46	I	3.4	2½
	18	Hd.	WI	−0.001		----	I	3.9	2
	20	An.	EI	+0.059		----	I	---	3
	22	Wy.	EI	+0.055		----	I	2.9	3
	24	Fn.	EI	+0.011		----	I	2.9	2½
July	2	Hd.	WI	+0.025		----	I	---	2½
	6	Fn.	WI	+0.002		+0.51	I	2.9	2½
	8	Hd.	WI	+0.018		----	II	3.1	2
	9	Fn.	WI	−0.031		----	I	2.9	2½
	11	Fn.	WI	+0.014		−0.62	I	2.9	3
	12	Hd.	WI	+0.011		----	I	---	2
	13	Fn.	WI	+0.033		----	I	3.4	3
	14	An.	WI	−0.004		−0.26	II	3.6	3
	16	Fn.	WI	+0.042		−0.91	I	3.4	3
	17	An.	WI	+0.023		−0.03	I	---	3
	22	Fn.	EI	+0.056		−0.09	I	3.4	3
	23	Hd.	EI	+0.034		+0.33	I	2.9	2½
	26	Fn.	EI	+0.013		----	I	3.4	2½
	27	Hd.	EI	+0.025		+0.24	I	---	2
Aug.	7	An.	EI	+0.012		−0.26	II	3.6	2½
	9	Fn.	EI	+0.057		----	0	---	3
	10	An.	EI	+0.024		+0.15	II	3.6	2
1916									
Jan.	*2*	*Hd.*	*EI*	*+0.033*	*−0.64*	*−0.51*	*0*	---	*3*
	7	*Hd.*	*EI*	*+0.057*	*−0.82*	*−0.67*	*0*	---	*3*
	13	*Wy.*	*EI*	*+0.024*	*−1.11*	*−0.99*	*0*	---	*4*
	20	*Hd.*	*EI*	-----	*−0.52*	*−0.34*	*0*	---	*3*
	23	*Hd.*	*EI*	*+0.045*	*−0.03*	*+0.02*	*0*	---	*3*
Feb.	*2*	*Hd.*	*EI*	*+0.018*	----	----	*0*	---	*3*
	3	*Wy.*	*EI*	-----	*−0.43*	*−0.34*	*0*	---	*3*
	15	*Wy.*	*WI*	*+0.040*	*−0.64*	*−0.61*	*0*	---	*3½*
Mar.	*3*	*Wy.*	*WI*	*+0.014*	----	----	*0*	---	*3*
July	14	Fn.	EI	+0.020		−0.22	I	2.9	2½
	18	Wy.	EI	+0.041		−0.17	I	---	2½
	20	Hd.	EI	−0.017		−0.37	I	3.4	3
	27	Fn.	WI	+0.003		−0.21	0	---	2½
	31	Hd.	WI	+0.021		----	0	---	3
Aug.	1	Fn.	WI	−0.018		−0.53	I	---	3
	4	Fn.	WI	+0.032		−0.76	I	3.4	2
	17	Fn.	EI	+0.038		−0.35	I	3.4	2
	18	Wy.	EI	+0.015		−0.49	I	3.4	2

				s	″	″			
1916									
Sept.	*11*	*Hd.*	*WI*	*+0.029*	*−0.19*	*−0.18*	*I*	---	*2*
	19	*Hd.*	*EI*	*−0.016*	*+0.24*	*+0.25*	*I*	---	*2*
	22	*Hd.*	*EI*	*+0.033*	*−0.82*	*−0.80*	*I*	---	*2*
	28	*Wy.*	*WI*	*+0.029*	*−1.44*	*−1.40*	*0*	---	*3*
Oct.	*10*	*Fn.*	*WI*	*+0.070*	*−1.70*	*−1.64*	*0*	---	*2½*
	17	*Fn.*	*WI*	*+0.005*	*−0.73*	*−0.65*	*0*	---	*3*
	23	*Wy.*	*WI*	*+0.037*	*−1.15*	*−1.11*	*0*	---	*3½*
	26	*Wy.*	*EI*	-----	*−1.28*	*−1.22*	*0*	---	*3½*
	27	*Hd.*	*EI*	*+0.020*	*−1.18*	*−1.07*	*0*	---	*3*
Nov.	*2*	*Hd.*	*EI*	*+0.041*	*−1.18*	*−1.04*	*0*	---	*3*
	3	*Fn.*	*EI*	*+0.056*	*−1.14*	*−1.00*	*0*	---	*3½*
	27	*Wy.*	*WI*	*+0.095*	*−1.20*	*−0.97*	*0*	---	*3½*
Dec.	*28*	*Hd.*	*WI*	*+0.054*	*−2.04*	*−1.97*	*0*	---	*3*
1917									
Feb.	*22*	*Hd.*	*WI*	-----	*+0.64*	*+0.73*	*0*	---	*3*
Mar.	*5*	*Fn.*	*WI*	*+0.044*	*−1.06*	*−1.06*	*0*	---	*2½*
	8	*Fn.*	*WI*	*+0.006*	*−0.91*	*−0.93*	*0*	---	*3*
July	30	Wy.	EII	+0.059		−0.45	I	2.9	2½
	31	Fn.	EII	−0.009		−0.87	I	3.4	2½
Aug.	3	Fn.	WII	+0.016		+0.11	I	2.9	2½
	6	Hd.	WII	+0.031		−0.17	I	2.9	2
	10	Wy.	WII	+0.014		−0.30	II	2.6	2½
	13	Fn.	WII	−0.017		−0.20	I	3.4	2½
	17	Wy.	WII	+0.007		−0.27	I	3.4	2½
	20	Fn.	WII	−0.022		−0.68	I	3.4	2
	21	Wy.	WII	−0.012		−0.09	I	3.4	2½
	25	Wy.	EII	+0.010		−0.01	I	3.4	2½
Sept.	4	Fn.	EII	−0.013		+0.17	I	2.9	2
	11	*Fn.*	*EII*	*+0.008*	*−0.25*	*−0.23*	*I*	---	*2*
	13	*Hd.*	*EII*	*+0.047*	*−0.34*	*−0.35*	*I*	---	*2*
Oct.	*2*	*Fn.*	*WII*	*−0.025*	*−0.03*	*+0.07*	*0*	---	*2*
	15	*Fn.*	*EII*	*+0.005*	*−0.16*	*−0.10*	*0*	---	*3*
Nov.	*1*	*Hd.*	*EII*	*+0.025*	*−1.08*	*−0.98*	*0*	---	*3*
1918									
Jan.	*7*	*Hd.*	*EII*	*+0.066*	*−1.23*	*−1.13*	*0*	---	*3*
	16	*Fn.*	*EII*	*+0.008*	*−0.36*	*−0.34*	*0*	---	*3½*
Feb.	*3*	*Hd.*	*WII*	*+0.075*	*−0.33*	*−0.23*	*0*	---	*3*
	10	*Wy.*	*WII*	*+0.065*	*−0.43*	*−0.35*	*0*	---	*3½*
	13	*Wy.*	*WII*	*+0.059*	*−1.31*	*−1.37*	*0*	---	*3*
	26	*Hd.*	*EII*	*+0.067*	*−0.29*	*−0.27*	*I*	---	*2*
Mar.	*3*	*Fn.*	*EII*	*+0.057*	*+0.31*	*+0.37*	*0*	---	*2½*
	11	*Fn.*	*WII*	*−0.009*	*−1.45*	*−1.47*	*0*	---	*3*
July	15	Wy.	EII	+0.021		+0.19	I	2.9	2½
	22	Wy.	EII	+0.018		+0.65	I	3.4	3
	25	Fn.	EII	−0.014		+0.46	I	2.9	2½
Aug.	1	Fn.	WII	−0.011		−0.65	0	---	2½
	5	Wy.	WII	+0.017		−0.29	I	3.4	2½
	16	Hd.	WII	0.000		+0.33	I	2.9	2
Mean			1914.88	+0.021		−0.09			
			1915.38						
Corr				−0.081		−0.19			

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1911									
June	21	T.	EII	-----		−0.4	0	---	--
	22	Fn.	EII	-----		−1.6	0	---	--
	27	Hd.	WII	-----		−2.9	0	---	--
	28	T.	WII	-----		−0.6	0	---	--
	29	Fn.	WII	-----		−1.4	I	---	--
	30	Hd.	WII	-----		−3.2	0	---	--
July	1	R.	WII	-----		−0.7	I	---	--
	3	Fn.	EII	-----		0.0	0	---	--
	5	R.	EII	-----		−1.7	I	---	4
	6	Fn.	EII	-----		−0.1	0	---	--
	15	R.	WII	-----		−1.5	0	---	5
1912									
Mar.	13	Hd.	EII	-----		−1.4	0	---	4
1913									
Mar.	21	R.	WII	-----		−1.3	0	---	--
Apr.	1	R.	EII	-----		−1.3	0	---	--
May	31	R.	WII	-----		−1.0	0	---	--
June	4	R.	WII	-----		−0.1	0	---	--

				s	″			
1914								
Aug. 22	An.	WI		-----	+0.3	0	---	--
Mean	1912.15			-----	−1.11			
Corr				-----	+0.33			

X Sagittarii

				h	m	s	°	′	″			
1911												
May 27	T.	EII		17	41	53.704	−27	47	50.38	0	5.5	--
29	Fn.	WII				53.706			50.79	0	4.9	--
June 1	Fn.	WII				53.745			50.10	0	5.0	--
11	R.	EII				53.674			51.06	0	---	--
1915												
June 17	Fn.	WI				53.736			50.90	0	5.0	3
18	Hd.	WI				53.703			50.67	0	6.0	3
20	An.	EI				53.738			50.05	0	6.0	3½
22	Wy.	EI				53.729			49.80	I	4.9	3½
Mean	1913.44			17	41	53.717	−27	47	50.47			
Corr						−0.081			0.00			

Lalande 32424

				h	m	s	°	′	″			
1911												
June 8	Fn.	WII		17	42	19.372	−22	26	40.76	0	7.3	--
9	Hd.	WII				19.348			43.06	0	6.0	--
15	Fn.	EII				19.357			43.14	0	6.6	--
20	Hd.	EII				19.358			42.32	0	---	--
1915												
June 19	Wy.	WI				19.375			42.66	0	6.5	3½
24	Fn.	EI				19.331			42.01	0	7.0	3
25	Wy.	EI				19.406			41.53	0	7.5	4
July 5	Hd.	WI				19.377			42.45	0	7.0	3
Mean	1913.47			17	42	19.366	−22	26	42.24			
Corr						−0.081			−0.06			

Weisse$_1$ XVII 780

				h	m	s	°	′	″			
1911												
May 20	T.	WII		17	42	28.814	−14	41	33.57	0	---	--
22	Fn.	WII				28.728			33.59	0	6.5	--
24	T.	EII				28.799			-----	0	---	5
25	Fn.	EII				28.798			32.92	0	---	--
1915												
May 9	Wy.	EI				28.729			33.45	0	7.0	3½
19	Fn.	EI				28.824			34.21	0	6.5	2½
31	Wy.	WI				28.730			34.00	0	6.0	2½
June 12	An.	WI				28.749			33.84	0	6.5	3
Mean	1913.39			17	42	28.771	−14	41	33.65			
	1913.68											
Corr						−0.081			−0.11			

Piazzi XVII 223

				h	m	s	°	′	″			
1913												
Apr. 20	R.	WII		17	42	50.187	−26	56	36.45	0	7.5	2½
May 3	R.	EII				50.142			36.19	0	8.0	3
5	Hd.	EII				50.151			36.96	0	7.5	3½
24	R.	WII				50.172			36.64	0	7.5	3½
1914												
May 16	Fn.	WI				50.189			37.09	0	7.5	3½
18	Fn.	WI				50.137			37.46	0	7.0	3½
19	Wy.	WI				50.170			38.20	0	---	3½
26	Wy.	EI				50.190			36.78	0	7.0	3
June 2	Fn.	EI				50.223			36.46	0	7.0	3
Mean	1913.93			17	42	50.173	−26	56	36.91			
Corr						−0.081			−0.01			

B. D.+38° 2997

				h	m	s	°	′	″			
1916												
July 6	Wy.	EI		17	42	-----	+38	54	57.64	0	6.5	2
14	Fn.	EI				-----			58.47	0	7.0	2
20	Hd.	EI				-----			58.47	0	6.5	2
Aug. 1	Fn.	WI				-----			58.28	0	7.0	3
4	Fn.	WI				-----			58.39	0	7.0	2
Mean	1916.56			17	42	-----	+38	54	58.25			
Corr						-----			−0.27			

μ Herculis

				h	m	s	°	′	″				
				17	42	56.049	+27	46	19.07				
1911						s			″				
June 18	R.	EII				+0.017			+0.69	I	---	--	
July 18	Hd.	EII				+0.044			----	I	3.4	--	
20	Fn.	EII				-----			+0.16	0	---	--	
22	R.	EII				+0.003			+0.46	I	3.9	1½	
24	Fn.	EII				−0.011			+0.95	I	3.3	--	
25	Hd.	EII				−0.011			+0.41	I	2.9	3	
26	R.	WII				+0.042			----	I	2.9	2	
27	Fn.	WII				+0.026			+0.62	I	3.4	2	
28	Hd.	WII				+0.019			+0.46	I	3.9	2	
31	Fn.	WII				−0.005			+0.28	I	3.7	--	
Aug. 1	Hd.	WII				0.000			+0.28	I	2.9	2	
6	R.	WII				+0.037			+0.23	I	1.9	1	
8	R.	EII				+0.008			−0.29	I	---	1	
9	Fn.	EII				+0.032			−0.43	I	3.1	--	
10	R.	EII				+0.018			+0.50	II	2.6	1	
1912													
Feb. 8	*Hd.*	*EII*				*+0.063*	*+0.55*		*+0.55*	*0*	---	--	
9	*R.*	*EII*				*+0.013*	----		----	*0*	---	--	
16	*R.*	*EII*				*+0.006*	*+0.94*		*+0.94*	*0*	---	--	
18	*Fn.*	*WII*				-----	*+0.33*		*+0.32*	*0*	---	*2*	
Mar. 1	*R.*	*WII*				*+0.018*	*+0.32*		*+0.33*	*0*	---	--	
10	*Hd.*	*EII*				-----	*+0.59*		*+0.59*	*0*	---	--	
June 10	Hd.–Fn.	EII				-----			−0.61	I	---	--	R.
10	Hd.–Fn.	EII				-----			+0.48	I	---	--	
11	Hd.–Fn.	EII				-----			+0.06	I	---	3	R.
11	Hd.–Fn.	EII				-----			−0.08	I	---	3	
20	Fn.–Hd.	EII				-----			−0.47	0	---	2	R.
20	Fn.–Hd.	EII				-----			+0.36	I	---	2	
July 2	Fn.–Hd.	EII				-----			−0.08	I	---	2	R.
2	Fn.–Hd.	EII				-----			−0.52	I	---	2	
3	Hd.–Fn.	WII				-----			+0.16	0	---	2	R.
3	Hd.–Fn.	WII				-----			0.00	I	---	2	
5	Hd.–Fn.	WII				-----			+0.12	I	---	--	R.
5	Hd.–Fn.	WII				-----			−0.17	I	---	--	
6	Fn.–Hd.	WII				-----			−0.02	I	---	2	R.
6	Fn.–Hd.	WII				-----			+0.11	I	---	2	
8	Fn.–Hd.	WII				-----			+0.16	I	---	2	R.
8	Fn.–Hd.	WII				-----			+0.07	I	---	2	
27	Fn.	WII				−0.013			−0.31	I	2.9	1½	
Aug. 5	Fn.	EII				+0.004			+0.55	I	2.8	2	
7	Fn.	EII				−0.009			−0.03	I	3.5	2	
23	Fn.	WII				+0.047			−0.05	I	---	2	
1913													
Jan. 13	*R.*	*WII*				*−0.006*	*−0.16*		*−0.13*	*0*	---	--	
21	*Fn.*	*EII*				*+0.014*	*+0.50*		*+0.50*	*0*	---	--	
27	*R.*	*EII*				*+0.024*	*+0.37*		*+0.38*	*0*	---	--	
Feb. 3	*Hd.*	*WII*				*+0.057*	*−0.15*		*−0.15*	*0*	---	*2*	
4	*Fn.*	*WII*				*−0.046*	*+0.24*		*+0.25*	*0*	---	*2½*	
6	*Hd.*	*WII*				*+0.010*	*−0.69*		*−0.69*	*0*	---	*3*	
9	*Fn.*	*WII*				*+0.019*	*+0.68*		*+0.67*	*0*	---	*2*	
11	*Fn.*	*WII*				*−0.076*	*−0.45*		*−0.44*	*0*	---	*2½*	
12	*R.*	*WII*				*+0.014*	*+0.05*		*+0.06*	*0*	---	*2*	
June 21	R.	EII				−0.022			----	I	3.4	2½	
24	Fn.	EII				+0.002			+0.46	I	3.2	2	
30	Hd.	EII				+0.021			+0.34	I	2.9	2	
July 1	Fn.	EII				+0.009			+0.18	I	3.3	2	
4	Hd.	EII				+0.007			+0.16	0	---	2	
10	Fn.	WII				+0.019			+0.53	I	2.9	1½	
11	Hd.	WII				+0.015			+0.36	I	3.4	2	

				s	″	″			
1913									
July	14	Fn.	WII	+0.010		+0.15	I	3.3	2
Dec.	*28*	*Fn.*	*WI*	*+0.027*	*−0.64*	*−0.60*	*0*	*---*	*3½*
	29	*Wy.*	*WI*	*−0.026*	*+0.59*	*+0.63*	*0*	*---*	*--*
1914									
Jan.	*12*	*Wy.*	*EI*	*−0.046*	*−1.89*	*−1.85*	*0*	*---*	*4*
	20	*Hd.*	*WI*	*+0.003*	*+0.18*	*+0.18*	*0*	*---*	*3*
	21	*Hd.*	*WI*	*+0.042*	*−0.24*	*−0.22*	*0*	*---*	*2½*
Feb.	*1*	*Fn.*	*WI*	*+0.037*	*+0.07*	*+0.08*	*0*	*---*	*2½*
	3	*Hd.*	*EI*	*+0.043*	*−0.33*	*−0.34*	*0*	*---*	*3*
	8	*Fn.*	*EI*	*+0.071*	*−0.06*	*−0.05*	*0*	*---*	*2½*
Mar.	23	Hd.	EI	−0.002		+0.34	I	3.4	2
	24	Fn.	EI	+0.017		+0.36	I	3.9	2
	26	Hd.	EI	+0.033		+0.31	I	3.4	2
Apr.	1	Wy.	WI	+0.004		----	I	---	3
	3	Fn.	WI	+0.019		−0.17	0	---	2
June	16	Hd.	EI	+0.018		+0.21	I	3.4	2½
	17	Wy.	EI	−0.010		+0.26	I	3.4	3
	27	Wy.	WI	+0.014		+0.48	0	---	2½
July	9	Hd.	WI	+0.030		----	I	2.9	2
	10	Fn.	WI	−0.006		----	0	---	2
	11	Hd.	WI	+0.001		+0.42	I	---	2
	15	Hd.	WI	+0.042		+0.38	I	---	2
	16	Fn.	WI	+0.032		+0.54	I	2.9	2½
	17	Hd.	WI	+0.028		+1.01	I	3.4	2
	18	Hd.	EI	+0.006		0.00	I	2.9	3
	19	Hd.	EI	−0.023		----	I	2.9	2
	20	Fn.	EI	+0.001		+0.39	I	3.4	1½
	21	Hd.	EI	+0.019		+0.08	I	3.1	2½
	22	Fn.	EI	+0.036		+0.18	I	---	2
	27	Fn.	EI	+0.023		+0.17	I	---	2
	28	Hd.	EI	+0.002		+0.23	I	2.9	2
	29	Fn.	EI	+0.006		+0.03	0	---	2
	31	Fn.	EI	−0.016		+0.12	0	---	2
Aug.	3	Fn.	EI	−0.005		+0.50	I	2.9	2
	13	Hd.	WI	+0.002		+0.36	I	---	2
	14	Wy.	WI	+0.012		+0.14	I	3.4	2½
	15	Fn.	WI	−0.002		+0.63	I	---	3
	18	Wy.	WI	−0.019		+0.16	I	2.9	3
1915									
Jan.	*4*	*Wy.*	*EI*	*+0.040*	*−0.16*	*−0.15*	*0*	*---*	*3½*
	6	*Hd.*	*EI*	*+0.067*	*−0.78*	*−0.76*	*0*	*---*	*2½*
	7	*Wy.*	*EI*	*+0.072*	*−0.07*	*−0.04*	*0*	*---*	*3*
	8	*An.*	*EI*	*+0.050*	*−0.03*	*−0.01*	*0*	*---*	*3*
	19	*Hd.*	*WI*	*-----*	*+0.41*	*+0.43*	*0*	*---*	*2½*
	20	*Wy.*	*EI*	*+0.053*	*−0.21*	*−0.18*	*0*	*---*	*3½*
	21	*Fn.*	*EI*	*-----*	*+0.13*	*+0.16*	*0*	*---*	*3*
	28	*Wy.*	*EI*	*+0.071*	*−0.72*	*−0.68*	*0*	*---*	*3*
June	9	An.	EI	+0.027		----	I	---	3
	29	Hd.	EI	+0.043		+0.45	I	---	2
July	2	Hd.	WI	+0.041		----	I	---	2
	6	Fn.	WI	+0.029		+0.87	I	3.4	2½
	8	Hd.	WI	+0.024		+0.43	I	3.4	2
	9	Fn.	WI	+0.003		----	I	3.9	2½
	11	Fn.	WI	−0.004		+0.80	I	2.9	3
	12	Hd.	WI	+0.037		−0.21	I	---	3
	13	Fn.	WI	+0.028		+0.68	I	3.9	3½
	17	An.	WI	+0.066		+0.68	I	---	3
	20	Hd.	EI	+0.049		+0.22	0	---	3
	22	Fn.	EI	+0.016		+0.67	I	3.4	2½
	23	Hd.	EI	+0.008		+0.08	I	3.4	2
	24	An.	EI	+0.020		+0.60	I	---	2
	26	Fn.	EI	−0.007		−0.10	I	3.4	2½
	27	Hd.	EI	+0.037		+0.28	0	---	2
Aug.	7	An.	EI	+0.009		+0.43	I	---	2
	9	Fn.	EI	+0.008		+0.03	0	---	2½
	10	An.	EI	+0.013		+0.87	I	---	1½
1916									
Jan.	*2*	*Hd.*	*EI*	*+0.059*	*−0.67*	*−0.63*	*0*	*---*	*3*
	3	*Fn.*	*EI*	*+0.072*	*−0.19*	*−0.16*	*0*	*---*	*3½*
	7	*Hd.*	*EI*	*+0.105*	*−0.20*	*−0.15*	*0*	*---*	*3*
	13	*Wy.*	*EI*	*+0.045*	*−0.33*	*−0.30*	*0*	*---*	*3½*
	18	*Fn.*	*EI*	*+0.025*	*+0.76*	*+0.79*	*0*	*---*	*3½*
	20	*Hd.*	*EI*	*-----*	*−0.40*	*−0.35*	*0*	*---*	*3*
	23	*Hd.*	*EI*	*+0.095*	*−0.45*	*−0.44*	*0*	*---*	*2½*
Feb.	*2*	*Hd.*	*EI*	*−0.031*	*+0.06*	*+0.10*	*0*	*---*	*3*
	3	*Wy.*	*EI*	*-----*	*−0.45*	*−0.42*	*0*	*---*	*3*
	15	*Wy.*	*WI*	*+0.017*	*−0.54*	*−0.53*	*0*	*---*	*3½*
	27	*Fn.*	*WI*	*−0.018*	*−0.62*	*−0.61*	*0*	*---*	*3*

				s	″	″			
1916									
Mar.	*10*	*Fn.*	*WI*	*+0.043*	----	----	*0*	*---*	*2½*
	11	*Wy.*	*WI*	*−0.002*	----	----	*I*	*---*	*2*
	16	*Hd.*	*WI*	*+0.012*	----	----	*I*	*---*	*3½*
Mean			1914.00	+0.014		+0.29			
			1913.78						
Corr				−0.081		−0.25			

Pulkowa 1855, 2509

				h	m	s	°	′	″			
1913												
Apr.	17	R.	WII	17	43	9.678	+17	43	46.82	0	6.0	2
	19	R.	WII			9.680			45.52	0	6.0	2
	25	Fn.	EII			9.700			46.63	0	5.5	1½
	30	R.	EII			9.668			46.73	0	6.0	2½
1914												
May	20	Hd.	WI			9.671			47.12	0	6.5	3
	21	Fn.	WI			9.710			46.42	0	5.5	3
	22	Wy.	EI			9.689			46.77	0	6.0	3
	25	Fn.	EI			9.710			46.23	0	6.0	2½
Mean			1913.85	17	43	9.688	+17	43	46.53			
Corr						−0.081			−0.23			

γ Ophiuchi

			h	m	s	°	′	″
			17	43	22.756	+2	44	25.66
1913								
June	9	Hd.	WII		+0.024		+0.24	I 3.4 3
	10	R.	WII		+0.033		−0.05	I 3.4 2
	12	Hd.	EII		+0.051		−0.07	I 4.4 2
	13	Fn.	EII		+0.066		−0.02	I 4.4 3½
1914								
June	6	Wy.	EI		+0.061		−0.52	I 3.9 2½
	11	Fn.	EI		+0.026		−0.75	0 --- 3
	23	Hd.	WI		+0.012		+0.18	I --- 2
	30	Hd.	WI		+0.017		+0.10	I 3.9 2½
Mean		1913.95			+0.036		−0.11	
Corr					−0.081		−0.19	

ψ Draconis

			h	m	s	°	′	″
			17	43	32.189	+72	11	34.61
1913								
June	5	Hd.	WII		+0.01		+0.09	I 4.4 2
	6	Fn.	WII		+0.13		+0.67	0 4.9 2
	18	R.	EII		+0.08		−0.10	I 4.4 1½
	19	Hd.	EII		+0.10		+0.51	0 --- 2
1914								
June	13	Wy.	EI		−0.03		+0.37	0 --- 3
	15	Fn.	EI		+0.13		+0.14	0 5.0 2½
July	3	Hd.	WI		+0.02		+0.49	I 3.9 2
	8	Fn.	WI		−0.02		+0.09	0 --- 2
Mean		1913.96			+0.052		+0.28	
Corr					−0.081		−0.34	

ψ Draconis s. p.

			h	m	s	°	′	″
			17	43	32.189	+72	11	34.59
1912								
Feb.	9	Hd.	EII		+0.01		+0.25	0 --- 5
	14	R.	EII		+0.03		−0.50	0 --- 2½
	23	Hd.	WII		+0.11		+0.47	0 --- 4
	28	R.	WII		−0.09		−0.03	0 --- 5
1915								
Nov.	27	Wy.	EI		−0.01		−0.71	I 4.9 3
	29	Wy.	EI		+0.05		−1.16	I 4.4 3
Dec.	6	Hd.	WI		−0.01		−0.68	0 5.5 3½
	8	Wy.	WI		+0.11		−0.25	I 4.9 3½
Mean		1914.03			+0.025		−0.33	
Corr					−0.081		+0.57	

87 Herculis

				h	m	s	°	′	″			
1913												
June 21	R.	EII		17	45	10.188	+25	39	8.58	0	5.5	2½
26	Hd.	EII				10.173			8.18	I	4.9	2
July 7	Hd.	WII				10.179			8.08	0	5.5	3
8	Fn.	WII				10.213			8.02	0	5.5	2
1914												
June 2	Fn.	EI				10.166			8.26	0	5.0	2
5	Fn.	EI				10.187			7.49	0	6.0	2
July 9	Hd.	WI				10.207			8.43	I	---	2
10	Fn.	WI				10.138			7.66	0	---	2
Mean	1913.98			17	45	10.181	+25	39	8.09			
Corr						−0.081			−0.24			

B. D.+9° 3485

				h	m	s	°	′	″			
1911												
July 15	R.	WII		17	45	53.689	+9	52	31.54	0	7.0	2
17	Fn.	EII				53.700			31.77	0	6.9	2½
18	Hd.	EII				53.649			31.57	0	7.0	2
26	R.	WII				53.675			31.23	0	---	3
1915												
June 19	Wy	WI				53.668			31.68	0	7.0	3
20	An.	EI				53.680			30.95	0	7.0	3
22	Wy.	EI				53.690			32.09	0	7.0	2½
July 2	Hd.	WI				53.660			31.35	0	7.5	2½
Mean	1913.51			17	45	53.676	+9	52	31.52			
Corr						−0.081			−0.21			

B. D.−1° 3412

				h	m	s	°	′	″			
1911												
June 8	Fn.	WII		17	47	20.301	− 1	12	51.67	0	6.8	--
9	Hd.	WII				20.285			51.28	0	6.0	--
18	R.	EII				20.343			51.51	0	---	--
20	Hd.	EII				20.311			51.78	0	---	--
1915												
June 10	Fn.	EI				20.297			51.34	0	6.5	3
12	An.	WI				20.226			51.20	0	7.5	2½
17	Fn.	WI				20.238			51.11	0	6.5	2½
24	Fn.	EI				20.276			51.39	0	6.5	2½
Mean	1913.46			17	47	20.285	− 1	12	51.41			
Corr						−0.081			−0.18			

168 H¹. Herculis

				h	m	s	°	′	″			
1915												
May 31	Wy.	WI		17	49	9.026	+40	0	-----	0	5.5	2½
June 29	Hd.	EI				9.035			-----	0	---	2
July 6	Fn.	WI				8.991			-----	0	6.0	2
9	Fn.	WI				8.946			-----	0	---	2½
12	Hd.	WI				9.018			-----	0	---	2½
16	Fn.	WI				8.993			-----	0	6.0	2½
Aug. 7	An.	EI				9.032			-----	0	6.0	2
1916												
Aug. 14	Wy.	EI				8.980			-----	0	7.0	2½
18	Wy.	EI				8.994			-----	0	6.5	2
Sept. 1	Fn.	WI				8.989			-----	0	6.5	2½
1917												
Aug. 3	Fn.	WII				8.992			-----	0	6.0	2
17	Wy.	WII				9.019			-----	0	6.5	2
1918												
July 22	Wy.	EII				8.990			-----	0	6.0	2½
25	Fn.	EII				8.969			-----	0	6.0	2
Aug. 1	Fn.	WII				8.997			-----	0	6.5	2½
5	Wy.	WII				8.992			-----	0	6.5	2½
Mean	1916.75			17	49	8.998	+40	0	-----			
Corr						−.081			-----			

Schwerd 1059

				h	m	s	°	′	″			
1911												
June 21	T.	EII		17	49	17.83	+80	18	48.35	0	7.0	--
27	Hd.	WII				17.63			48.66	0	8.0	--
28	T.	WII				17.71			49.00	0	7.5	--
July 3	Fn.	EII				17.84			48.03	0	7.5	--
1915												
May 9	Wy.	EI				17.43			49.39	0	6.5	3
19	Fn.	EI				17.78			49.29	0	6.5	2½
June 4	An.	WI				17.68			48.93	0	7.0	3
9	An.	EI				17.76			49.36	0	7.0	3
18	Hd.	WI				17.71			48.88	0	7.5	2
19	Wy.	WI				17.46			49.57	0	7.0	3
Mean	1913.85			17	49	17.683	+80	18	48.95			
Corr						−0.081			−0.37			

Schwerd 1059 s. p.

				h	m	s	°	′	″			
1912												
Jan. 22	Hd.	WII		17	49	17.63	+80	18	47.82	0	7.5	4
24	R.	EII				17.41			47.92	0	7.5	2
Feb. 2	Hd.	WII				17.72			48.48	0	7.2	3
6	Hd.	EII				17.46			47.98	0	7.0	3½
1915												
Oct. 25	Wy.	WI				17.51			47.80	0	7.5	3½
29	Hd.	EI				17.64			47.64	0	7.5	3½
30	Fn.	EI				17.39			47.26	0	7.0	3
Nov. 15	Wy.	WI				17.42			47.26	0	7.5	4
Mean	1913.96			17	49	17.522	+80	18	47.77			
Corr						−0.081			+0.48			

B. D.+38° 3025

				h	m	s	°	′	″			
1916												
July 14	Fn.	EI		17	49	-----	+38	50	23.30	0	7.0	2
18	Wy.	EI				-----			23.67	0	7.0	2
20	Hd.	EI				-----			23.33	0	7.5	2
Aug. 4	Fn.	WI				-----			22.90	0	7.0	2
7	Wy.	EI				-----			23.51	0	7.0	2
25	Fn.	WI				-----			23.41	0	7.0	2
Mean	1916.58			17	49	-----	+38	50	23.35			
Corr						-----			−0.27			

Weisse, XVII 951

				h	m	s	°	′	″			
1911												
June 29	Fn.	WII		17	50	5.074	− 7	42	58.87	0	7.4	--
30	Hd.	WII				5.055			59.62	0	7.0	--
July 5	R.	EII				5.038			58.50	0	7.0	1
6	Fn.	EII				5.103			58.44	0	7.3	3
1915												
June 20	An.	EI				5.036			58.17	0	7.0	3
22	Wy.	EI				5.058			58.27	0	7.0	3
July 2	Hd.	WI				5.081			59.39	0	7.5	2½
5	Hd.	WI				5.091			59.58	0	7.5	2½
Mean	1913.50			17	50	5.067	− 7	42	58.86			
Corr						−0.081			−0.15			

89 Herculis

				h	m	s	°	′	″			
				17	51	47.370	+26	3	49.67			
1912												
July 27	Fn.	WII				−0.058			+0.22	0	5.7	2
Aug. 5	Fn.	EII				−0.054			+0.15	0	5.8	2
7	Fn.	EII				−0.019			+0.30	0	5.8	2
23	Fn.	WII				−0.025			+0.08	0	---	2
1914												
May 18	Fn.	WI				−0.045			+0.03	0	5.5	2
19	Wy.	WI				−0.061			+0.11	0	6.2	3
22	Wy.	EI				−0.025			+0.08	I	5.4	2½
25	Fn.	EI				−0.037			+0.19	0	5.5	2½
Mean	1913.50					−0.040			+0.14			
Corr						−0.081			−0.24			

ξ Draconis

			h m s	° ′ ″			
			17 51 58.463	+56 53 11.83			
1911			s	″	″		
Oct. 5	Hd.	EII	−0.092		−0.55	0	--- 2
6	Hd.	EII	−0.056		−0.18	0	--- --
9	Fn.	WII	-----		+0.28	0	--- 1½
11	Fn.	WII	−0.072		+0.08	0	--- --
12	Fn.	WII	−0.136		+0.03	0	--- --
13	Fn.	WII	−0.102		+0.08	0	--- 1½
1912							
Mar. 13	*Hd.*	*EII*	-----	*+0.32*	*+0.38*	*0*	*--- 2*
1915							
June 29	Hd.	EI	−0.074		+0.72	I	--- 2
July 6	Fn.	WI	−0.032		+0.90	I	4.4 2
8	Hd.	WI	−0.113		+0.62	I	3.9 2
22	Fn.	EI	−0.001		+0.57	I	3.9 2
Mean		1913.44	−0.075		+0.26		
		1913.27					
Corr			−0.081		−0.31		

ξ Draconis s. p.

			h m s	° ′ ″			
			17 51 -----	+56 53 11.86			
1911							
Oct. 12	Fn.	WII	-----		−2.3	0	--- --
1912							
Oct. 1	Hd.	EII	-----		+1.5	0	--- 5
2	Hd.	EII	-----		[−4.9]	0	--- 5
6	Hd.	WII	-----		−3.3	0	--- 5
10	R.	WII	-----		+0.1	0	--- --
15	R.	WII	-----		+4.2	0	--- --
1913							
Dec. 13	R.	EI	-----		+0.5	0	--- --
1916							
Feb. 3	Hd.	EI	-----		−2.5	0	--- 4
7	Wy.	EI	-----		+5.1	0	--- 5
Mar. 4	Fn.	WI	-----		[+6.5][1]	0	4½
Mean		1913.62	-----		+0.41		
Corr			-----		+1.41		

Pulkowa 1855, 2527

			h m s	° ′ ″			
1913							
Apr. 17	R.	WII	17 52 3.921	+22 28 38.28		0	5.5 1½
19	R.	WII	3.879		37.69	0	6.0 1½
25	Fn.	EII	3.973		39.20	0	5.6 1½
30	R.	EII	3.932		38.30	0	6.0 2½
1914							
May 20	Hd.	WI	3.942		38.76	0	6.0 3
21	Fn.	WI	3.974		38.77	0	5.5 3
26	Wy.	EI	3.949		38.61	0	5.5 2½
June 2	Fn.	EI	3.930		39.26	0	5.5 2
Mean		1913.85	17 52 3.938	+22 28 38.61			
Corr			−0.081		−0.23		

θ Herculis

			h m s	° ′ ″			
			17 53 9.981	+37 15 43.02			
1913							
May 28	R.	WII	+0.023		+0.52	I	3.9 2½
June 4	R.	WII	−0.009		−0.49	I	4.4 2
12	Hd.	EII	+0.032		+0.42	I	3.9 2
13	Fn.	EII	+0.012		+0.01	0	4.0 2
1914							
June 5	Fn.	EI	+0.026		+0.44	I	3.9 2
6	Wy.	EI	+0.027		−0.17	I	3.9 2
23	Hd.	WI	−0.016		+0.36	I	3.4 2
30	Hd.	WI	+0.003		+0.06	I	3.9 2
1915							
July 2	Hd.	WI	−0.020		-----	I	4.4 2
20	Hd.	EI	−0.014		-----	0	--- 3
1916			s		″		
Mar. 11	Wy.	WI	−0.039		-----	0	--- 2
Aug. 14	Wy.	EI	−0.016		-----	I	3.9 2½
1917							
Aug. 20	Fn.	WII	−0.028		-----	0	--- 2
1918							
July 25	Fn.	EII	−0.004		-----	I	3.9 2
Aug. 1	Fn.	WII	+0.045		-----	0	5.5 2
Mean		1915.35	+0.001		+0.14		
		1913.95					
Corr			−0.081		−0.26		

35 Draconis

			h m s	° ′ ″			
			17 53 28.677	+76 58 32.05			
1913							
Apr. 20	R.	WII	−0.06		+0.77	0	5.0 2
May 3	R.	EII	+0.09		+0.88	0	6.0 3½
5	Hd.	EII	−0.03		+0.44	0	6.0 2
24	R.	WII	0.00		+0.09	0	5.0 2½
1914							
June 11	Fn.	EI	−0.02		+0.66	0	--- 2½
13	Wy.	EI	−0.07		+0.40	0	--- 2½
July 3	Hd.	WI	−0.06		+0.16	0	6.0 2
8	Fn.	WI	−0.14		+0.44	0	5.0 2
Mean		1913.91	−0.036		+0.48		
Corr			−0.081		−0.36		

35 Draconis s. p.

			h m s	° ′ ″			
			17 53 28.678	+76 58 32.06			
1912							
Feb. 9	Hd.	EII	−0.04		−0.80	0	5.5 4
13	Hd.	EII	−0.15		−0.39	0	6.0 3
22	R.	WII	−0.37		−0.18	0	--- 5
23	Hd.	WII	+0.13		+0.16	0	5.5 4
1915							
Oct. 21	Fn.	WI	−0.24		+1.18	0	5.5 3½
22	Hd.	WI	−0.13		−0.53	0	--- 3½
28	Wy.	EI	+0.13		+0.31	0	--- 4½
29	Hd.	EI	+0.03		−0.13	0	5.5 4
Mean		1913.97	−0.080		−0.05		
Corr			−0.081		+0.51		

Oeltzen 17675

			h m s	° ′ ″			
1911							
July 29	R.	WII	17 53 44.737	+55 58 49.20		0	--- 2½
31	Fn.	WII	44.714		48.83	0	--- --
Aug. 1	Hd.	WII	------		48.82	0	5.5 2
6	R.	WII	44.742		48.71	0	5.0 1
9	Fn.	EII	44.666		48.78	0	--- --
10	R.	EII	44.736		49.28	0	6.0 1
1915							
May 9	Wy.	EI	44.770		49.00	0	6.2 2½
19	Fn.	EI	44.792		49.75	0	6.5 2½
31	Wy.	WI	44.767		49.70	0	6.0 2½
June 12	An.	WI	44.820		49.21	0	--- 2½
Mean		1913.28	17 53 44.749	+55 58 49.13			
		1913.11					
Corr			−0.081		−0.30		

ν Ophiuchi

			h m s	° ′ ″			
			17 54 4.279	−9 45 47.99			
1911							
June 8	Fn.	WII	+0.086		+0.80	I	4.1 --
9	Hd.	WII	+0.043		−0.02	I	3.9 --
15	Fn.	EII	+0.074		−0.92	I	3.1 --
20	Hd.	EII	[+0.223][2]		+0.10	0	--- --

[1] One bisection only.

[2] Clouds; seeing very poor.

				s	″			
1915								
June	9	An.	EI	+0.025	+0.47	I	4.9	3
	10	Fn.	EI	+0.070	−0.40	I	3.9	3
	17	Fn.	WI	+0.020	−0.01	I	3.9	3
	18	Hd.	WI	+0.036	−0.47	I	---	2
Mean		1913.73		+0.051	−0.06			
		1913.45						
Corr				−0.081	−0.14			

Lalande 32965

				h m s	° ′ ″			
1913								
June	5	Hd.	WII	17 54 6.898	+33 24 38.15	0	6.5	2
	6	Fn.	WII	6.899	38.02	0	7.5	2
	17	Fn.	EII	6.917	36.62	0	7.0	3
	18	R.	EII	6.899	36.95	0	7.5	--
1914								
July	16	Fn.	WI	6.950	37.74	0	7.0	2½
	17	Hd.	WI	6.885	37.94	0	7.0	2
	19	Hd.	EI	6.897	37.47	0	7.0	2
	20	Fn.	EI	6.855	38.14	0	7.0	1½
Mean		1914.00		17 54 6.900	+33 24 37.63			
Corr				−0.081	−0.26			

Weisse$_1$ XVII 1071

				h m s	° ′ ″			
1911								
Aug.	7	Fn.	WII	17 54 14.975	+14 31 8.72	0	---	3
	16	Fn.	EII	14.972	8.37	0	---	2
	17	R.	EII	15.031	8.22	0	6.8	2½
	19	R.	EII	15.008	8.55	0	7.0	1
	21	Fn.	EII	14.992	8.76	0	---	2½
Sept.	1	Fn.	WII	14.971	8.61	0	---	2
1915								
July	9	Fn.	WI	14.988	8.80	0	8.0	2½
	16	Fn.	WI	14.998	8.61	0	7.0	2½
	27	Hd.	EI	14.967	8.58	0	---	2
Aug.	5	Fn.	EI	14.928	8.48	0	7.0	3
Mean		1913.20		17 54 14.983	+14 31 8.57			
Corr				−0.081	−0.22			

ξ Herculis

				h m s	° ′ ″			
				17 54 16.086	+29 15 25.38			
1913								
June	9	Hd.	WII	−0.031	+0.10	I	3.4	3
	10	R.	WII	+0.005	−0.30	I	3.4	2
	19	Hd.	EII	−0.012	−0.37	I	---	3
	21	R.	EII	−0.009	+0.17	I	---	3
1914								
June	15	Fn.	EI	−0.018	−0.20	I	3.9	2
	16	Hd.	EI	−0.010	+0.01	I	3.4	3
July	9	Hd.	WI	−0.002	−0.22	I	2.9	2
	10	Fn.	WI	−0.069	−0.61	0	---	2
Mean		1913.97		−0.018	−0.18			
Corr				−0.081	−0.25			

γ Draconis

				h m s	° ′ ″				
				17 54 30.966	+51 29 56.70				
1912									
June	10	Hd.–Fn.	EII	-----	−0.34	0	---	--	R.
	10	Hd.–Fn.	EII	-----	−0.05	0	---	--	
	11	Hd.–Fn.	EII	-----	−0.17	I	---	3	R.
	11	Hd.–Fn.	EII	-----	−0.04	I	---	3	
	20	Fn.–Hd.	EII	-----	−0.72	I	---	2	R.
	20	Fn.–Hd.	EII	-----	+0.34	II	---	2	
July	2	Fn.–Hd.	EII	-----	−0.38	I	---	2	R.
	2	Fn.–Hd.	EII	-----	+0.39	I	---	2	
	3	Hd.–Fn.	WII	-----	−0.04	I	---	2	R.
	3	Hd.–Fn.	WII	-----	+0.31	I	---	2	
	5	Hd.–Fn.	WII	-----	−0.10	I	---	3	R.
	5	Hd.–Fn.	WII	-----	−0.18	II	---	3	
	6	Fn.–Hd.	WII	-----	+0.27	I	---	2	R.
	6	Fn.–Hd.	WII	-----	+0.61	I	---	2	
	8	Fn.–Hd.	WII	-----	−0.34	I	---	2	R.
	8	Fn.–Hd.	WII	-----	+0.58	I	---	2	

				″	″			
1913								
June	26	Hd.	EII	−0.037	+0.36	II	2.6	2
July	3	R.	EII	−0.022	+0.21	I	---	2
	8	Fn.	WII	−0.028	+0.49	I	1.9	1½
	12	Hd.	WII	−0.041	+0.67	I	1.9	2½
1914								
June	17	Wy.	EI	+0.016	+0.65	II	2.6	2½
July	11	Hd.	WI	+0.028	+1.09	I	---	2
	15	Hd.	WI	+0.015	+0.42	I	---	3
	18	Hd.	EI	−0.018	+0.07	II	2.6	2
1916								
July	18	Wy.	EI	−0.008	−0.21	II	2.1	2
	20	Hd.	EI	−0.030	+0.09	II	2.6	2
Aug.	1	Fn.	WI	+0.057	+0.96	I	2.9	2½
	4	Fn.	WI	+0.004	+0.46	I	3.4	2
	7	Wy.	EI	−0.032	−0.08	I	2.9	2½
	17	Fn.	EI	−0.080	+0.34	I	2.9	2
	22	Fn.	EI	−0.050	+0.15	I	---	2½
Sept.	1	Fn.	WI	−0.005	+0.36	I	2.4	2½
	11	Hd.	WI	−0.014	+1.07	I	1.9	2
	19	*Hd.*	*EI*	*−0.038*	*−0.11*	*−0.12*	*I*	---	*1½*
	20	*Wy.*	*EI*	*−0.007*	*−0.18*	*−0.21*	*I*	---	*3*
	22	*Hd.*	*EI*	*+0.005*	*+0.81*	*+0.81*	*I*	---	*2*
	28	*Wy.*	*WI*	*+0.044*	*+0.72*	*+0.71*	*0*	---	*3*
Oct.	*17*	*Fn.*	*WI*	*−0.060*	*+0.22*	*+0.20*	*0*	---	*3*
	23	*Wy.*	*WI*	*−0.035*	*−0.03*	*−0.04*	*0*	---	*3*
	26	*Wy.*	*EI*	*−0.142*	*+0.48*	*+0.46*	*0*	---	*3½*
	27	*Hd.*	*EI*	*−0.022*	*−0.29*	*−0.32*	*I*	---	*2½*
Nov.	*2*	*Hd.*	*EI*	*−0.044*	*0.00*	*−0.03*	*I*	---	*2*
	3	*Fn.*	*EI*	*−0.018*	*+0.27*	*+0.22*	*0*	---	*3*
	7	*Wy.*	*EI*	*−0.045*	*−0.35*	*−0.37*	*0*	---	*3½*
	10	*Fn.*	*EI*	*−0.143*	*+0.49*	*+0.44*	*0*	---	*3*
	27	*Wy.*	*WI*	*−0.035*	*+0.46*	*+0.42*	*I*	---	*3½*
Dec.	*25*	*Fn.*	*WI*	*−0.052*	*+0.08*	*+0.04*	*0*	---	*3½*
	28	*Hd.*	*WI*	*−0.004*	*+0.36*	*+0.33*	*I*	---	*3*
1917								
Jan.	*1*	*Wy.*	*WI*	*+0.010*	*+1.26*	*+1.22*	*0*	---	*3½*
July	31	Fn.	EII	−0.022		+0.25	I	2.9	2
Aug.	3	Fn.	WII	−0.023		+0.86	I	2.4	2
	6	Hd.	WII	+0.025		+0.49	II	3.1	2
	10	Wy.	WII	+0.017		+0.49	II	2.1	2½
	13	Fn.	WII	+0.002		0.00	I	2.4	2
	17	Wy.	WII	+0.030		+0.75	II	2.6	2½
Sept.	*13*	*Hd.*	*EII*	*+0.037*	*+0.26*	*+0.26*	*II*	---	*2*
Oct.	*15*	*Fn.*	*EII*	*−0.027*	*+0.28*	*+0.25*	*0*	---	*3*
	26	*Fn.*	*EII*	*+0.027*	*−0.57*	*−0.60*	*0*	---	*3*
Nov.	*1*	*Hd.*	*EII*	*+0.043*	*−0.30*	*−0.32*	*I*	---	*2*
	2	*Fn.*	*EII*	*+0.044*	*−0.09*	*−0.14*	*0*	---	*3½*
	12	*Wy.*	*WII*	*−0.071*	*−0.92*	*−0.93*	*0*	---	*4*
	20	*Fn.*	*WII*	*−0.058*	*+1.67*	*+1.63*	*0*	---	*3*
1918								
Jan.	*7*	*Hd.*	*EII*	*+0.085*	*−0.45*	*−0.49*	*0*	---	*3*
	16	*Fn.*	*EII*	*+0.061*	*+0.13*	*+0.12*	*0*	---	*3½*
July	15	Wy.	EII	+0.040		+0.41	II	2.1	2½
	22	Wy.	EII	+0.005		+0.64	I	---	2½
Aug.	5	Wy.	WII	+0.041		−0.14	II	2.1	2½
	15	Fn.	WII	+0.009		−0.02	I	2.4	2
Mean		1916.35		−0.004		+0.36			
		1915.47							
Corr				−0.081		−0.29			

Radcliffe 1845, 3808 *pr.*

				h m s	° ′ ″			
1911								
July	31	Fn.	WII	17 55 36.26	+62 36 58.77	0	---	--
Aug.	6	R.	WII	36.25	58.79	0	6.5	1
	8	R.	EII	36.29	58.31	0	---	2
	10	R.	EII	36.27	58.74	0	7.0	1
	22	R.	EII	36.25	59.09	0	6.5	1
1915								
July	13	Fn.	WI	36.26	59.61	0	---	3
	17	An.	WI	36.16	59.71	0	7.0	2½
	22	Fn.	EI	36.26	60.32	0	7.5	2½
Aug.	10	An.	EI	36.30	59.49	0	7.5	2
Mean		1913.36		17 55 36.256	+62 36 59.20			
Corr				−0.081	−0.33			

Bradley 2257

				h m s	° ′ ″			
1911								
June 21	T.	EII	17 55	48.365	+4 22 23.50	0	6.5	--
22	Fn.	EII		48.376	22.87	0	5.1	--
27	Hd.	WII		48.399	23.19	0	5.5	--
28	T.	WII		48.376	23.08	0	5.5	--
1915								
June 19	Wy.	WI		48.366	23.35	0	5.0	2½
22	Wy.	EI		48.405	23.42	0	5.5	3
28	Wy.	EI		48.379	23.69	I	4.4	2½
July 2	Hd.	WI		48.359	23.27	0	---	3
Mean	1913.48		17 55	48.378	+4 22 23.30			
Corr				−0.081	−0.19			

Oeltzen 17707

				h m s	° ′ ″			
1912								
Aug. 12	Fn.	EII	17 56	3.812	+52 13 31.42	0	7.7	2½
28	Fn.	WII		3.895	31.50	0	---	2
30	Fn.	WII		3.882	31.79	0	7.5	2
1913								
June 30	Hd.	EII		3.796	31.21	0	---	2
July 1	Fn.	EII		3.864	31.16	0	8.0	2
7	Hd.	WII		3.832	30.98	0	7.5	2
11	Hd.	WII		3.879	31.06	0	---	3
14	Fn.	WII		3.974	31.94	0	7.3	2
1914								
June 2	Fn.	EI		3.826	31.17	0	7.0	2
5	Fn.	EI		3.864	30.47	0	7.0	2
30	Hd.	WI		3.842	31.41	0	7.0	3
July 8	Fn.	WI		3.886	31.36	0	7.0	2
Mean	1913.62		17 56	3.863	+52 13 31.29			
Corr				−0.081	−0.29			

67 Ophiuchi

				h m s	° ′ ″			
			17 56	8.271	+ 2 56 6.95			
1913								
May 28	R.	WII		+0.015	−0.25	I	3.9	2½
31	R.	WII		−0.022	+0.34	I	3.9	2
June 12	Hd.	EII		−0.020	+0.35	I	3.9	2
13	Fn.	EII		−0.065	−0.22	0	---	3½
1914								
May 19	Wy.	WI		+0.003	−0.93	0	---	3
20	Hd.	WI		−0.022	−0.03	I	---	3
22	Wy.	EI		−0.024	−0.25	I	3.9	2½
26	Wy.	EI		−0.012	−0.50	I	3.9	2½
June 29	Fn.	WI		−0.024	−0.12	0	---	3½
Mean	1913.97			−0.019	−0.18			
Corr				−0.081	−0.19			

Bradley 2253

				h m s	° ′ ″			
1911								
July 6	Fn.	EII	17 56	9.377	−17 9 15.17	0	6.5	3
9	R.	EII		9.389	15.89	0	5.5	4
10	Fn.	WII		9.392	15.70	0	6.3	2
15	R.	WII		9.422	14.40	0	7.0	2
1915								
July 6	Fn.	WI		9.406	15.08	0	6.5	3½
8	Hd.	WI		9.411	14.00	0	6.5	2½
11	Fn.	WI		9.405	15.43	0	7.0	3½
23	Hd.	EI		9.366	14.67	0	6.5	3
24	An.	EI		9.369	14.33	0	6.0	3
Mean	1913.75		17 56	9.393	−17 9 14.96			
Corr				−0.081	−0.10			

Groombridge 2500

				h m s	° ′ ″			
1911								
June 30	Hd.	WII	17 59	51.705	+44 13 58.65	0	7.0	--
July 1	R.	WII		51.646	59.71	0	6.5	--
3	Fn.	EII		51.660	58.88	0	7.3	--
5	R.	EII		51.699	58.77	0	7.5	1
1915								
May 19	Fn.	EI		51.673	58.12	0	7.0	2
31	Wy.	WI		51.652	58.33	0	6.5	2
June 4	An.	WI		51.611	58.13	0	7.0	2½
9	An.	EI		51.624	58.27	0	8.0	2½
Mean	1913.46		17 59	51.659	+44 13 58.61			
Corr				−0.081	−0.28			

γ Sagittarii

				h m s	° ′ ″			
			18 0	1.500	−30 25 34.02			
1911								
June 9	Hd.	WII		+0.084	+0.65	I	4.4	--
15	Fn.	EII		+0.117	−0.71	I	3.7	--
20	Hd.	EII		+0.088	+0.78	0	---	--
29	Fn.	WII		+0.097	+0.15	I	3.4	--
1915								
June 10	Fn.	EI		+0.121	−0.29	0	4.5	3½
12	An.	WI		+0.121	+0.16	0	---	3½
17	Fn.	WI		+0.055	−0.72	I	3.9	--
22	Wy.	EI		+0.127	+0.63	I	3.9	3
Mean	1913.46			+0.101	+0.08			
Corr				−0.081	+0.04			

70 Ophiuchi [1]

				h m s	° ′ ″			
			18 0	54.400	+2 31 7.19			
1911								
May 27	T.	EII		+0.021	+2.06	I	3.9	--
29	Fn.	WII		+0.014	+1.76	I	4.4	--
June 1	Fn.	WII		+0.012	+2.40	I	3.9	--
11	R.	EII		+0.068	+2.59	0	---	--
1915								
June 18	Hd.	WI		+0.037	+1.92	I	---	2
19	Wy.	WI		+0.027	+2.20	I	3.9	2½
28	Wy.	EI		+0.051	+2.71	I	3.9	2½
July 22	Fn.	EI		+0.037	+2.57	0	4.5	3
Mean	1913.46			+0.033	+2.28			
Corr				−0.081	−0.19			

Weisse$_2$ XVII 1913

				h m s	° ′ ″			
1912								
July 27	Fn.	WII	18 1	9.231	+39 28 31.54	0	7.6	2
Aug. 5	Fn.	EII		9.219	31.44	0	---	2
7	Fn.	EII		9.294	31.84	0	7.6	2
30	Fn.	WII		9.339	31.62	0	---	2
1914								
June 13	Wy.	EI		9.359	31.21	0	---	2
17	Wy.	EI		9.325	32.31	0	7.0	2½
29	Fn.	WI		9.288	32.18	0	7.5	3
30	Hd.	WI		9.322	31.66	0	7.0	3
Mean	1913.54		18 1	9.297	+39 28 31.72			
Corr				−0.081	−0.27			

δ Ursæ Minoris

				h m s	° ′ ″				
				18 1 17.88	+86 36 50.98				
1911				s	″	″			
Oct.	*5*	*Hd.*	*EII*	*−0.06*	*+0.34*	*+0.28*	*0*	---	--
	6	*Hd.*	*EII*	----	*+0.25*	*+0.14*	*0*	---	*3* *R.*
	6	*Hd.*	*EII*	*−0.12*	*+0.47*	*+0.36*	*0*	---	*3*
	12	*Fn.*	*WII*	*+0.09*	*−0.16*	*−0.16*	*0*	---	--
	13	*Fn.*	*WII*	*+0.55*	*−0.42*	*−0.46*	*0*	---	*2*
1912									
Mar.	*13*	*Hd.*	*EII*	*−0.40*	*+1.00*	*+1.05*	*0*	---	*2*
	18	*R.*	*EII*	*−0.18*	----	----	*0*	---	--
	19	*R.*	*EII*	*−0.47*	*−0.20*	*−0.20*	*0*	---	--
	25	*Hd.*	*WII*	----	*−0.35*	*−0.25*	*0*	---	*3* *R.*
	25	*Hd.*	*WII*	*−0.02*	*+0.30*	*+0.40*	*0*	---	*3*
	27	*Fn.*	*WII*	*+0.18*	*+0.23*	*+0.20*	*0*	---	*2½*
	29	*R.*	*WII*	*−0.15*	*−0.63*	*−0.79*	*0*	---	*5*

[1] Double; n. component observed.

				s	″	″					
1912											
Apr.	2	R.	WII	----		+0.91	0	---	--	R.	
	2	R.	WII	+0.14		+0.03	0	---	--		
	3	Fn.	WII	----		−0.33	0	---	3	R.	
	3	Fn.	WII	−0.13		−0.09	0	---	3		
	4	Hd.	EII	−0.32		+0.47	I	3.9	2½		
	5	R.	EII	----		+0.19	0	---	5	R.	
	5	R.	EII	+0.04		+0.53	0	---	5		
	7	Fn.	WII	−0.24		−0.21	0	---	3½		
Sept.	*30*	*Hd.*	*EII*	----	*+0.69*	*+0.66*	*0*	---	*2*	*R.*	
	30	*Hd.*	*EII*	*−0.10*	*+0.41*	*+0.38*	*0*	---	*2*		
Oct.	*1*	*Hd.*	*EII*	----	*+0.42*	*+0.39*	*0*	---	*2*	*R.*	
	1	*Hd.*	*EII*	*−0.40*	*+0.98*	*+0.95*	*0*	---	*2*		
	2	*Hd.*	*EII*	----	*−0.38*	*−0.41*	*0*	---	*2*	*R.*	
	2	*Hd.*	*EII*	*−0.18*	*+0.45*	*+0.42*	*0*	---	*2*		
	7	*Hd.*	*WII*	*−0.02*	*−0.04*	*−0.06*	*0*	---	*3*		
	9	*R.*	*WII*	*−0.41*	*+1.18*	*+1.12*	*0*	---	*2*		
	10	*Hd.*	*WII*	*−0.05*	*+0.34*	*+0.32*	*0*	---	*3*		
1913											
Mar.	*16*	*Fn.*	*WII*	*−0.47*	*+0.06*	*+0.03*	*0*	---	*3½*		
	17	*Hd.*	*WII*	*−0.14*	*+0.14*	*+0.11*	*0*	---	*3*		
	18	*R.*	*WII*	*−0.24*	*+0.23*	*+0.28*	*0*	---	*2½*		
	21	*R.*	*WII*	*+0.81*	*−0.39*	*−0.46*	*0*	---	*2½*		
	22	*R.*	*WII*	----	*−0.23*	*−0.18*	*0*	---	*2*	*R.*	
	22	*R.*	*WII*	*−0.69*	*+0.17*	*+0.22*	*0*	---	*2*		
	27	*Hd.*	*EII*	*−0.67*	*+0.61*	*+0.56*	*I*	---	*2½*		
	28	*Hd.*	*EII*	*+0.17*	*+0.43*	*+0.53*	*I*	---	*2½*		
	31	Hd.	EII	−0.31		+0.42	I	4.4	3½		
Apr.	1	R.	EII	----		−0.77	0	---	3½	R.	
	1	R.	EII	−0.19		+0.40	0	---	3½		
	2	Hd.	EII	+0.49		+0.11	0	---	4		
	7	Hd.	WII	+0.20		+0.07	I	3.9	2		
	8	R.	WII	−0.05		−0.78	0	---	3		
1914											
Mar.	*15*	*Hd.*	*WI*	*−0.86*	*−0.68*	*−0.71*	*0*	---	*3*		
	18	*Wy.*	*EI*	*−0.03*	*−0.12*	*−0.15*	*0*	---	*3½*		
	20	*Fn.*	*EI*	*+0.32*	*+1.19*	*+1.13*	*0*	---	*2½*		
	23	*Hd.*	*EI*	*+0.38*	*+0.85*	*+0.85*	*0*	---	*3*		
	24	*Fn.*	*EI*	*−0.66*	*+0.74*	*+0.79*	*0*	---	*3*		
	26	*Hd.*	*EI*	*+0.28*	*+0.77*	*+0.74*	*0*	---	*2*		
Apr.	1	Wy.	WI	−0.19		+1.05	0	---	3½		
	3	Fn.	WI	+0.21		+0.43	0	5.0	2½		
	5	Wy.	WI	−0.06		+0.94	0	4.8	2½		
	6	Hd.	WI	−0.44		+0.01	0	5.5	3		
Sept.	1	An.	WI	----		+1.19	0	---	2½		
	10	An.	EI	----		+0.80	I	---	2		
	15	An.	EI	----		+0.10	I	---	2½		
	19	*Wy.*	*EI*	*−0.33*	*+0.46*	*+0.48*	*0*	---	*3*		
	20	*Hd.*	*EI*	*+0.61*	*+0.81*	*+0.75*	*0*	---	*2½*		
	22	*An.*	*EI*	----	*+1.80*	*+1.77*	*0*	---	*3*		
	28	*Wy.*	*WI*	----	*+0.05*	*+0.07*	*0*	---	*3*		
	29	*An.*	*WI*	----	*+1.32*	*+1.23*	*0*	---	*3*		
	30	*Hd.*	*WI*	*−0.63*	*+0.13*	*+0.15*	*0*	---	*3*		
Oct.	*1*	*Wy.*	*WI*	*+0.33*	*+0.39*	*+0.39*	*0*	---	*3*		
	28	*Wy.*	*EI*	*−0.42*	*+0.45*	*+0.36*	*0*	---	*3½*		
1915											
Mar.	31	Wy.	EI	+0.37		+0.81	I	4.9	3		
Apr.	6	Hd.	EI	+0.06		−0.60	0	---	3½		
	7	Wy.	EI	−0.20		+0.64	I	4.4	3½		
	8	An.	EI	----		+1.00	I	4.4	3		
Sept.	23	Hd.	EI	----		−0.92	0	---	3	R.	
	23	Hd.	EI	−0.78		+0.64	0	---	3		
	24	Wy.	EI	----		+0.04	0	---	3½	R.	
	24	Wy.	EI	−0.08		+0.01	0	---	3½		
	28	*Fn.*	*EI*	----	*−0.13*	*−0.23*	*0*	---	*3*	*R.*	
	28	*Fn.*	*EI*	*+0.10*	*+0.30*	*+0.20*	*0*	---	*3*		
Oct.	*3*	*Wy.*	*WI*	----	*+0.87*	*+0.82*	*0*	---	*3*	*R.*	
	3	*Wy.*	*WI*	*−0.25*	*+0.67*	*+0.62*	*0*	---	*3*		
	4	*Wy.*	*WI*	----	*+1.07*	*+0.96*	*0*	---	*3½*	*R.*	
	4	*Wy.*	*WI*	*−0.34*	*+0.75*	*+0.64*	*0*	---	*3½*		
	6	*Fn.*	*WI*	----	*+0.88*	*+0.86*	*0*	---	*3*	*R.*	
	6	*Fn.*	*WI*	*−0.58*	*−0.11*	*−0.13*	*0*	---	*3*		
	8	*Hd.*	*WI*	----	*+1.16*	*+1.08*	*0*	---	*2*	*R.*	
	8	*Hd.*	*WI*	*−0.48*	*−0.23*	*−0.31*	*0*	---	*2*		
	21	*Hd.*	*WI*	----	*+1.64*	*+1.64*	*0*	---	*3*	*R.*	
	21	*Hd.*	*WI*	*+0.16*	*+0.82*	*+0.82*	*0*	---	*3*		
1916											
Feb.	*15*	*Wy.*	*WI*	*−0.02*	----	----	*0*	---	*3½*		
Mar.	*3*	*Wy.*	*WI*	*+0.37*	*+1.49*	*+1.48*	*0*	---	*3½*		

				s	″	″					
1916											
Mar.	*8*	*Hd.*	*WI*	*+0.60*	*+0.83*	*+0.76*	*0*	---	*3*		
	10	*Fn.*	*WI*	*−0.56*	*−0.01*	*−0.08*	*0*	---	*3*		
	11	*Wy.*	*WI*	*+0.04*	*+1.15*	*+1.05*	*0*	---	*2½*		
	16	*Hd.*	*WI*	*+0.01*	*+0.65*	*+0.50*	*0*	---	*3*		
Aug.	4	Fn.	WI	−0.80		−0.17	0	5.0	2½		
	18	Wy.	EI	−0.11		+0.92	0	5.0	2½		
Sept.	3	Fn.	WI	+0.07		−0.40	0	5.0	2½		
	7	Hd.	WI	−0.85		+0.23	0	---	3		
	11	Hd.	WI	−0.19		−0.16	I	4.4	2		
	19	*Hd.*	*EI*	*−0.12*	*+0.46*	*+0.37*	*0*	---	*2*		
	20	*Wy.*	*EI*	*−0.31*	*+0.51*	*+0.35*	*0*	---	*3*		
	22	*Hd.*	*EI*	*+0.24*	*+0.49*	*+0.49*	*0*	---	*2*		
	25	*Wy.*	*EI*	*−0.12*	*+0.33*	*+0.36*	*0*	---	*2½*		
	26	*Hd.*	*EI*	*+0.10*	*+0.34*	*+0.32*	*0*	---	*2½*		
	28	*Wy.*	*WI*	*+0.15*	*−0.09*	*−0.16*	*0*	---	*3½*		
1917											
Jan.	*10*	*Wy.*	*EI*	*−0.87*	*+0.62*	*+0.45*	*0*	---	*3½*		
Mar.	*5*	*Fn.*	*WI*	*+0.14*	*+0.27*	*+0.27*	*0*	---	*3*		
	8	*Fn.*	*WI*	*+0.02*	----	----	*0*	---	*3*		
	15	*Hd.*	*EI*	*−0.21*	*+0.29*	*+0.26*	*0*	---	*3*		
	18	*Fn.*	*EI*	*−0.21*	*+1.27*	*+1.20*	*0*	---	*2½*		
	19	*Hd.*	*EI*	*+0.01*	*+0.88*	*+0.61*	*0*	---	*3*		
	21	*Fn.*	*EI*	*+0.39*	*+0.42*	*+0.38*	*0*	---	*2*		
	22	*Hd.*	*EI*	*−0.23*	*+1.19*	*+1.07*	*0*	---	*3*		
	29	*Fn.*	*WI*	*−0.01*	*+0.90*	*+0.97*	*0*	---	*4*		
Aug.	21	Wy.	WII	+0.25		+0.17	0	5.0	2½		
	25	Wy.	EII	−0.36		−0.18	I	4.4	3		
Sept.	4	Fn.	EII	+0.17		+0.15	0	5.0	2½		
	11	Fn.	EII	+0.34		−0.16	0	5.0	2		
	13	Hd.	EII	−0.49		−0.31	I	4.9	2		
	17	*Hd.*	*EII*	*−0.27*	*−0.05*	*−0.16*	*I*	---	*2*		
1918											
Feb.	*3*	*Hd.*	*WII*	*+0.78*	*0.00*	*−0.18*	*0*	---	*3*		
	10	*Wy.*	*WII*	*+0.42*	*+0.42*	*+0.23*	*0*	---	*3*		
	13	*Wy.*	*WII*	*−0.51*	*+0.07*	*+0.07*	*0*	---	*3*		
	17	*Fn.*	*EII*	*−0.31*	*−0.30*	*−0.05*	*0*	---	*2½*		
	26	*Hd.*	*EII*	*−0.07*	*−0.07*	*−0.10*	*0*	---	*2*		
Mar.	*3*	*Fn.*	*EII*	*+0.34*	*+0.50*	*+0.40*	*0*	---	*2½*		
	7	*Wy.*	*EII*	*−0.74*	*+0.73*	*+0.74*	*0*	---	*3*		
	10	*Hd.*	*WII*	*+0.70*	*+0.13*	*+0.12*	*0*	---	*2*		
	17	*Wy.*	*WII*	*+0.58*	*+0.69*	*+0.94*	*0*	---	*3½*		
	18	*Hd.*	*WII*	*−0.08*	*+0.85*	*+0.66*	*0*	---	*3½*		
	27	*Fn.*	*WII*	*−0.71*	*−0.20*	*−0.16*	*0*	---	*3*		
Aug.	16	Hd.	WII	+0.30		+0.44	I	4.4	2		
Mean			1915.07		−0.10		+0.25				
			1915.04								
Corr					−0.08		−0.40				

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				s	″	″					
1911											
Oct.	5	Hd.	EII	----		−0.02	0	---	3	R.	
	5	Hd.	EII	+0.39		+0.03	0	---	3		
	12	Fn.	WII	----		[−1.85]	0	---	--	R.	
	12	Fn.	WII	+0.26		[−2.13]	0	---	--		
	13	Fn.	WII	----		−0.58	0	---	--	R.	
	13	Fn.	WII	+0.42		−0.75	0	---	--		
1912											
Mar.	*16*	*R.*	*EII*	----	*−0.34*	*−0.45*	*I*	---	--	*R.*	
	16	*R.*	*EII*	*−0.70*	*−0.65*	*−0.76*	*I*	---	--		
	17	*Hd.*	*EII*	----	*−0.80*	*−0.69*	*I*	---	*2*	*R.*	
	17	*Hd.*	*EII*	*−0.41*	*+0.04*	*+0.15*	*I*	---	*2*		
	22	*R.*	*EII*	*−0.01*	*−0.29*	*−0.26*	*0*	---	--		
	25	*Hd.*	*WII*	*−0.49*	*+0.08*	*+0.11*	*0*	---	*2*		
	26	*R.*	*WII*	*−0.03*	*−0.91*	*−0.74*	*0*	---	--		
	30	*Fn.*	*WII*	*−0.70*	*+0.04*	*+0.13*	*0*	---	*3½*		
	31	*R.*	*WII*	*−0.03*	*−1.06*	*−0.90*	*0*	---	--		
Apr.	*3*	*Fn.*	*WII*	*−0.58*	*−0.23*	*−0.15*	*0*	---	*3½*		
	4	*Hd.*	*EII*	*−0.38*	*+0.07*	*+0.15*	*0*	---	*2*		
	8	*Hd.*	*WII*	*−0.12*	----	----	*0*	---	*3½*		
Sept.	30	Hd.	EII	----		+0.39	0	---	4	R.	
	30	Hd.	EII	−0.04		−0.55	0	---	4		
Oct.	1	Hd.	EII	----		+0.31	0	---	3	R.	
	1	Hd.	EII	−0.20		−0.75	0	5.5	3		
	2	Hd.	EII			+0.06	I	---	3	R.	

				s	"	"					
1912											
Oct.	2	Hd.	EII	+0.35		−0.39	I	4.4	3		
	5	R.	EII	[+0.18][1]		+0.63	0	...	5		
	6	Hd.	WII	−0.31		−0.30	I	3.9	3		
	7	R.	WII	....		−0.38	I	...	1½	R.	
	7	R.	WII	+0.13		−0.58	I	3.9	1½		
	10	R.	WII	....		−0.06	I	...	2½	R.	
	10	R.	WII	−0.10		−0.60	I	4.9	2½		
1913											
Mar.	11	Fn.	EII	−0.65		−1.02	0	...	3		
	12	Hd.	EII	....		−1.39	0	...	...	R.	
	12	Hd.	EII	−0.89		+0.13	0	6.0	3		
	17	*Hd.*	*WII*	*+0.16*	*+0.04*	*+0.07*	*I*	...	*2*		
	18	*Fn.*	*WII*	*−0.61*	*0.00*	*+0.13*	*0*	...	*2½*		
	19	*Hd.*	*WII*	*−0.16*	*−0.49*	*−0.43*	*0*	...	*3½*		
	20	*Hd.*	*WII*	*−0.27*	*−0.60*	*−0.49*	*0*	...	*3*		
	21	*R.*	*WII*	*−0.17*	*−0.73*	*−0.57*	*0*	...	...		
	22	*R.*	*WII*	*+0.15*	*−0.01*	*+0.05*	*0*	...	*2*		
	28	*R.*	*EII*	*−0.01*	*−0.47*	*−0.41*	*0*	...	*2*		
	29	*R.*	*EII*	*+0.31*	*−0.47*	*−0.38*	*0*	...	*2*		
1914											
Mar.	14	Hd.	WI	−0.17		+0.17	0	...	4		
	17	*Fn.*	*EI*	*+0.27*	*+0.25*	*+0.34*	*0*	...	*2½*		
	20	*Wy.*	*EI*	*−0.18*	*−0.05*	*+0.11*	*0*	...	*3½*		
	22	*Wy.*	*EI*	*+1.13*	*−1.44*	*−1.26*	*0*	...	*3*		
	24	*Wy.*	*EI*	*+0.44*	*−0.27*	*−0.16*	*0*	...	*2½*		
Apr.	*3*	*Wy.*	*WI*	*−0.39*	*−0.21*	*−0.03*	*0*	...	*3*		
	5	*Wy.*	*WI*	*−0.12*	*−0.73*	*−0.55*	*0*	...	*3*		
	6	*Hd.*	*WI*	*−0.04*	*−0.25*	*−0.16*	*0*	...	*3*		
Sept.	*14*	*An.*	*EI*	....	*−0.74*	*−0.80*	*0*	...	*3½*		
	20	*Hd.*	*EI*	*−1.01*	*−0.69*	*−0.63*	*0*	...	*2½*		
	21	*Wy.*	*EI*	*−0.33*	*−0.65*	*−0.64*	*0*	...	*3*		
	22	*An.*	*EI*	....	*+0.16*	*+0.18*	*0*	...	*3½*		
	27	Wy.	WI	−0.34		−0.45	0	...	3½		
	28	An.	WI	....		−0.49	0	...	3½	R.	
	28	An.	WI	....		−0.25	I	...	3		
	29	Hd.	WI	−0.15		−0.36	0	5.5	3		
Oct.	28	Wy.	EI	....		−0.55	0	...	3½	R.	
	28	Wy.	EI	+0.56		−0.81	0	...	3½		
1915											
Feb.	10	Hd.	EI	....		−0.69	0	...	2½	R.	
	17	Fn.–Wy.	EI	....		−0.53	0	...	3	R.	
	18	Hd.–An.	EI	....		+0.19	I	4.4	3		
	19	Fn.–Wy.	EI	....		−1.27	0	5.0	2½		
	20	An.–Hd.	WI	....		−0.79	0	...	3	R.	
	21	An.–Hd.	WI	....		−0.46	I	5.4	3½		
	22	Wy.–Fn.	WI	....		−0.53	0	...	3	R.	
Mar.	1	Wy.–Fn.	WI	....		−0.19	I	4.9	3½		
	2	Wy.–Fn.	WI	....		+0.09	0	...	3½	R.	
	31	*Wy.*	*EI*	*+1.08*	*−0.42*	*−0.27*	*0*	...	*3½*		
Apr.	*1*	*An.*	*EI*	....	*−0.16*	*−0.08*	*0*	...	*3*		
	4	*Wy.*	*EI*	*+0.62*	*−0.33*	*−0.30*	*0*	...	*3½*		
	6	*Hd.*	*EI*	*−0.79*	*−0.61*	*−0.69*	*0*	...	*3*		
	7	*Wy.*	*EI*	*−0.61*	....	....	*0*	...	*3½*		
Sept.	*22*	*Wy.*	*EI*	....	*+0.32*	*+0.34*	*0*	...	*3½*	*R.*	
	22	*Wy.*	*EI*	*+0.32*	*−1.03*	*−1.01*	*0*	...	*3½*		
	24	*Hd.*	*EI*	....	*+0.04*	*+0.03*	*0*	...	*2*	*R.*	
	24	*Hd.*	*EI*	*−0.04*	*−0.89*	*−0.90*	*0*	...	*2*		
	28	Hd.	EI	....		+0.36	0	...	3	R.	
	28	Hd.	EI	+0.07		+0.07	I	4.4	3		
	29	Fn.	EI	+0.29		−0.93	0	5.0	3		
Oct.	3	Wy.	WI	....		−1.02	0	...	3	R.	
	3	Wy.	WI	+0.19		+0.15	I	4.4	3		
	8	Wy.	WI	−0.73		−0.18	0	5.0	4		
	9	Hd.	WI	....		−0.42	0	...	3½	R.	
	9	Hd.	WI	−0.28		−0.68	I	4.4	3		
	11	Hd.	WI	....		−1.02	0	...	3	R.	
	11	Hd.	WI	−0.70		−0.41	I	4.4	3		
	12	Fn.	WI	....		−0.14	0	...	3	R.	
	12	Fn.	WI	+0.33		+0.23	0	4.5	3		
1916											
Feb.	29	Wy.	WI	−0.30		....	0	...	3		
Mar.	4	Fn.	WI	+0.42		−0.30	0	5.0	3		
	7	Wy.	WI	−0.21		−0.92	0	...	4		
	8	Hd.	WI	+0.04		....	0	...	3		
	9	Hd.	WI	−0.16		−1.22	0	5.5	3		
	11	Wy.	WI	−0.61		−1.80	0	...	2½		
	16	Hd.	WI	+0.08		−0.72	0	...	3		

				s	"	"					
1916											
Aug.	*17*	*Wy.*	*EI*	*−0.38*	*−0.10*	*−0.16*	*0*	...	*3½*		
Sept.	*2*	*Fn.*	*WI*	*+0.20*	....	....	*0*	...	*3*		
	7	*Wy.*	*WI*	*−0.32*	*+0.01*	*−0.01*	*0*	...	*3½*		
	10	*Hd.*	*EI*	*−0.49*	*+0.09*	*−0.10*	*0*	...	*3½*		
	18	*Hd.*	*EI*	*+0.20*	*+0.32*	*+0.48*	*0*	...	*3½*		
	19	*Wy.*	*EI*	*−0.49*	*+0.04*	*+0.07*	*0*	...	*3½*		
	21	*Hd.*	*EI*	*+0.55*	*+0.03*	*+0.20*	*0*	...	*3*		
	24	*Wy.*	*EI*	*−0.22*	*+0.01*	*−0.02*	*0*	...	*3*		
	25	*Hd.*	*EI*	*−0.42*	*−0.23*	*−0.26*	*0*	...	*3*		
1917											
Jan.	11	Wy.	EI	+0.58		+0.28	0	5.5	3		
Feb.	26	Fn.	WI	....		−1.43	0	...	3½		
Mar.	6	Fn.	WI	−0.09		−0.78	0	5.0	2½		
	8	Wy.	WI	−0.84		−0.67	0	5.0	3½		
	9	Fn.	WI	−0.03		−1.64	0	5.0	2½		
	12	Hd.	EI	+0.01		−0.03	0	6.0	3		
	15	Wy.	EI	−0.18		−0.64	0	...	3		
	19	*Fn.*	*EI*	*+0.07*	*−0.52*	*−0.58*	*0*	...	*2½*		
	20	*Hd.*	*EI*	*+0.15*	*−0.94*	*−1.09*	*0*	...	*3*		
	22	*Fn.*	*EI*	*−0.42*	*−0.40*	*−0.40*	*0*	...	*3*		
	29	*Wy.*	*WI*	*+0.51*	*+0.60*	*+0.69*	*0*	...	*3½*		
Aug.	*17*	*Wy.*	*WII*	*−1.18*	*+1.08*	*+1.13*	*0*	...	*3½*		
	24	*Wy.*	*EII*	*−0.62*	*+0.36*	*+0.28*	*0*	...	*3½*		
Sept.	*10*	*Fn.*	*EII*	*−0.75*	*−0.34*	*−0.36*	*0*	...	*3½*		
	12	*Hd.*	*EII*	*+0.31*	*−0.64*	*−0.62*	*0*	...	*3*		
	16	*Hd.*	*EII*	*+0.52*	*+0.19*	*+0.28*	*0*	...	*3*		
1918											
Jan.	29	Wy.	WII	−0.41		+0.20	0	5.0	3½		
Feb.	11	Wy.	WII	−0.48		−0.52	0	5.0	3½		
	12	Fn.	WII	+0.31		−1.25	0	...	4		
	15	Fn.	WII	−0.46		−0.78	0	5.0	3		
	18	Fn.	EII	−0.39		[−2.39]	0	5.0	3		
	21	Fn.	EII	+0.32		−0.94	0	5.0	2½		
	28	Wy.	EII	−0.32		−0.32	0	5.5	4		
Mar.	1	Hd.	EII	−0.10		+0.47	0	...	3½		
	5	Hd.	EII	−0.54		−0.03	0	5.5	3½		
	7	Fn.	EII	+0.37		−1.30	0	4.5	3		
	8	Wy.	EII	−0.04		−0.96	0	...	2½		
	11	Hd.	WII	−0.47		−0.15	0	...	3½		
	15	Fn.	WII	+0.18		−0.53	0	4.5	2½		
	18	*Wy.*	*WII*	*−0.33*	*+0.49*	*+0.69*	*0*	...	*3½*		
	23	*Fn.*	*WII*	*+0.47*	*+0.40*	*+0.40*	*0*	...	*3*		
	25	*Fn.*	*WII*	*+0.47*	*−1.65*	*−1.60*	*0*	...	*3*		
	26	*Wy.*	*WII*	*−0.17*	*+2.06*	*+2.18*	*0*	...	*3½*		
	28	*Fn.*	*WII*	*+0.57*	*+0.51*	*+0.56*	*0*	...	*3*		
Aug.	*15*	*Hd.*	*WII*	*−1.52*	*+0.37*	*+0.39*	*0*	...	...		
Mean			1915.82		−0.10		−0.50				
			1915.43								
Corr					−0.08		+0.43				

Piazzi XVII 356

				h	m	s	°	′	″			
1913												
Apr.	20	R.	WII	18	1	47.528	−21	27	13.49	0	7.0	2½
	30	R.	EII			47.439			13.69	0	7.0	3
May	3	R.	EII			47.522			12.98	0	7.5	3½
	24	R.	WII			47.495			13.85	0	7.0	3½
1914												
May	18	Fn.	WI			47.433			13.55	0	7.0	3
	19	Wy.	WI			47.499			13.75	0	...	3½
	22	Wy.	EI			47.506			13.62	0	6.5	3
	26	Wy.	EI			47.490			13.44	0	7.5	3
Mean			1913.86	18	1	47.489	−21	27	13.55			
Corr						−0.081			−0.07			

Piazzi XVII 359

				h	m	s	°	′	″			
1913												
May	28	R.	WII	18	2	23.011	−28	28	4.18	0	5.0	4
	31	R.	WII			22.927			4.41	0	5.5	4
June	12	Hd.	EII			23.001			4.20	0	6.0	3½
	18	R.	EII			22.994			3.86	0	6.0	3

[1] Observed by making settings with the micrometer.

			h	m	s	°	′	″			
1914											
July 11	Hd.	WI			22.976			4.05	0	---	3
15	Hd.	WI			23.014			4.39	0	---	3
18	Hd.	EI			23.050			4.74	0	5.8	3
19	Hd.	EI			23.053			3.79	I	4.9	3
Mean	1913.99		18	2	23.003	−28	28	4.20			
Corr					−0.081			0.00			

72 Ophiuchi

			h	m	s	°	′	″			
			18	3	4.927	+ 9	33	2.17			
1913											
June 4	R.	WII			+0.089			−0.54	I	3.9	2½
5	Hd.	WII			+0.035			−0.09	I	3.4	3
13	Fn.	EII			+0.051			−0.26	I	4.4	3
19	Hd.	EII			+0.044			−0.31	I	---	3
1914											
May 20	Hd.	WI			+0.043			−0.20	I	---	3
21	Fn.	WI			+0.044			+0.20	I	4.4	3½
June 2	Fn.	EI			+0.025			+0.15	I	3.9	2½
6	Wy.	EI			+0.070			----	I	3.9	2
11	Fn.	EI			+0.047			−0.32	0	---	2½
23	Hd.	WI			+0.032			−0.23	I	4.4	2
Mean	1914.03				+0.048			−0.18			
	1913.99										
Corr					−0.081			−0.21			

Weisse$_2$ XVII 1951

			h	m	s	°	′	″			
1911											
June 21	T.	EII	18	3	18.901	+15	54	30.44	0	7.5	--
27	Hd.	WII			18.911			30.43	0	7.5	--
28	T.	WII			18.871			31.04	0	7.0	--
July 6	Fn.	EII			18.901			30.24	0	6.9	2
1915											
July 6	Fn.	WI			18.957			30.06	0	7.0	3
8	Hd.	WI			18.895			29.67	0	7.0	2
23	Hd.	EI			18.887			29.54	0	7.0	2½
24	An.	EI			18.876			29.96	0	6.0	3
Mean	1913.51		18	3	18.900	+15	54	30.17			
Corr					−0.081			−0.22			

Weisse$_1$ XVII 1302

			h	m	s	°	′	″			
1912											
July 27	Fn.	WII	18	3	56.400	− 2	55	16.57	0	7.0	2
Aug. 5	Fn.	EII			56.356			16.66	0	7.3	2
12	Fn.	EII			56.402			16.74	0	6.8	2½
23	Fn.	WII			56.380			17.39	0	---	3
1914											
July 21	Hd.	EI			56.444			16.98	0	6.5	3
28	Hd.	EI			56.432			16.45	0	6.5	2½
Aug. 14	Wy.	WI			56.417			17.21	0	6.5	3
15	Fn.	WI			56.425			16.84	0	7.0	3
Mean	1913.60		18	3	56.407	− 2	55	16.86			
Corr					−0.081			−0.17			

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			h	m	s	°	′	″			
			18	4	1.882	+28	44	58.39			
1913											
July 4	Hd.	EII			+0.019			+0.13	I	---	2
5	Fn.	EII			−0.026			−0.47	0	---	3
10	Fn.	WII			+0.024			+0.57	I	2.9	2
11	Hd.	WII			+0.030			+0.47	I	---	2
1914											
July 17	Hd.	WI			+0.014			+0.44	I	3.4	2
20	Fn.	EI			−0.011			−0.02	I	3.9	2
22	Fn.	EI			+0.017			+0.68	I	---	2
Aug. 13	Hd.	WI			+0.027			+0.19	I	---	2
1915											
July 2	Hd.	WI			+0.042			----	I	4.4	3
12	Hd.	WI			+0.034			----	I	4.9	2½
20	Hd.	EI			+0.038			----	I	---	3
Aug. 7	An.	EI			+0.066			----	I	4.9	2
9	Fn.	EI			+0.038			----	I	4.4	3
15	Wy.	EI			+0.049			----	I	4.4	2½
1916											
Aug. 6	Hd.	EI			+0.019			----	0	---	2
7	Wy.	EI			+0.009			----	I	3.9	2
14	Wy.	EI			−0.003			----	I	3.9	2½
17	Fn.	EI			+0.012			----	0	4.5	2
Sept. 7	Hd.	WI			+0.067			----	I	3.9	3
1917											
Aug. 3	Fn.	WII			+0.067			----	I	3.9	2
13	Fn.	WII			+0.015			----	0	---	2½
17	Wy.	WII			+0.028			----	I	3.9	2
20	Fn.	WII			−0.009			----	0	---	1½
25	Wy.	EII			+0.008			----	I	4.4	2½
Sept. 3	Hd.	EII			+0.015			----	I	4.4	2
1918											
July 22	Wy.	EII			+0.015			----	I	3.9	2
Aug. 1	Fn.	WII			+0.035			----	0	---	2
5	Wy.	WII			+0.031			----	I	3.9	2
Mean	1916.09				+0.024			+0.25			
	1914.04										
Corr					−0.081			−0.25			

Bradley 2279 [1]

			h	m	s	°	′	″			
1913											
June 6	Fn.	WII	18	4	11.807	+26	5	0.60	0	5.7	2
9	Hd.	WII			11.820			0.09	0	6.0	3
26	Hd.	EII			11.816			0.38	0	6.0	2
30	Hd.	EII			11.792			0.10	0	6.0	2
1914											
June 15	Fn.	EI			11.804			0.12	0	5.5	2
16	Hd.	EI			11.798			0.45	0	6.0	2½
July 8	Fn.	WI			11.834			0.31	0	6.0	2
10	Fn.	WI			11.814			0.31	0	---	2
Mean	1913.98		18	4	11.811	+26	5	0.30			
Corr					−0.081			−0.24			

Radcliffe 1890, 4744

			h	m	s	°	′	″			
1913											
July 1	Fn.	EII	18	4	36.863	−13	56	60.52	0	7.3	3
3	R.	EII			36.815			60.29	0	7.0	2
7	Hd.	WII			36.860			60.19	0	6.0	3
8	Fn.	WII			36.843			58.39	0	7.0	3
1914											
June 17	Wy.	EI			36.852			59.81	0	6.5	3
July 9	Hd.	WI			36.824			60.27	0	7.0	2
15	Hd.	WI			36.827			60.52	0	---	3
18	Hd.	EI			36.846			60.80	0	6.5	3
Mean	1914.01		18	4	36.841	−13	57	0.10			
Corr					−0.081			−0.12			

Groombridge 2518

			h	m	s	°	′	″			
1911											
July 1	R.	WII	18	4	51.446	+49	41	49.38	0	6.5	--
10	Fn.	WII			51.457			49.18	0	6.7	--
19	R.	EII			51.432			47.36	0	6.0	1½
22	R.	EII			51.484			49.30	0	6.0	2½
1915											
May 31	Wy.	WI			51.430			49.32	0	6.5	2½
June 4	An.	WI			51.421			48.76	0	7.0	2
9	An.	EI			51.516			48.56	0	7.0	3
10	Fn.	EI			51.507			48.72	0	6.5	2½
Mean	1913.48		18	4	51.462	+49	41	48.82			
Corr					−0.081			−0.29			

[1] Double; s. pr. component observed.

Weisse, XVIII 29

				h	m	s	°	′	″			
1911												
June 8	Fn.	WII		18	5	19.787	+6	11	21.69	0	7.6	--
9	Hd.	WII				19.787			21.93	0	7.0	--
15	Fn.	EII				19.787			21.35	0	7.7	--
20	Hd.	EII				19.807			21.64	0	---	--
1915												
June 18	Hd.	WI				19.780			21.15	0	---	2
19	Wy.	WI				19.816			21.10	0	7.0	3
22	Wy.	EI				19.784			21.91	0	7.5	3
28	Wy.	EI				19.797			22.12	0	7.0	2½
Mean		1913.46		18	5	19.793	+6	11	21.61			
Corr						−0.081			−0.19			

Bradley 2321

				h	m	s	°	′	″			
1911												
June 29	Fn.	WII		18	6	52.48	+79	59	36.77	0	---	--
30	Hd.	WII				52.90			36.28	0	5.8	--
July 3	Fn.	EII				53.10			36.82	0	---	--
5	R.	EII				52.72			36.80	0	5.5	2
1915												
June 12	An.	WI				53.11			37.10	0	7.0	3
17	Fn.	WI				53.07			36.91	0	6.0	2½
29	Hd.	EI				53.15			37.66	0	---	2
July 22	Fn.	EI				53.11			37.19	0	6.0	2½
Mean		1913.50		18	6	52.955	+79	59	36.94			
Corr						−0.081			−0.37			

Bradley 2321 S. P.

				h	m	s	°	′	″			
1911												
Dec. 7	Hd.	WII		18	6	52.89	+79	59	35.49	0	---	--
27	R.	EII				52.66			35.86	0	---	4
1912												
Jan. 10	Hd.	EII				53.19			34.72	0	6.5	--
19	Fn.	WII				52.86			34.34	0	---	--
1915												
Nov. 7	Hd.	EI				53.21			36.12	0	6.0	3
9	Wy.	WI				52.98			35.84	0	6.0	3
15	Wy.	WI				53.07			36.31	0	6.5	3½
22	Hd.	EI				53.32			35.65	0	6.0	2½
Mean		1913.93		18	6	53.022	+79	59	35.54			
Corr						−0.081			+0.48			

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				h	m	s	°	′	″				
				18	8	22.833	−21	4	59.09				
1911													
May 27	T.	EII				+0.043			−0.40	I	3.9	--	
29	Fn.	WII				+0.053			+0.42	0	4.3	--	
June 1	Fn.	WII				+0.075			−0.32	I	3.7	--	
11	R.	EII				−0.033			−0.74	0	---	--	
1912													
June 10	Hd.–Fn.	EII				-----			−1.30	I	---	--	R.
10	Hd.–Fn.	EII				-----			−0.57	I	---	--	
11	Hd.–Fn.	EII				-----			−0.93	0	---	3	R.
11	Hd.–Fn.	EII				-----			−0.26	I	---	3	
20	Fn.–Hd.	EII				-----			−0.08	0	---	2	R.
20	Fn.–Hd.	EII				-----			−1.23	I	---	2	
July 2	Fn.–Hd.	EII				-----			+0.03	0	---	2	R.
2	Fn.–Hd.	EII				-----			−0.76	I	---	2	
3	Hd.–Fn.	WII				-----			−0.84	0	---	2	R.
3	Hd.–Fn.	WII				-----			+0.31	I	---	2	
5	Hd.–Fn.	WII				-----			−0.41	I	---	3	R.
5	Hd.–Fn.	WII				-----			+0.67	I	---	3	
6	Fn.–Hd.	WII				-----			−0.49	I	---	2	R.
6	Fn.–Hd.	WII				-----			−0.03	I	---	2	
8	Fn.–Hd.	WII				-----			−0.35	0	---	2	R.
8	Fn.–Hd.	WII				-----			−0.52	0	---	2	
1915													
July 2	Hd.	WI				+0.054			−0.52	I	4.9	3	
6	Fn.	WI				+0.021			−0.84	0	5.0	3	
1915						s			″				
July 23	Hd.	EI				+0.038			−0.06	I	4.7	3	
24	An.	EI				+0.088			+0.51	I	4.9	3	
Mean		1913.48				+0.042			−0.27				
		1912.98											
Corr						−0.081			−0.07				

B. D.+38° 3113

				h	m	s	°	′	″			
1916												
July 20	Hd.	EI		18	10	-----	+38	44	52.59	0	6.0	2
Aug. 4	Fn.	WI				-----			52.59	0	6.5	2
7	Wy.	EI				-----			52.65	0	6.5	2
24	Wy.	WI				-----			52.99	0	7.0	2½
Mean		1916.60		18	10	-----	+38	44	52.70			
Corr						-----			−0.27			

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				h	m	s	°	′	″			
				18	11	-----	−36	47	22.38			
1916												
July 18	Wy.	EI				-----			−1.3	I	---	3½
Aug. 8	Fn.	EI				-----			−1.3	0	---	3½
17	Fn.	EI				-----			−1.4	0	---	3½
22	Fn.	EI				-----			−1.0	0	---	4
25	Fn.	WI				-----			−1.7	0	---	4
28	Wy.	WI				-----			−0.3	0	---	4½
Sept. 1	Fn.	WI				-----			−1.0	0	---	4
5	Wy.	WI				-----			−0.9	0	---	4
19	Hd.	EI				-----			−1.6	I	---	3
20	Wy.	EI				-----			−0.9	I	---	4
25	Wy.	EI				-----			−0.4	0	---	3½
26	Hd.	EI				-----			−1.8	0	---	3
1917												
July 30	Wy.	EII				-----			−3.6	0	---	4
31	Fn.	EII				-----			−1.0	0	---	3½
Aug. 10	Wy.	WII				-----			−1.4	I	---	4
20	Fn.	WII				-----			−1.3	0	---	3½
25	Wy.	EII				-----			+0.7	0	---	5
Sept. 4	Fn.	EII				-----			−0.1	0	---	3½
11	Fn.	EII				-----			−0.9	0	---	3½
13	Hd.	EII				-----			−1.2	I	---	3½
17	Hd.	EII				-----			−0.9	I	---	3½
1918												
July 15	Wy.	EII				-----			−0.1	I	---	3½
Aug. 15	Fn.	WII				-----			−1.6	I	---	3½
Mean		1917.22				-----			−1.09			
Corr						-----			+0.18			

B. D.−17° 5112

				h	m	s	°	′	″			
1911												
June 8	Fn.	WII		18	11	57.406	−17	24	19.42	0	6.2	--
9	Hd.	WII				57.429			19.55	0	6.5	--
15	Fn.	EII				57.443			20.72	0	6.3	--
20	Hd.	EII				57.444			19.97	0	---	--
1915												
May 9	Wy.	EI				57.422			20.50	0	6.0	3½
19	Fn.	EI				57.454			19.12	0	6.0	3
31	Wy.	WI				57.450			19.25	0	6.5	3
June 12	An.	WI				57.466			20.03	0	7.0	3
Mean		1913.42		18	11	57.439	−17	24	19.82			
Corr						−0.081			−0.10			

Bradley 2292

				h	m	s	°	′	″			
1912												
Aug. 12	Fn.	EII		18	12	26.803	−9	47	23.51	0	6.6	2½
23	Fn.	WII				26.795			23.32	0	---	--
28	Fn.	WII				26.844			23.70	0	6.8	4
30	Fn.	WII				26.864			24.11	0	---	2
Sept. 5	Fn.	EII				26.762			24.56	0	6.5	2

1914			h m s	° ′ ″			
June 2	Fn.	EI	26.876	23.59	0	7.0	3½
6	Wy.	EI	26.867	23.58	0	6.7	2½
11	Fn.	EI	26.866	24.01	0	7.0	3
July 9	Hd.	WI	26.847	23.68	0	6.5	2
15	Hd.	WI	26.849	23.76	0	7.5	3½
16	Fn.	WI	26.841	23.61	0	6.5	3
Mean	1913.65		18 12 26.838	−9 47 23.77			
Corr			−0.081	−0.14			

B. D.+30° 3162

1913			h m s	° ′ ″			
May 24	R.	WII	18 12 26.908	+30 22 7.02	0	7.0	2
28	R.	WII	26.920	7.13	0	7.0	2½
June 12	Hd.	EII	26.900	7.27	0	7.0	2
13	Fn.	EII	26.870	6.69	0	7.0	3
1914							
June 15	Fn.	EI	26.860	6.82	0	7.0	2
16	Hd.	EI	26.850	7.36	0	7.0	3
30	Hd.	WI	26.868	6.84	0	7.0	2
July 8	Fn.	WI	26.886	6.35	0	7.0	1½
Mean	1913.96		18 12 26.883	+30 22 6.94			
Corr			−0.081	−0.25			

Groombridge 2533

			h m s	° ′ ″			
			18 12 50.790	+42 7 41.60			
1913							
May 31	R.	WII	−0.013	−0.54	0	5.5	2½
June 4	R.	WII	+0.003	−0.55	0	6.0	2
17	Fn.	EII	+0.046	−0.22	0	5.3	3
18	R.	EII	+0.013	−0.53	0	5.5	1½
1914							
May 21	Fn.	WI	+0.052	+0.49	0	5.5	2½
22	Wy.	EI	+0.052	+1.13	I	---	2½
25	Fn.	EI	+0.028	−0.19	0	5.5	2½
July 3	Hd.	WI	+0.043	+0.08	0	6.0	2
1915							
July 2	Hd.	WI	+0.044	----	0	6.0	2
9	Fn.	WI	+0.008	----	0	5.5	2½
12	Hd.	WI	+0.024	----	0	6.5	2½
16	Fn.	WI	+0.008	----	0	6.0	2½
Aug. 7	An.	EI	0.000	----	0	6.0	2
9	Fn.	EI	+0.011	----	0	6.0	2½
15	Wy.	EI	0.000	----	0	6.5	2
1916							
Aug. 7	Wy.	EI	+0.010	----	0	5.5	2
14	Wy.	EI	+0.004	----	I	---	2½
18	Wy.	EI	+0.005	----	0	---	2
1917							
Aug. 13	Fn.	WII	+0.028	----	0	6.0	2
Sept. 3	Hd.	EII	+0.017	----	0	6.0	2
1918							
July 22	Wy.	EII	+0.023	----	0	5.5	2½
Aug. 1	Fn.	WII	+0.045	----	0	6.0	2
5	Wy.	WII	+0.041	----	0	6.5	2½
Mean	1915.70 1913.93		+0.021	−0.04			
Corr			−0.081	−0.27			

36 Draconis

			h m s	° ′ ″			
			18 13 22.918	+64 22 0.02			
1911							
June 30	Hd.	WII	+0.01	+0.07	0	6.0	--
July 1	R.	WII	−0.13	+1.09	0	5.0	--
5	R.	EII	−0.08	+0.03	0	5.0	1
6	Fn.	EII	+0.06	+0.58	0	5.5	2

1915			s	″			
June 9	An.	EI	+0.03	+0.27	I	4.9	3
10	Fn.	EI	+0.08	+0.02	0	---	2
17	Fn.	WI	+0.02	+0.28	0	5.5	2½
18	Hd.	WI	+0.01	+0.22	0	---	2
Mean	1913.48		0.000	+0.32			
Corr			−0.081	−0.33			

Weisse$_1$ XVIII 253

1911			h m s	° ′ ″			
July 24	Fn.	EII	18 13 55.756	+13 44 31.46	0	---	--
25	Hd.	EII	55.686	31.93	0	5.8	3
27	Fn.	WII	55.716	32.93	0	---	--
28	Hd.	WII	55.733	32.49	0	6.0	2
1915							
July 9	Fn.	WI	55.753	31.62	0	6.0	2½
11	Fn.	WI	55.706	31.87	0	6.5	3
22	Fn.	EI	55.759	32.26	0	6.0	2½
23	Hd.	EI	55.711	32.12	0	6.5	2
Mean	1913.55		18 13 55.728	+13 44 32.08			
Corr			−0.081	−0.22			

δ Sagittarii

			h m s	° ′ ″			
			18 15 13.948	−29 52 1.68			
1913							
June 9	Hd.	WII	−0.022	−0.34	I	2.9	3½
10	R.	WII	+0.073	−0.86	I	2.9	3
12	Hd.	EII	+0.061	+0.03	I	3.9	3
18	R.	EII	+0.088	+0.34	I	3.4	3
1914							
June 13	Wy.	EI	+0.072	+0.24	I	3.4	2½
16	Hd.	EI	+0.053	+0.31	0	---	4
23	Hd.	WI	−0.004	+0.20	I	4.4	3½
30	Hd.	WI	+0.053	+0.03	I	2.9	3½
Mean	1913.96		+0.047	−0.01			
Corr			−0.081	+0.03			

Bradley 2300

1911			h m s	° ′ ″			
Aug. 1	Hd.	WII	18 15 28.470	+24 24 29.05	0	5.5	2
6	R.	WII	28.466	28.28	I	4.4	1
9	Fn.	EII	28.471	29.09	0	---	2½
10	R.	EII	28.472	28.90	I	4.4	1½
1915							
June 25	Wy.	EI	28.509	28.94	0	---	3
28	Wy.	EI	28.494	28.77	I	4.9	2
July 2	Hd.	WI	28.455	28.64	0	6.0	2
8	Hd.	WI	28.473	29.00	I	4.9	2
Mean	1913.55		18 15 28.476	+24 24 28.83			
Corr			−0.081	−0.24			

Bradley 2299

1913			h m s	° ′ ″			
June 5	Hd.	WII	18 16 22.522	+ 3 20 10.77	I	3.9	3
6	Fn.	WII	22.507	10.26	0	5.3	2½
13	Fn.	EII	22.512	10.59	0	5.0	3
17	Fn.	EII	22.513	9.71	0	5.3	3
1914							
May 26	Wy.	EI	22.510	10.56	I	4.4	2½
June 2	Fn.	EI	22.505	11.04	0	5.5	3
July 8	Fn.	WI	22.498	10.20	0	---	2
9	Hd.	WI	22.500	10.43	0	5.5	2
Mean	1913.95		18 16 22.508	+ 3 20 10.44			
Corr			−0.081	−0.19			

η Serpentis

			h m s	° ′ ″					
			18 16 38.967	− 2 55 24.95					
1911			s	″	″				
June	18	R.	EII	+0.039		−0.61	I	---	--
July	18	Hd.	EII	+0.093		----	I	4.4	--
Aug.	15	R.	EII	+0.073		----	I	---	4
	16	Fn.	EII	+0.082		----	I	3.2	--
	17	R.	EII	+0.069		----	I	2.9	2½
	18	Fn.	EII	+0.107		----	I	---	2½
	21	Fn.	EII	+0.095		−0.63	I	3.1	2
	22	R.	EII	+0.050		−0.55	I	3.4	1½
Sept.	1	Fn.	WII	+0.087		----	I	3.6	--
	2	R.	WII	+0.078		----	I	2.4	3
1912									
Feb.	*16*	*R.*	*EII*	*+0.041*	----	----	*0*	---	--
Mar.	*1*	*R.*	*WII*	*+0.070*	----	----	*0*	---	--
	10	*Hd.*	*EII*	-----	*−0.30*	*−0.30*	*0*	---	--
	13	*Hd.*	*EII*	-----	*+0.06*	*+0.02*	*0*	---	--
July	27	Fn.	WII	+0.126		−0.24	I	3.3	3
Aug.	5	Fn.	EII	+0.039		−0.31	0	---	3
	7	Fn.	EII	+0.051		−0.91	I	3.4	2
	23	Fn.	WII	+0.077		−0.16	0	---	2½
1913									
Feb.	*12*	*R.*	*WII*	*+0.090*	*−0.09*	*−0.01*	*0*	---	*3*
	14	*Hd.*	*WII*	*+0.063*	----	----	*0*	---	*3*
	17	*Hd.*	*EII*	*+0.097*	*−0.47*	*−0.39*	*0*	---	*3*
	24	*Hd.*	*EII*	*+0.120*	----	----	*0*	---	*3½*
May	28	R.	WII	+0.083		----	I	2.9	3
June	21	R.	EII	+0.095		----	I	3.4	2½
	24	Fn.	EII	+0.069		----	0	---	2
July	1	Fn.	EII	+0.079		----	I	3.4	2
	3	R.	EII	+0.068		----	I	3.4	2
	4	Hd.	EII	+0.078		----	0	---	2
	5	Fn.	EII	+0.043		----	I	---	3½
	11	Hd.	WII	+0.091		----	0	---	2
	12	Fn.	WII	+0.067		----	I	2.9	2½
	14	Fn.	WII	+0.104		----	I	3.2	2
1914									
Apr.	*1*	*Wy.*	*WI*	*+0.035*	----	----	*I*	---	*3*
May	22	Wy.	EI	+0.077		----	I	2.9	3
June	6	Wy.	EI	+0.098		−0.37	I	3.4	2
	17	Wy.	EI	+0.056		−0.13	I	3.4	2½
	27	Wy.	WI	+0.080		[−2.32]	0	---	3
July	11	Hd.	WI	+0.064		----	I	---	2
	15	Hd.	WI	+0.083		−0.72	I	3.9	2
	17	Hd.	WI	+0.097		−0.26	I	3.4	2
	19	Hd.	EI	+0.059		−0.46	I	2.9	2
	20	Fn.	EI	+0.120		----	I	3.4	2½
	21	Hd.	EI	+0.071		----	I	2.9	3
	22	Fn.	EI	+0.092		----	I	---	2
	28	Hd.	EI	+0.078		----	I	3.1	2
	31	Fn.	EI	+0.108		----	I	3.4	2½
Aug.	3	Fn.	EI	+0.097		----	I	3.4	2
	4	Wy.	EI	+0.077		----	I	3.9	3
	6	Fn.	EI	+0.100		----	I	3.9	2
	7	Hd.	EI	+0.073		----	I	3.4	2
	8	Wy.	EI	+0.069		----	I	3.4	2½
	13	Hd.	WI	+0.090		−0.35	I	3.4	2
	14	Wy.	WI	+0.065		----	I	---	3
	15	Fn.	WI	+0.045		----	I	3.9	2½
	17	Fn.	WI	+0.080		−0.14	I	3.9	2
	18	Wy.	WI	+0.097		−0.83	I	3.4	3
	20	Fn.	WII	+0.105		−0.60	I	3.9	2½
	22	An.	WI	+0.057		−1.33	I	---	2
	30	Wy.	WI	+0.079		----	I	3.4	2½
Sept.	1	An.	WI	+0.083		----	II	3.1	2½
Oct.	*1*	*Wy.*	*WI*	-----	*−0.65*	*−0.65*	*I*	---	*2½*
1915									
Jan.	*7*	*Wy.*	*EI*	*+0.094*	----	----	*0*	---	*3*
May	9	Wy.	EI	+0.098		----	I	3.4	3
	31	Wy.	WI	+0.078		----	I	4.4	3
June	4	An.	WI	+0.072		----	I	4.9	3
	9	An.	EI	+0.099		----	I	4.9	3
	12	An.	WI	+0.034		----	II	3.6	2½
	18	Hd.	WI	+0.087		----	I	---	2
	22	Wy.	EI	+0.113		----	I	3.9	2½
1915				s	″	″			
July	9	Fn.	WI	+0.115		−0.98	I	---	2½
	12	Hd.	WI	+0.078		−0.27	I	4.4	3
	13	Fn.	WI	+0.042		−1.18	I	3.9	3½
	14	An.	WI	+0.093		−0.73	I	4.9	3
	16	Fn.	WI	+0.071		----	I	3.4	3
	17	An.	WI	+0.078		−0.43	I	---	3
	24	An.	EI	+0.072		−0.27	I	4.9	2½
	26	Fn.	EI	+0.032		----	I	---	3
	31	An.	EI	+0.106		----	I	---	3½
Aug.	5	Fn.	EI	+0.070		----	0	---	3
	7	An.	EI	+0.104		+0.19	I	4.9	2½
	9	Fn.	EI	+0.093		----	I	3.9	2½
	10	An.	EI	+0.086		+0.35	II	3.6	2
	12	Fn.	EI	+0.098		−0.13	I	3.9	3½
	13	An.	EI	+0.094		−0.54	I	4.4	2½
	15	Wy.	EI	+0.075		−0.26	I	3.9	3
Sept.	9	Wy.	WI	+0.079		−0.92	I	3.4	2½
1916									
Jan.	*20*	*Hd.*	*EI*	-----	*−0.70*	*−0.48*	*0*	---	*3*
Feb.	*3*	*Wy.*	*EI*	-----	*+0.31*	*+0.45*	*0*	---	*3*
	15	*Wy.*	*WI*	*+0.149*	----	----	*0*	---	*3½*
	20	*Fn.*	*WI*	*+0.137*	----	----	*0*	---	*3*
Mean			1914.24	+0.080		−0.48			
			1914.41						
Corr				−0.081		−0.17			

ϵ Sagittarii

			h m s	° ′ ″					
			18 18 11.871	−34 25 40.38					
1911			s	″	″				
Aug.	7	Fn.	WII	+0.111		−1.03	0	---	--
	16	Fn.	EII	+0.061		−1.29	I	2.1	--
	18	Fn.	EII	+0.089		+0.44	0	---	4
Sept.	1	Fn.	WII	+0.106		−0.37	0	---	--
	2	R.	WII	+0.067		−1.85	II	1.1	4
1915									
May	9	Wy.	EI	+0.096		−0.18	I	3.4	3½
June	4	An.	WI	+0.107		−0.64	I	---	3½
	9	An.	EI	+0.110		−0.88	I	---	3½
	12	An.	WI	+0.053		−0.53	II	3.1	3½
Mean			1913.32	+0.089		−0.70			
Corr				−0.081		+0.12			

109 Herculis

			h m s	° ′ ″					
			18 19 51.811	+21 43 40.04					
1911			s	″	″				
July	18	Hd.	EII	−0.018		----	I	3.4	--
	20	Fn.	EII	+0.012		----	I	3.4	--
	22	R.	EII	+0.021		+0.76	I	2.4	1½
	27	Fn.	WII	+0.022		----	I	3.3	2
	28	Hd.	WII	+0.044		+0.88	I	3.4	--
	29	R.	WII	+0.029		----	0	---	5
	31	Fn.	WII	+0.024		+0.66	I	3.4	2
Aug.	1	Hd.	WII	+0.049		+0.94	I	3.9	--
1912									
Feb.	*16*	*R.*	*EII*	*+0.012*	*+0.82*	*+0.87*	*0*	---	--
Mar.	*1*	*R.*	*WII*	*−0.002*	*−0.01*	*+0.01*	*0*	---	--
	10	*Hd.*	*EII*	-----	*+0.61*	*+0.61*	*0*	---	*3*
	13	*Hd.*	*EII*	-----	*+0.48*	*+0.46*	*0*	---	--
	19	*R.*	*EII*	-----	*+1.41*	*+1.40*	*0*	---	--
	22	*R.*	*EII*	-----	*+1.25*	*+1.24*	*0*	---	--
Aug.	12	Fn.	EII	+0.029		+0.74	I	3.5	1½
	28	Fn.	WII	+0.014		+0.25	0	---	2½
	30	Fn.	WII	+0.033		+0.22	0	---	--
Sept.	5	Fn.	EII	+0.014		+0.62	I	2.8	2
1913									
Jan.	*27*	*R.*	*EII*	*−0.019*	*+0.35*	*+0.40*	*0*	---	--
Feb.	*4*	*Fn.*	*WII*	*+0.004*	*+1.13*	*+1.14*	*0*	---	*3*
	14	*Hd.*	*WII*	*+0.026*	*+1.08*	*+1.14*	*0*	---	*3*
	17	*Hd.*	*EII*	*+0.019*	*+0.79*	*+0.82*	*0*	---	*2*
	24	*Hd.*	*EII*	*+0.051*	*+0.65*	*+0.67*	*0*	---	*3½*
May	24	R.	WII	+0.029		----	I	--	--

				s	″	″			
1913									
June	21	R.	EII	+0.012		----	0	---	2
	24	Fn.	EII	+0.039		+0.86	0	---	2
July	1	Fn.	EII	+0.022		+0.89	0	---	2
	3	R.	EII	+0.037		+0.44	I	3.4	2
	4	Hd.	EII	+0.024		+0.81	I	---	2
	5	Fn.	EII	+0.039		+0.72	I	3.9	3
	7	Hd.	WII	+0.035		+0.65	I	3.4	2
	8	Fn.	WII	+0.023		+0.80	0	4.5	2½
	10	Fn.	WII	0.000		+0.61	0	---	2
	11	Hd.	WII	+0.067		+1.11	0	---	2
	12	Fn.	WII	+0.038		+0.54	0	---	2½
	14	Fn.	WII	+0.014		+0.37	I	3.6	2
1914									
Feb.	*1*	*Fn.*	*WI*	*+0.092*	*+1.23*	*+1.26*	*0*	---	*3*
	8	*Fn.*	*EI*	*0.000*	*−0.30*	*−0.27*	*0*	---	*3*
Apr.	*1*	*Wy.*	*WI*	*−0.029*	*+0.57*	*+0.53*	*I*	---	*3*
May	22	Wy.	EI	+0.029		+0.12	I	3.4	2½
	26	Wy.	EI	+0.072		----	I	3.4	2½
June	6	Wy.	EI	+0.032		----	I	3.4	2
	11	Fn.	EI	+0.030		−0.17	0	---	2
	15	Fn.	EI	+0.037		----	I	---	2½
	27	Wy.	WI	+0.053		+0.91	0	---	2½
July	3	Hd.	WI	+0.025		----	I	---	2
	17	Hd.	WI	+0.016		+1.03	I	3.4	2
	19	Hd.	EI	+0.021		----	I	3.9	--
	20	Fn.	EI	+0.068		----	I	3.4	2
	21	Hd.	EI	+0.021		+0.59	I	3.4	3
	22	Fn.	EI	+0.014		+0.47	I	---	2
	28	Hd.	EI	−0.006		+0.39	I	3.4	2
	31	Fn.	EI	+0.049		+0.48	I	3.9	2
Aug.	3	Fn.	EI	+0.009		+0.48	I	3.9	2
	4	Wy.	EI	+0.023		+0.30	I	---	3
	6	Fn.	EI	+0.004		+0.42	I	4.4	2½
	7	Hd.	EI	+0.024		+0.09	I	3.4	2
	8	Wy.	EI	+0.040		+0.21	I	3.9	2½
	13	Hd.	WI	+0.033		----	I	3.4	2
	14	Wy.	WI	+0.059		----	I	3.9	2½
	15	Fn.	WI	+0.047		+1.16	I	3.9	2½
	17	Fn.	WI	+0.029		+1.33	I	---	2
	18	Wy.	WI	+0.019		+0.80	I	3.9	3
	20	Fn.	WI	+0.043		+0.49	0	---	2½
	30	Wy.	WI	−0.027		+1.08	I	3.9	2½
Sept.	1	An.	WI	+0.051		+0.77	I	3.9	2½
	8	Wy.	EI	+0.002		----	I	3.4	3
Oct.	*17*	*Wy.*	*EI*	*−0.009*	*+0.06*	*+0.11*	*0*	---	*3*
1915									
Jan.	*4*	*Wy.*	*EI*	*+0.046*	*+0.14*	*+0.20*	*0*	---	*3½*
	7	*Wy.*	*EI*	*+0.067*	*+0.10*	*+0.16*	*0*	---	*3½*
	15	*An.*	*WI*	*−0.007*	*+1.07*	*+1.13*	*0*	---	*3*
	20	*Wy.*	*EI*	*−0.002*	*−0.14*	*−0.11*	*0*	---	*3*
	25	*An.*	*EI*	*−0.010*	*+0.74*	*+0.76*	*0*	---	*3½*
	28	*Wy.*	*EI*	*+0.061*	*−0.58*	*−0.48*	*0*	---	*3½*
Apr.	8	An.	EI	-----		+1.01	I	4.4	2
June	10	Fn.	EI	+0.055		----	0	---	2
	17	Fn.	WI	−0.003		----	I	3.9	2
	19	Wy.	WI	+0.054		----	I	3.9	2½
	22	Wy.	EI	+0.045		----	I	3.9	2½
	24	Fn.	EI	+0.039		----	I	3.4	2
	25	Wy.	EI	+0.034		----	0	---	3½
	28	Wy.	EI	+0.030		----	I	3.4	2
July	2	Hd.	WI	−0.002		----	I	3.9	2
	6	Fn.	WI	−0.004		----	I	3.9	2½
	8	Hd.	WI	−0.010		----	I	2.9	2
	9	Fn.	WI	+0.041		+0.96	I	3.4	2½
	11	Fn.	WI	+0.016		+0.79	I	3.9	3
	12	Hd.	WI	−0.002		----	0	---	3
	13	Fn.	WI	+0.092		+0.62	I	4.4	3
	14	An.	WI	+0.033		+0.68	I	4.9	3
	16	Fn.	WI	+0.018		+0.40	I	3.9	2½
	17	An.	WI	+0.042		+1.13	I	---	2½
	21	An.	EI	+0.003		----	0	---	3
	22	Fn.	EI	+0.034		----	I	3.9	2½
	23	Hd.	EI	+0.018		----	I	3.4	2
	24	An.	EI	+0.037		+1.10	I	4.9	2
	31	An.	EI	+0.053		----	I	---	3½
Aug.	5	Fn.	EI	+0.051		----	0	---	3
	7	An.	EI	+0.014		+0.79	I	4.9	2½

				s	″	″			
1915									
Aug.	9	Fn.	EI	−0.016		+0.07	I	4.4	2½
	10	An.	EI	+0.026		+0.97	I	4.4	2
	12	Fn.	EI	−0.002		+0.14	I	4.4	3
	13	An.	EI	+0.031		+0.36	I	4.9	2
	15	Wy.	EI	+0.016		+0.82	I	3.9	2½
Sept.	9	Wy.	WI	+0.039		+1.01	I	3.9	2½
	24	Wy.	EI	+0.034		----	I	---	3
1916									
Jan.	*18*	*Fn.*	*EI*	*+0.057*	*+0.61*	*+0.65*	*0*	---	*3½*
	20	*Hd.*	*EI*	-----	*+0.11*	*+0.18*	*0*	---	*3*
	23	*Hd.*	*EI*	*+0.024*	----	----	*0*	---	*3*
Feb.	*3*	*Wy.*	*EI*	-----	*−0.08*	*−0.03*	*0*	---	*3*
	9	*Fn.*	*WI*	*+0.049*	*+0.39*	*+0.40*	*0*	---	*3½*
	15	*Wy.*	*WI*	*+0.024*	*+0.21*	*+0.22*	*0*	---	*3½*
Mean		1914.39		+0.027		+0.65			
		1914.26							
Corr				−0.081		−0.23			

Bradley 2303 [1]

				h	m	s	°	′	″			
1913												
May	28	R.	WII	18	19	59.491	−20	35	26.77	I	4.9	4
	31	R.	WII			59.439			26.20	0	6.0	4½
June	12	Hd	EII			59.475			25.98	0	5.5	3
	18	R.	EII			59.469			26.07	I	4.9	2
1914												
June	2	Fn.	EI			59.512			25.76	0	5.5	3½
	5	Fn.	EI			59.529			26.38	0	6.0	3
July	9	Hd.	WI			59.453			26.32	0	5.5	2
	11	Hd.	WI			59.436			26.44	0	---	2½
Mean		1913.95		18	19	59.476	−20	35	26.24			
Corr						−0.081			−0.07			

μ Lyræ

				h	m	s	°	′	″			
1915												
July	2	Hd.	WI	18	21	15.880	+39	27	-----	0	6.0	2
1916												
Aug.	6	Hd.	EI			15.884			-----	0	---	2
	7	Wy.	EI			15.871			-----	0	6.0	2
	14	Wy.	EI			15.903			-----	I	---	2½
	17	Fn.	EI			15.864			-----	0	5.5	2
	18	Wy.	EI			15.955			-----	0	5.5	2
Sept.	1	Fn.	WI			15.899			-----	0	5.5	2
1917												
Aug.	13	Fn.	WII			15.905			-----	0	5.5	2
Sept.	3	Hd.	EII			15.886			-----	0	6.0	2
1918												
July	22	Wy.	EII			15.895			-----	0	5.5	2½
Aug.	1	Fn.	WII			15.913			-----	0	---	2
Mean		1917.06		18	21	15.896	+39	27	-----			
Corr						−0.081			-----			

Pulkowa 1855, 2591

				h	m	s	°	′	″			
1911												
June	21	T.	EII	18	21	18.999	+7	58	50.27	0	6.0	--
	27	Hd.	WII			19.059			51.08	0	---	--
	28	T.	WII			19.036			51.47	0	6.0	--
July	3	Fn.	EII			19.031			50.16	0	---	--
1915												
July	6	Fn.	WI			19.023			51.44	0	5.5	3
	8	Hd.	WI			18.994			51.27	0	6.0	2
	22	Fn.	EI			19.051			51.56	0	5.5	2½
	23	Hd.	EI			19.014			51.41	0	6.0	2½
Mean		1913.51		18	21	19.026	+7	58	51.08			
Corr						−0.081			−0.20			

[1] Double; s. fol. component observed.

φ Draconis [1]

			h m s	° ′ ″			
1913							
June 4	R.	WII	18 22 2.99	+71 17 25.31	I	3.9	3
5	Hd.	WII	2.89	25.16	I	3.9	2
19	Hd.	EII	2.98	24.96	I	---	3
26	Hd.	EII	2.96	25.32	0	---	2
1914							
June 15	Fn.	EI	2.91	24.88	0	---	2
16	Hd.	EI	2.95	25.36	I	4.4	2
23	Hd.	WI	2.92	25.21	I	4.9	3
29	Fn.	WI	2.92	24.83	0	---	3
Mean	1913.96		18 22 2.940	+71 17 25.13			
Corr			−0.081	−0.34			

φ Draconis s. p.

			h m s	° ′ ″			
1912							
Feb. 17	R.	EII	18 22 2.92	+71 17 24.85	0	---	5
27	Hd.	WII	2.70	24.91	I	3.9	4
28	R.	WII	2.89	24.53	0	---	5
Mar. 10	Fn.	EII	3.00	24.92	0	5.0	4
1915							
Nov. 17	Fn.	WI	3.01	23.87	0	4.5	3½
22	Hd.	EI	3.03	23.58	0	6.0	3
27	Wy.	EI	2.90	23.01	0	5.0	3½
Dec. 8	Wy.	WI	3.04	23.73	0	5.5	3
Mean	1914.03		18 22 2.936	+71 17 24.18			
Corr			−0.081	+0.59			

λ Sagittarii

			h m s	° ′ ″			
			18 22 24.980	−25 28 20.78			
1912							
July 27	Fn.	WII	+0.041	+0.30	I	3.2	3½
Aug. 5	Fn.	EII	−0.014	+0.49	0	---	4
7	Fn.	EII	+0.065	+0.50	I	4.3	3
23	Fn.	WII	+0.007	+0.91	0	---	3½
1914							
June 6	Wy.	EI	+0.030	+0.63	I	2.9	2½
13	Wy.	EI	+0.087	+0.86	I	---	2½
30	Hd.	WI	+0.065	+0.85	I	3.4	2
July 3	Hd.	WI	+0.074	+1.18	I	3.4	3
Mean	1913.54		+0.044	+0.72			
Corr			−0.081	−0.03			

Lacaille 7724

			h m s	° ′ ″			
1911							
June 29	Fn.	WII	18 22 29.239	−26 48 42.77	0	7.0	--
30	Hd.	WII	29.253	42.27	0	7.0	--
July 5	R.	EII	29.248	41.87	0	7.5	--
6	Fn.	EII	29.249	42.12	0	6.8	2
1915							
May 9	Wy.	EI	29.248	41.78	0	7.0	4
19	Fn.	EI	29.259	41.72	0	7.0	3½
June 10	Fn.	EI	29.269	41.62	0	---	3
12	An.	WI	29.224	42.23	0	7.5	3
17	Fn.	WI	29.238	42.26	0	7.0	3
Mean	1913.68		18 22 29.247	−26 48 42.07			
Corr			−0.081	−0.01			

Pulkowa 1855, 2594

			h m s	° ′ ″			
1913							
June 6	Fn.	WII	18 22 30.484	+29 46 34.33	0	5.6	2
9	Hd.	WII	30.468	35.77	0	6.0	3
13	Fn.	EII	30.513	35.75	0	6.4	3
17	Fn.	EII	30.518	35.26	0	5.8	3
1914							
July 19	Hd.	EI	30.472	-----	0	6.0	2
20	Fn.	EI	30.519	35.75	0	5.5	2
Aug. 13	Hd.	WI	30.484	35.90	0	6.0	2
14	Wy.	WI	30.477	35.27	0	---	2½
Mean	1914.02		18 22 30.492	+29 46 35.43			
	1913.94						
Corr			−0.081	−0.25			

[1] Double; mean observed.

χ Draconis

			h m s	° ′ ″				
			18 22 41.312	+72 41 37.07				
1911								
July 1	R.	WII	−0.25	+1.22	I	3.9	--	
12	R.	WII	+0.05	+0.71	I	---	--	
17	Fn.	EII	−0.06	+1.10	I	3.5	3	
18	Hd.	EII	−0.20	+0.66	I	2.9	--	
1912								
June 10	Hd.–Fn.	EII	----	−0.46	I	---	4	R.
10	Hd.–Fn.	EII	----	+1.21	I	---	4	
11	Hd.–Fn.	EII	----	+0.51	I	---	3	R.
11	Hd.–Fn.	EII	----	+0.75	I	---	3	
20	Fn.–Hd.	EII	----	+0.06	I	---	2	R.
20	Fn.–Hd.	EII	----	+0.64	I	---	2	
July 2	Fn.–Hd.	EII	----	+0.56	I	---	2	R.
2	Fn.–Hd.	EII	----	+0.41	I	---	2	
3	Hd.–Fn.	WII	----	+0.33	I	---	2	R.
3	Hd.–Fn.	WII	----	+0.72	I	---	2	
5	Hd.–Fn.	WII	----	+0.61	I	---	3	R.
5	Hd.–Fn.	WII	----	+1.12	I	---	3	
6	Fn.–Hd.	WII	----	+0.81	I	---	2	R.
6	Fn.–Hd.	WII	----	+0.38	I	---	2	
8	Fn.–Hd.	WII	----	+0.49	I	---	2	R.
8	Fn.–Hd.	WII	----	+1.38	I	---	2	
1915								
June 18	Hd.	WI	−0.11	+0.83	I	4.9	2	
19	Wy.	WI	−0.12	+0.96	I	3.9	2½	
24	Fn.	EI	+0.07	+0.87	I	3.4	2	
28	Wy.	EI	−0.02	+1.35	I	4.4	3	
Mean	1913.50		−0.080	+0.89				
	1912.99							
Corr			−0.081	−0.35				

χ Draconis s. p.

			h m s	° ′ ″			
			18 22 41.300	+72 41 36.92			
1912							
Oct. 26	R.	EII	−0.25	−0.63	0	---	3
29	R.	EII	−0.11	−0.53	I	---	5
Nov. 4	R.	WII	+0.01	−0.04	I	4.4	4
9	Fn.	WII	−0.13	−0.27	0	---	3
1913							
Dec. 8	Hd.	EI	−0.16	−0.36	0	---	4
9	Fn.	EI	−0.02	−0.71	0	---	3½
20	R.	WI	−0.03	−0.64	I	4.4	2
29	Hd.	WI	−0.10	−0.38	I	3.9	2
Mean	1913.40		−0.099	−0.44			
Corr			−0.081	+0.56			

2 H. Scuti

			h m s	° ′ ″			
1911							
July 15	R.	WII	18 24 4.142	−14 37 26.59	0	4.5	1
19	R.	EII	4.092	25.68	0	4.5	3
20	Fn.	EII	4.095	25.70	0	5.3	--
27	Fn.	WII	4.120	26.88	0	4.9	--
1915							
July 8	Hd.	WI	4.112	25.99	I	4.9	2½
9	Fn.	WI	4.051	25.83	0	5.0	2½
22	Fn.	EI	4.125	26.01	0	5.0	3
Aug. 5	Fn.	EI	4.105	26.30	0	---	3
Mean	1913.55		18 24 4.105	−14 37 26.12			
Corr			−0.081	−0.11			

c Serpentis

			h m s	° ′ ″			
			18 24 59.950	− 2 2 39.05			
1912							
Aug. 12	Fn.	EII	[+0.134] [2]	+0.66	0	5.4	2
28	Fn.	WII	+0.045	+0.02	0	5.6	2
Sept. 5	Fn.	EII	+0.038	−0.18	0	5.5	2
12	R.	WII	+0.014	+0.19	I	4.9	2

[2] Observed over one group of contacts only.

				s	″			
1914								
June	2	Fn.	EI	+0.054	+0.96	0	5.5	3
	5	Fn.	EI	+0.064	+0.50	0	6.0	2½
July	8	Fn.	WI	+0.014	+0.15	0	5.5	2
	11	Hd.	WI	+0.009	−0.32	0	---	2½
Mean			1913.71		+0.034	+0.25		
			1913.57					
Corr					−0.081	−0.17		

Lacaille 7746

				h	m	s	°	′	″			
1911												
July	25	Hd.	EII	18	25	10.636	−33	2	57.99	0	5.5	4
	28	Hd.	WII			10.660			57.96	0	6.0	3½
	31	Fn.	WII			10.673			58.88	0	6.2	3
Aug.	9	Fn.	EII			10.649			59.13	0	---	4
1915												
July	2	Hd.	WI			10.686			58.16	0	---	3
	6	Fn.	WI			10.640			57.65	0	6.0	3
	23	Hd.	EI			10.684			58.48	0	---	3½
	24	An.	EI			10.650			58.73	0	6.5	3
Mean			1913.56	18	25	10.660	−33	2	58.37			
Corr						−0.081			+0.09			

Dorpat 1830, 2100

				h	m	s	°	′	″			
1913												
May	24	R.	WII	18	26	26.246	−10	51	31.25	0	6.0	4
	28	R.	WII			26.249			31.24	0	6.0	3½
June	12	Hd.	EII			26.276			30.77	0	6.0	2
	17	Fn.	EII			26.213			31.42	0	6.0	3½
1914												
June	13	Wy.	EI			26.228			30.53	0	---	2
	16	Hd.	EI			26.227			30.42	0	6.5	3
	30	Hd.	WI			26.260			29.42	0	6.2	2
July	3	Hd.	WI			26.274			30.54	0	6.0	2
	17	Hd.	WI			26.251			30.61	0	6.5	2½
Mean			1914.02	18	26	26.247	−10	51	30.69			
Corr						−0.081			−0.14			

Pulkowa 1855, 2607

				h	m	s	°	′	″			
1911												
June	21	T.	EII	18	27	4.275	+16	51	56.62	0	6.0	--
	27	Hd.	WII			4.324			56.12	0	---	--
	28	T.	WII			4.293			55.57	0	6.5	--
1915												
June	9	An.	EI			4.312			55.73	I	5.9	3
	12	An.	WI			4.256			56.51	0	6.0	2½
	18	Hd.	WI			4.257			55.83	0	---	2
July	22	Fn.	EI			4.278			56.14	0	6.0	2½
Mean			1913.77	18	27	4.285	+16	51	56.07			
Corr						−0.081			−0.22			

Groombridge 2589

				h	m	s	°	′	″			
1911												
July	12	R.	WII	18	28	5.446	+41	2	29.51	0	---	--
	14	Hd.	WII			5.380			29.49	0	7.0	2
	17	Fn.	EII			5.392			29.57	0	6.9	2
	18	Hd.	EII			5.313			29.38	0	7.0	--
1915												
May	9	Wy.	EI			5.386			30.80	0	7.0	3
	19	Fn.	EI			5.336			30.17	0	7.0	2½
	31	Wy.	WI			5.327			29.41	0	7.0	2½
June	4	An.	WI			5.311			-----	0	---	3
	17	Fn.	WI			5.339			29.00	0	7.0	2
Mean			1913.68	18	28	5.359	+41	2	29.67			
			1913.47									
Corr						−0.081			−0.27			

Groombridge 2596

				h	m	s	°	′	″			
1912												
July	25	Fn.	WII	18	29	50.694	+38	46	1.35	0	---	3
	27	Fn.	WII			50.669			0.47	0	7.3	2
Aug.	5	Fn.	EII			50.686			1.24	0	7.0	2
	7	Fn.	EII			50.721			1.52	0	6.8	2
1914												
June	2	Fn.	EI			50.716			1.27	0	7.0	2½
	6	Wy.	EI			50.743			1.58	0	7.0	--
	15	Fn.	EI			50.700			0.95	0	7.0	2½
	23	Hd.	WI			50.694			1.02	0	7.5	2
	29	Fn.	WI			50.721			0.20	0	7.0	3
1916												
July	20	Hd.	EI			------			0.86	0	6.5	2
Aug.	1	Fn.	WI			------			1.48	0	7.0	2½
	4	Fn.	WI			------			0.68	0	7.0	2
	7	Wy.	EI			------			0.28	0	7.0	2
Mean			1913.62	18	29	50.705	+38	46	0.99			
			1914.53									
Corr						−0.081			−0.27			

Bradley 2329

				h	m	s	°	′	″			
1911												
July	15	R.	WII	18	30	2.309	−11	2	53.00	0	4.5	1
	19	R.	EII			2.332			53.14	0	4.5	2
	20	Fn.	EII			2.291			52.68	0	5.8	3½
	27	Fn.	WII			2.305			52.64	0	5.5	2
1915												
July	2	Hd.	WI			2.340			53.35	0	6.5	2½
	5	Hd.	WI			2.305			52.95	0	5.5	3½
	22	Fn.	EI			2.319			52.46	0	5.5	3
	23	Hd.	EI			2.293			51.97	0	6.0	3½
Mean			1913.54	18	30	2.312	−11	2	52.77			
Corr						−0.081			−0.14			

Groombridge 2601

				h	m	s	°	′	″			
1912												
Aug.	12	Fn.	EII	18	30	7.787	+52	2	51.40	0	6.9	2
	28	Fn.	WII			7.763			52.19	0	---	3
Sept.	5	Fn.	EII			7.744			51.66	0	6.7	2
	12	R.	WII			7.763			51.53	0	6.5	1½
1914												
July	21	Hd.	EI			7.730			50.86	0	6.5	3
	22	Fn.	EI			7.770			51.27	0	7.0	2
Aug.	13	Hd.	WI			7.783			51.57	0	6.5	2
	14	Wy.	WI			7.760			51.17	0	---	3
Mean			1913.63	18	30	7.762	+52	2	51.46			
Corr						−0.081			−0.29			

1 Aquilæ

				h	m	s	°	′	″			
				18	30	18.561	−8	18	28.74			
1913												
June	10	R.	WII			+0.089			−0.43	I	3.4	3
	26	Hd.	EII			+0.077			−0.41	0	---	3
	30	Hd.	EII			+0.020			+0.16	I	3.4	3
July	7	Hd.	WII			+0.041			−0.20	I	3.4	3
1914												
Aug.	3	Fn.	EI			+0.044			+0.06	I	3.9	3
	4	Wy.	EI			+0.019			−0.05	0	---	3
	18	Wy.	WI			+0.062			−0.56	I	3.9	3
	20	Fn.	WI			+0.016			−0.28	0	---	2½
Mean			1914.05			+0.046			−0.21			
Corr						−0.081			−0.15			

Lalande 34436

				h	m	s	°	′	″			
1911												
June	29	Fn.	WII	18	30	27.242	+20	23	45.23	0	6.9	--
	30	Hd.	WII			27.259			45.46	0	7.0	--
July	5	R.	EII			27.202			45.66	0	7.0	1
	6	Fn.	EII			27.263			45.76	0	6.7	2

				h	m	s	°	′	″			
1915												
July	6	Fn.	WI			27.264			46.29	0	6.5	3
	8	Hd.	WI			27.289			45.46	0	7.0	2
Aug.	5	Fn.	EI			27.235			45.33	0	7.0	2½
	7	An.	EI			27.279			45.57	0	6.5	2
Mean		1913.53		18	30	27.254	+20	23	45.60			
Corr						−0.081			−0.23			

Weisse$_1$ XVIII 668

				h	m	s	°	′	″			
1913												
June	6	Fn.	WII	18	30	33.654	+10	49	14.27	0	7.0	2
	9	Hd.	WII			33.647			14.86	0	6.5	3
	13	Fn.	EII			33.679			14.21	0	7.0	3½
	19	Hd.	EII			33.671			14.49	0	7.0	2
1914												
July	28	Hd.	EI			33.666			14.86	0	6.2	2
	31	Fn.	EI			33.663			14.61	0	6.5	2
Aug.	15	Fn.	WI			33.696			14.66	0	---	2½
	17	Fn.	WI			33.650			15.03	0	---	2
Mean		1914.02		18	30	33.666	+10	49	14.62			
Corr						−0.081			−0.21			

Bradley 2340

				h	m	s	°	′	″			
1913												
July	1	Fn.	EII	18	31	1.401	+56	58	35.68	0	5.5	2
	3	R.	EII			1.364			35.88	I	4.4	2
	8	Fn.	WII			1.411			36.40	0	5.5	2
	10	Fn.	WII			1.408			36.21	0	---	2½
1914												
July	11	Hd.	WI			1.424			36.04	0	---	2½
	15	Hd.	WI			1.426			35.83	0	5.5	2
	19	Hd.	EI			1.390			35.11	I	4.9	2
	20	Fn.	EI			1.382			35.05	0	5.0	2
Mean		1914.03		18	31	1.401	+56	58	35.78			
Corr						−0.081			−0.31			

Groombridge 2603

				h	m	s	°	′	″			
1911												
July	25	Hd.	EII	18	31	15.039	+46	8	52.53	0	6.0	3
	28	Hd.	WII			15.146			53.16	0	6.5	2
	31	Fn.	WII			15.105			53.07	0	6.3	--
Aug.	8	R.	EII			15.174			52.30	0	6.0	1
1915												
July	11	Fn.	WI			15.098			52.30	0	6.5	3
	13	Fn.	WI			15.136			52.86	0	7.0	2½
Aug.	9	Fn.	EI			15.115			51.99	0	7.0	2½
	12	Fn.	EI			15.156			52.89	0	7.0	2½
Mean		1913.57		18	31	15.121	+46	8	52.64			
Corr						−0.081			−0.28			

B. D.+38° 3229

				h	m	s	°	′	″			
1916												
Aug.	8	Fn.	EI	18	32	-----	+38	49	16.05	0	7.5	2
	14	Wy.	EI			-----			16.06	0	7.0	2
	24	Wy.	WI			-----			16.41	0	7.0	2
	25	Fn.	WI			-----			16.32	0	7.5	2
Mean		1916.63		18	32	-----	+38	49	16.21			
Corr						-----			−0.27			

Fedorenko 2982

				h	m	s	°	′	″			
1913												
May	24	R.	WII	18	32	33.32	+67	42	24.13	0	7.0	2
	28	R.	WII			33.27			23.06	0	6.0	2½
June	19	Hd.	EII			33.31			23.37	0	---	2
	21	R.	EII			33.34			23.95	0	---	2
1914												
June	17	Wy.	EI			33.30			22.86	0	6.5	3
	30	Hd.	WI			33.26			23.28	0	6.5	3
July	8	Fn.	WI			33.26			22.61	0	7.0	2
	18	Hd.	EI			33.30			22.98	0	6.5	2
Mean		1913.97		18	32	33.295	+67	42	23.28			
Corr						−0.081			−0.34			

Weisse$_1$ XVIII 715

				h	m	s	°	′	″			
1911												
June	21	T.	EII	18	32	34.627	+0	52	27.67	0	6.5	--
	27	Hd.	WII			34.668			28.79	0	7.5	--
	28	T.	WII			34.675			28.32	0	7.0	--
July	3	Fn.	EII			34.574			27.99	0	6.7	--
1915												
June	9	An.	EI			34.649			28.97	0	7.0	3
	12	An.	WI			34.641			28.77	0	7.0	2½
	18	Hd.	WI			34.604			28.40	0	---	2
	24	Fn.	EI			34.650			27.71	0	7.0	2½
Mean		1913.47		18	32	34.636	+0	52	28.33			
Corr						−0.081			−0.18			

Piazzi XVIII 128

				h	m	s	°	′	″			
1913												
May	31	R.	WII	18	32	38.010	−17	18	28.96	0	7.5	4
June	4	R.	WII			38.076			29.34	0	7.5	4
	12	Hd.	EII			37.999			29.25	0	7.0	2
	26	Hd.	EII			37.973			29.37	0	---	2
1914												
June	13	Wy.	EI			37.984			28.94	0	---	2½
	16	Hd.	EI			38.020			29.13	0	7.5	3½
July	9	Hd.	WI			37.965			29.69	0	7.5	2
	17	Hd.	WI			37.991			29.19	0	7.0	3
Mean		1913.97		18	32	38.002	−17	18	29.23			
Corr						−0.081			−0.10			

α Lyræ

				h	m	s	°	′	″			
				18	33	53.593	+38	41	59.78			
						s			″			
1911												
July	1	R.	WII			+0.033			+0.39	II	0.1	--
	10	Fn.	WII			+0.010			−0.04	II	0.2	1½
	17	Fn.	EII			+0.046			+0.22	II	0.3	--
	18	Hd.	EII			+0.003			−0.39	I	---	--
1915												
June	19	Wy.	WI			+0.042			+0.33	II	---	2½
July	2	Hd.	WI			+0.020			+0.62	II	1.1	2
	16	Fn.	WI			+0.019			----	II	0.6	2½
	20	Hd.	EI			+0.045			----	II	---	3
	22	Fn.	EI			+0.080			+0.23	II	0.6	2
	23	Hd.	EI			+0.049			+0.12	II	1.1	2
Aug.	12	Fn	EI			+0.046			----	II	0.1	2
1916												
July	18	Wy.	EI			+0.036			+0.20	III	0.0	2
	20	Hd.	EI			+0.020			−0.27	II	1.1	2
Aug.	1	Fn.	WI			+0.058			+0.17	II	0.6	2½
	6	Hd.	EI			−0.008			----	I	---	2
	7	Wy.	EI			−0.007			−0.45	II	1.1	2
	17	Fn.	EI			−0.029			−0.25	II	1.1	2
	18	Wy.	EI			+0.012			−0.23	II	1.1	2
	21	Wy.	EI			−0.005			−0.90	II	1.1	3
	22	Fn.	EI			−0.031			−0.12	II	1.1	2
	28	Wy.	WI			+0.029			+0.16	II	0.1	2½
Sept.	1	Fn.	WI			−0.004			−0.22	II	1.1	2½
	3	Fn.	WI			−0.042			−0.96	II	1.1	2
	5	Wy.	WI			+0.026			−0.24	II	1.1	2
	7	Hd.	WI			+0.047			−0.19	II	1.1	3
	11	Hd.	WI			+0.027			−0.30	III	0.0	2
	19	Hd.	EI			+0.011			−0.01	II	0.6	2
	20	Wy.	EI			−0.008			−0.24	II	0.6	2
	22	Hd.	EI			+0.008			−0.01	II	1.1	2
	25	Wy.	EI			−0.017			−0.77	II	1.1	2
	26	Hd.	EI			+0.014			+0.14	II	1.1	2
	28	Wy.	WI			+0.034			−0.21	II	1.1	2
Oct.	*26*	*Wy.*	*EI*			*+0.010*	*−0.08*		*−0.08*	*II*	---	*3*
	27	*Hd.*	*EI*			*−0.009*	*−0.42*		*−0.42*	*0*	---	*2*
	31	*Fn.*	*EI*			*−0.046*	*−0.35*		*−0.35*	*0*	---	*3½*
Nov.	*2*	*Hd.*	*EI*			*−0.028*	*−0.53*		*−0.53*	*II*	---	*2*
	7	*Wy.*	*EI*			-----	*−0.47*		*−0.47*	*I*	---	*3½*
	10	*Fn.*	*EI*			*−0.009*	*−0.25*		*−0.25*	*0*	---	*3½*
	20	*Fn.*	*WI*			*+0.013*	*−0.27*		*−0.27*	*0*	---	*3½*
	27	*Wy.*	*WI*			*+0.033*	*+0.12*		*+0.12*	*I*	---	*3½*
Dec.	*5*	*Hd.*	*EI*			*+0.041*	----		----	*I*	---	*3*

				s	"	"			
1916									
Dec.	*7*	*Fn.*	*EI*	*+0.047*	*−0.29*	*−0.29*	*0*	---	*3½*
	8	*Hd.*	*EI*	*+0.013*	*−0.49*	*−0.49*	*I*	---	*3½*
	26	*Fn.*	*WI*	*+0.022*	*−0.70*	*−0.70*	*0*	---	*3½*
1917									
Jan.	*1*	*Wy.*	*WI*	*−0.001*	*−0.88*	*−0.88*	*I*	---	*3½*
	11	*Fn.*	*EI*	*+0.090*	*−0.40*	*−0.40*	*0*	---	*3½*
	17	*Fn.*	*EI*	*+0.049*	*−0.17*	*−0.17*	*0*	---	*3½*
	18	*Hd.*	*EI*	*+0.089*	*−1.16*	*−1.16*	*I*	---	*3½*
Mar.	*5*	*Fn.*	*WI*	*+0.040*	*−0.65*	*−0.65*	*0*	---	*2*
	8	*Fn.*	*WI*	*+0.064*	*−0.54*	*−0.54*	*0*	---	*3*
	15	*Hd.*	*EI*	*+0.027*	*−0.13*	*−0.13*	*II*	---	*3*
	18	*Fn.*	*EI*	*−0.010*	*−0.05*	*−0.05*	*I*	---	*2*
	19	*Hd.*	*EI*	*+0.066*	*+0.11*	*+0.11*	*I*	---	*2*
	21	*Fn.*	*EI*	*+0.022*	*+0.40*	*+0.40*	*I*	---	*2½*
	22	*Hd.*	*EI*	*+0.006*	*+0.36*	*+0.36*	*II*	---	*2*
	29	*Fn.*	*WI*	*+0.060*	*−0.53*	*−0.53*	*I*	---	*3½*
July	30	Wy.	EII	+0.038		−0.46	II	1.1	2
	31	Fn.	EII	+0.004		−0.04	I	---	2
Aug.	3	Fn.	WII	+0.045		+0.33	II	0.6	2
	7	Wy.	WII	−0.009		+0.06	II	---	2½
	10	Wy.	WII	+0.048		−0.15	II	1.1	2
	13	Wy.	WII	+0.044		+0.04	II	1.1	2
	17	Wy.	WII	+0.002		+0.50	II	1.1	2½
	20	Fn.	WII	+0.017		+0.55	I	---	1½
	21	Wy.	WII	+0.005		+0.03	II	1.1	2
	25	Wy.	EII	+0.001		+0.63	II	1.1	2½
Sept.	3	Hd.	EII	+0.002		----	II	1.1	2
	4	Fn.	EII	+0.052		−0.41	II	0.1	2
	11	Fn.	EII	+0.017		−0.50	II	0.6	1½
	13	Hd.	EII	+0.054		−0.45	II	1.1	2
	17	Hd.	EII	−0.001		−0.24	II	0.6	2
	18	Wy.	EII	+0.008		+0.26	II	0.1	2
	20	Hd.	WII	+0.008		+0.54	II	0.6	3
Oct.	*1*	*Hd.*	*WII*	*−0.015*	*+0.48*	*+0.48*	*II*	---	*3*
	2	*Fn.*	*WII*	*+0.046*	*−0.14*	*−0.14*	*II*	---	*2*
	26	*Fn.*	*EII*	*+0.008*	*−0.93*	*−0.93*	*I*	---	*3*
Nov.	*2*	*Fn.*	*EII*	*+0.041*	*−0.81*	*−0.81*	*I*	---	*3*
	12	*Wy.*	*WII*	*−0.004*	*+0.07*	*+0.07*	*I*	---	*3½*
	20	*Fn.*	*WII*	*+0.029*	*−0.08*	*−0.08*	*I*	---	*3*
1918									
Jan.	*7*	*Hd.*	*EII*	*+0.094*	*−1.43*	*−1.43*	*I*	---	*3*
	9	*Fn.*	*EII*	*+0.035*	*−1.77*	*−1.77*	*0*	---	*4*
	16	*Fn.*	*EII*	*+0.086*	*−1.40*	*−1.40*	*0*	---	*3½*
Feb.	*3*	*Hd.*	*WII*	*+0.060*	*+0.73*	*+0.73*	*I*	---	*3*
	10	*Wy.*	*WII*	*+0.015*	----	----	*I*	---	*3*
	13	*Wy.*	*WII*	*+0.010*	*+0.27*	*+0.27*	*II*	---	*3*
	14	*Fn.*	*WII*	*+0.012*	*+0.93*	*+0.93*	*0*	---	*3½*
	17	*Fn.*	*EII*	*+0.038*	*−0.99*	*−0.99*	*I*	---	*2½*
Mar.	*7*	*Wy.*	*EII*	*+0.021*	*−0.06*	*−0.06*	*I*	---	*3*
	10	*Hd.*	*WII*	*−0.001*	*+0.38*	*+0.38*	*II*	---	*2*
	17	*Wy.*	*WII*	*−0.005*	*+0.05*	*+0.05*	*II*	---	*3*
	18	*Hd.*	*WII*	*−0.018*	*+0.62*	*+0.62*	*II*	---	*3*
	25	*Wy.*	*WII*	*+0.028*	*+0.28*	*+0.28*	*II*	---	*3*
	27	*Fn.*	*WII*	*+0.192*	*+0.21*	*+0.21*	*0*	---	*4*
July	15	Wy.	EII	+0.025		−0.38	II	1.1	2
	22	Wy.	EII	+0.006		+0.03	II	0.6	2½
	25	Fn.	EII	+0.032		−0.16	II	0.1	2½
Aug.	1	Fn.	WII	+0.031		+0.05	II	1.1	2
	5	Wy.	WII	+0.023		−0.19	II	---	2
	15	Fn.	WII	+0.078		−0.09	II	0.1	2
Mean		1916.66		+0.020		−0.07			
		1916.71							
Corr				−0.081		−0.27			

Bradley 2412

				h	m	s	°	′	″			
1911												
July	14	Hd.	WII	18	36	3.57	+83	6	37.14	0	7.0	---
	15	R.	WII			3.37			37.84	0	---	---
	19	R.	EII			3.37			37.16	0	6.5	3
	20	Fn.	EII			3.45			37.90	0	---	3
1915												
May	9	Wy.	EI			3.25			37.82	0	6.5	3
	31	Wy.	WI			3.44			37.21	0	6.0	3
June	4	An.	WI			3.67			37.16	0	6.5	3
	28	Wy.	EI			3.55			37.29	0	6.0	3
Mean		1913.48		18	36	3.459	+83	6	37.44			
Corr						−0.081			−0.38			

Bradley 2412 s. p.

				h	m	s	°	′	″			
1912												
Feb.	16	Hd.	EII	18	36	3.12	+83	6	37.24	0	7.0	2
	17	R.	EII			3.28			36.34	0	7.0	3½
	22	R.	WII			3.03			37.05	0	---	5
	23	Hd.	WII			3.36			37.20	0	6.0	2
1915												
Nov.	29	Wy.	EI			3.77			36.36	0	7.5	3
	30	Hd.	EI			3.73			36.35	0	6.5	3
Dec.	6	Hd.	WI			3.31			36.02	0	6.5	3
	8	Wy.	WI			3.17			37.30	0	---	3
Mean		1914.03		18	36	3.346	+83	6	36.73			
Corr						−0.081			+0.46			

Piazzi XVIII 174

				h	m	s	°	′	″			
1912												
July	25	Fn.	WII	18	36	44.72	+62	26	40.82	0	6.0	3
	26	R.	WII			44.71			40.15	0	5.5	3
Aug.	5	Fn.	EII			44.74			40.80	0	---	2
	7	Fn.	EII			44.81			40.29	0	6.6	2
1914												
June	16	Hd.	EI			44.81			40.75	0	6.5	3
	17	Wy.	EI			44.82			40.45	0	6.0	3
	23	Hd.	WI			44.77			39.20	0	---	2
	29	Fn.	WI			44.73			40.23	0	6.0	2½
Mean		1913.53		18	36	44.764	+62	26	40.34			
Corr						−0.081			−0.32			

2 Aquilæ

				h	m	s	°	′	″			
				18	37	20.818	− 9	8	21.51			
1912												
July	27	Fn.	WII			+0.004			+0.08	0	5.2	3
Aug.	12	Fn.	EII			−0.024			+0.65	0	---	3
	23	Fn.	WII			−0.032			+0.34	0	---	3
Sept.	5	Fn.	EII			−0.035			−0.50	0	---	2
1914												
July	11	Hd.	WI			−0.031			+0.13	0	---	2½
	15	Hd.	WI			−0.022			+0.05	0	---	2
	18	Hd.	EI			−0.010			−0.18	I	4.4	2
	19	Hd.	EI			−0.034			+0.25	I	4.4	2
Mean		1913.58				−0.023			+0.10			
Corr						−0.081			−0.15			

Weisse$_2$ XVIII 1091

				h	m	s	°	′	″			
1911												
June	21	T.	EII	18	38	17.467	+31	31	49.35	0	6.5	---
	27	Hd.	WII			17.420			49.08	0	7.0	---
	28	T.	WII			17.412			49.88	0	7.0	---
July	3	Fn.	EII			17.482			49.28	0	6.8	---
1915												
June	9	An.	EI			17.447			49.64	0	7.0	3
	12	An.	WI			17.435			49.29	0	6.5	2
	17	Fn.	WI			17.419			49.10	0	7.0	2
	24	Fn.	EI			17.475			49.58	0	7.0	2½
Mean		1913.47		18	38	17.445	+31	31	49.40			
Corr						−0.081			−0.25			

Bradley 2343

				h	m	s	°	′	″			
1913												
May	24	R.	WII	18	38	37.225	− 8	21	53.83	0	6.0	3½
	28	R.	WII			37.215			53.72	0	5.0	4
June	12	Hd.	EII			37.210			52.73	I	4.9	2
	13	Fn.	EII			37.215			53.01	0	5.4	3½
1914												
July	8	Fn.	WI			37.211			53.48	0	5.5	2
	9	Hd.	WI			37.198			53.07	0	5.5	2
	21	Hd.	EI			37.217			53.93	0	5.5	3
	22	Fn.	EI			37.223			53.50	0	6.0	2½
Mean		1913.98		18	38	37.214	− 8	21	53.41			
Corr						−0.081			−0.15			

Piazzi XVIII 155

			h	m	s	°	′	″			
1911											
June 29	Fn.	WII	18	39	17.671	−25	6	6.90	0	6.3	--
30	Hd.	WII			17.706			7.02	0	7.5	--
July 5	R.	EII			17.722			7.59	0	6.0	--
6	Fn.	EII			17.716			7.50	0	6.4	3
1915											
June 18	Hd.	WI			17.704			7.61	0	---	3
19	Wy.	WI			17.726			7.75	0	---	3½
July 22	Fn.	EI			17.699			6.91	0	7.0	3½
23	Hd.	EI			17.668			6.69	0	6.5	3
Mean------	1913.51		18	39	17.702	−25	6	7.25			
Corr------					−0.081			−0.03			

φ Sagittarii

			h	m	s	°	′	″				
			18	40	2.037	−27	5	2.29				
1913												
May 31	R.	WII			+0.023			−0.40	I	4.4	4	4½
June 4	R.	WII			+0.165			−0.73	I	4.4	4	5
18	R.	EII			+0.088			+0.05	I	3.9	3	
19	Hd.	EII			+0.085			−0.55	0	---		3½
1914												
June 13	Wy.	EI			+0.085			+0.51	0	---		3
15	Fn.	EI			+0.108			−0.11	0	---		2
30	Hd.	WI			+0.086			−0.43	I	4.9	3	
July 3	Hd.	WI			+0.040			+0.46	I	---		3
Mean------	1913.96				+0.085			−0.15				
Corr------					−0.081			−0.01				

Bradley 2345

			h	m	s	°	′	″				
1911												
July 1	R.	WII	18	40	55.049	−22	29	14.14	0	5.5	--	
12	R.	WII			55.007			13.15	0	5.3	3	3½
17	Fn.	EII			55.041			12.66	0	5.6	4	
18	Hd.	EII			55.016			13.55	0	5.5	2	
1915												
May 9	Wy.	EI			55.063			13.06	0	6.0	3	
31	Wy.	WI			55.018			13.35	0	6.5	3	
June 4	An.	WI			55.039			14.16	0	---		3½
28	Wy.	EI			55.055			13.62	0	6.0	3	
Mean------	1913.47		18	40	55.036	−22	29	13.46				
Corr------					−0.081			−0.06				

ϵ^2 Lyræ *mean*

			h	m	s	°	′	″				
1915												
July 16	Fn.	WI	18	41	23.931	+39	31	-----	0	---		2½
20	Hd.	EI			23.883			-----	0	---		3
Aug. 9	Fn.	EI			23.893			-----	0	---		2½
12	Fn.	EI			23.902			-----	0	5.5	2	
15	Wy.	EI			23.847			-----	0	5.5	2	
1916												
Aug. 6	Hd.	EI			23.839			-----	0	---		2
7	Wy.	EI			23.801			-----	0	5.0	2	
17	Fn.	EI			23.783			-----	0	---		2
18	Wy.	EI			23.890			-----	0	5.0	2	
28	Wy.	WI			23.910			-----	I	4.9	2	2½
Sept. 1	Fn.	WI			23.825			-----	0	---		2½
7	Hd.	WI			23.872			-----	0	---		3
11	Hd.	WI			23.863			-----	I	---		2
22	Hd.	EI			23.844			-----	0	---		2
1917												
July 30	Wy.	EII			23.848			-----	0	5.0	2	
Mean------	1916.36		18	41	23.862	+39	31	-----				
Corr------					−0.081			-----				

110 Herculis

			h	m	s	°	′	″				
			18	41	47.251	+20	27	33.24				
1912												
June 10	Hd.–Fn.	EII			-----			−1.09	I	---	4	R.
10	Hd.–Fn.	EII			-----			+0.52	I	---	4	
11	Hd.–Fn.	EII			-----			−0.55	I	---	3	R.
11	Hd.–Fn.	EII			-----			+0.35	I	---	3	
20	Fn.–Hd.	EII			-----			−1.08	0	---	--	R.
20	Fn.–Hd.	EII			-----			+0.23	0	---	--	
July 2	Fn.–Hd.	EII			-----			−0.32	I	---	2	R.
2	Fn.–Hd.	EII			-----			+0.20	I	---	2	
3	Hd.–Fn.	WII			-----			−0.16	I	---	2	R.
3	Hd.–Fn.	WII			-----			+0.02	I	---	2	
5	Hd.–Fn.	WII			-----			−0.23	I	---	3	R.
5	Hd.–Fn.	WII			-----			+0.26	I	---	3	
6	Fn.–Hd.	WII			-----			−0.42	0	---	2	R.
6	Fn.–Hd.	WII			-----			−0.11	I	---	2	
8	Fn.–Hd.	WII			-----			−0.43	0	---	2	R.
8	Fn.–Hd.	WII			-----			−0.28	I	---	2	
1913												
June 6	Fn.	WII			+0.071			+0.02	0	4.8	2	
9	Hd.	WII			+0.085			+0.60	I	3.9	2	½
17	Fn.	EII			+0.092			−0.40	0	4.8	3	
21	R.	EII			+0.072			+0.10	1	---	2	
Aug. 14	R.–Fn.	WII			-----			−0.28	I	---	2	½ R.
14	R.–Fn.	WII			-----			−0.33	I	3.9	2	
15	Fn.–R.	WII			-----			−0.10	I	3.4	2	
20	R.–Fn.	EII			-----			+0.45	I	---	3	R.
20	R.–Fn.	EII			-----			−0.20	1	3.4	2	
23	R.–Fn.	EII			-----			−0.85	I	---	2	R.
23	R.–Fn.	EII			-----			+0.46	I	3.4	2	
25	R.–Fn.	EII			-----			−0.89	I	---	2	R.
25	R.–Fn.	EII			-----			−0.33	I	3.4	2	
26	Fn.–R.	EII			-----			−0.27	0	---	2	R.
26	Fn.–R.	EII			-----			−0.12	0	4.5	2	
30	Fn.–R.	EII			-----			−0.52	0	---	2	R.
30	Fn.–R.	EII			-----			−0.26	I	3.9	2	
1914												
June 16	Hd.	EI			+0.062			+0.12	I	4.4	3	
17	Wy.	EI			+0.082			+0.21	I	3.9	3	
23	Hd.	WI			+0.077			+0.41	I	4.9	2	
29	Fn.	WI			+0.072			+0.33	I	3.9	2	½
Mean------	1913.96				+0.077			+0.07				
	1913.35											
Corr------					−0.081			−0.23				

6 Aquilæ

			h	m	s	°	′	″				
			18	42	23.948	−4	50	41.41				
1911												
June 8	Fn.	WII			+0.105			+0.02	0	5.3	--	
9	Hd.	WII			+0.067			−0.40	I	4.4	--	
18	R.	EII			+0.095			+0.30	0	---	--	
20	Hd.	EII			+0.086			+0.13	I	3.9	--	
1915												
June 9	An.	EI			+0.031			+0.91	I	4.9	3	
12	An.	WI			+0.017			−0.58	I	5.4	2	½
19	Wy.	WI			+0.049			−1.08	0	---		3½
24	Fn.	EI			+0.054			+0.16	0	4.5	2	½
Mean------	1913.46				+0.063			−0.07				
Corr------					−0.081			−0.16				

Lalande 34925

			h	m	s	°	′	″				
1912												
July 25	Fn.	WII	18	42	44.470	+18	36	33.73	0	---		3
27	Fn.	WII			44.483			32.88	0	6.6	2	
Aug. 7	Fn.	EII			44.466			33.61	0	6.6	2	
Sept. 5	Fn.	EII			44.456			32.64	0	6.6	2	
1914												
July 11	Hd.	WI			44.491			33.64	0	---		2
15	Hd.	WI			44.498			33.86	0	7.0	2	
18	Hd.	EI			44.470			33.45	0	6.2	2	
19	Hd.	EI			44.489			33.40	0	7.0	2	
Mean------	1913.57		18	42	44.478	+18	36	33.40				
Corr------					−0.081			−0.23				

Nova Aquilæ

				h m s	° ′ ″			
1918								
July 15	Wy.	EII	18	44 19.074	+0 28 59.63	I	3.4	2
22	Wy.	EII		19.070	60.05	0	5.5	3
Aug. 5	Wy.	WII		19.053	58.48	0	5.5	3
8	Wy.	WII		19.042	59.06	0	6.0	3
15	Fn.	WII		19.026	59.43	0	5.5	2
Mean	1918.58		18	44 19.053	+0 28 59.33			
Corr				−0.081	−0.18			

Weisse$_1$ XVIII 1064

				h m s	° ′ ″			
1911								
June 21	T.	EII	18	45 26.033	−13 40 34.39	0	6.5	--
27	Hd.	WII		26.085	34.56	0	6.5	--
28	T.	WII		26.043	34.17	0	7.0	--
July 3	Fn.	EII		26.035	34.76	0	---	--
1915								
July 13	Fn.	WI		26.064	35.32	0	7.0	3½
14	An.	WI		26.045	34.57	0	6.0	3
24	An.	EI		26.058	34.46	0	6.0	2½
Aug. 5	Fn.	EI		26.064	34.41	0	---	3½
Mean	1913.52		18	45 26.053	−13 40 34.58			
Corr				−0.081	−0.12			

B. D.+7° 3862

				h m s	° ′ ″			
1913								
May 24	R.	WII	18	46 4.386	+7 21 15.67	0	7.0	2
28	R.	WII		4.353	15.91	0	6.0	3
June 12	Hd.	EII		4.343	15.93	0	6.5	3
13	Fn.	EII		4.357	15.95	0	7.5	3½
1914								
June 13	Wy.	EI		4.361	16.49	0	---	3
16	Hd.	EI		4.376	16.20	0	7.5	3
30	Hd.	WI		4.356	16.86	0	7.0	3
July 3	Hd.	WI		4.377	16.79	0	---	2
Mean	1913.95		18	46 4.364	+7 21 16.22			
Corr				−0.081	−0.20			

Weisse$_2$ XVIII 1344

				h m s	° ′ ″			
1911								
June 29	Fn.	WII	18	46 17.479	+26 19 12.97	0	6.5	--
30	Hd.	WII		17.518	12.58	0	7.0	--
July 5	R.	EII		17.509	12.55	0	7.5	--
6	Fn.	EII		17.533	12.64	0	6.6	2
1915								
July 8	Hd.	WI		17.459	12.18	0	7.0	2
9	Fn.	WI		17.526	12.45	0	7.0	2½
Aug. 7	An.	EI		17.470	13.10	0	7.5	2
10	An.	EI		17.476	12.46	0	7.5	1½
Mean	1913.53		18	46 17.496	+26 19 12.62			
Corr				−0.081	−0.24			

Bradley 2362

				h m s	° ′ ″			
1913								
May 31	R.	WII	18	46 38.611	−3 25 25.60	0	6.5	2½
June 4	R.	WII		38.624	25.74	0	6.0	3
18	R.	EII		38.580	25.42	0	6.5	2
19	Hd.	EII		38.622	25.92	0	---	3
1914								
July 8	Fn.	WI		38.620	25.77	0	6.5	2
9	Hd.	WI		38.610	25.24	0	6.5	2
21	Hd.	EI		38.610	25.81	0	6.5	3½
22	Fn.	EI		38.608	24.97	0	---	2½
Mean	1913.99		18	46 38.611	−3 25 25.56			
Corr				−0.081	−0.17			

β Lyræ

				h m s	° ′ ″			
			18	46 45.418	+33 15 27.62			
1911								
July 1	R.	WII		−0.031	+0.32	0	3.0	--
10	Fn.	WII		+0.087	−0.29	I	3.3	1½
17	Fn.	EII		+0.025	+0.21	I	3.9	--
19	R.	EII		+0.020	−0.44	I	2.4	1
1914								
Oct. 17	Wy.	EI		−0.029	----	0	---	2½
20	Hd.	EI		+0.035	----	I	4.4	2
1915								
May 9	Wy.	EI		+0.011	+0.32	I	3.4	3
31	Wy.	WI		+0.035	+0.53	I	3.9	2
June 4	An.	WI		−0.005	+0.38	I	4.9	2
9	An.	EI		+0.044	----	I	4.9	3
24	Fn.	EI		+0.045	−0.10	I	3.9	2
July 16	Fn.	WI		+0.023	----	I	3.9	2½
20	Hd.	EI		+0.021	----	I	3.9	2
Aug. 9	Fn.	EI		+0.025	----	0	---	2
12	Fn.	EI		+0.034	----	I	3.4	2
15	Wy.	EI		+0.011	----	I	3.9	2
Sept. 27	Hd.	EI		+0.001	----	I	2.9	2
1916								
Aug. 6	Hd.	EI		−0.001	----	0	---	2
7	Wy.	EI		−0.035	----	I	3.9	2
14	Wy.	EI		−0.009	----	I	3.9	2½
17	Fn.	EI		−0.012	----	I	3.9	2
18	Wy.	EI		+0.025	----	I	3.9	2
24	Wy.	WI		+0.026	----	I	3.9	2
28	Wy.	WI		+0.042	----	I	3.4	2
Sept. 1	Fn.	WI		−0.010	----	0	4.5	2½
7	Hd.	WI		+0.031	----	I	4.4	3
11	Hd.	WI		+0.003	----	I	3.9	2
22	Hd.	EI		−0.015	----	I	3.4	2
28	Wy.	WI		+0.030	----	I	3.4	2
Dec. 5	Hd.	EI		−0.005	----	0	---	3
1917								
July 30	Wy.	EII		+0.022	----	I	3.9	2½
Aug. 13	Fn.	WII		+0.035	----	I	3.9	2
17	Wy.	WII		+0.041	----	I	3.9	2
20	Fn.	WII		+0.035	----	0	---	2
Sept. 3	Hd.	EII		+0.019	----	I	4.4	2
1918								
Feb. 10	Wy.	WII		−0.031	----	0	---	3
Mean	1915.82			+0.015	+0.12			
	1913.47							
Corr				−0.081	−0.26			

Lacaille 7899

				h m s	° ′ ″			
1913								
June 6	Fn.	WII	18	46 54.138	−29 29 12.24	0	---	3½
9	Hd.	WII		54.127	12.24	0	6.5	3½
26	Hd.	EII		54.142	11.80	0	7.5	3
30	Hd.	EII		54.187	12.07	0	6.5	3
1914								
July 11	Hd.	WI		54.094	12.70	0	---	2
28	Hd.	EI		54.203	11.51	0	6.5	2½
31	Fn.	EI		54.181	11.60	0	7.0	3½
Aug. 14	Wy.	WI		54.105	12.16	0	---	3
Mean	1914.02		18	46 54.147	−29 29 12.04			
Corr				−0.081	+0.02			

Bradley 2371

				h m s	° ′ ″			
1911								
June 8	Fn.	WII	18	48 25.804	+21 18 58.88	0	5.7	--
9	Hd.	WII		25.768	57.69	0	5.5	--
18	R.	EII		25.815	58.41	0	---	--
20	Hd.	EII		25.867	58.32	0	---	--
1915								
June 12	An.	WI		25.797	58.40	I	5.4	2½
17	Fn.	WI		25.790	57.60	0	5.5	2
28	Wy.	EI		25.791	57.98	I	4.9	2
July 24	An.	EI		25.787	58.04	0	5.5	2
Mean	1913.47		18	48 25.802	+21 18 58.16			
Corr				−0.081	−0.23			

50 Draconis

h m s ° ′ ″
18 49 17.006 +75 19 41.06

1911								
July	28	Hd.	WII	−0.09	+0.77	0	5.7	2
	31	Fn.	WII	−0.03	+0.64	0	5.4	2
Aug.	8	R.	EII	+0.07	+1.44	0	4.5	2
	10	R.	EII	−0.05	+0.73	0	6.0	2½
1915								
June	18	Hd.	WI	−0.06	+1.47	0	6.5	2
	19	Wy.	WI	−0.06	+1.77	0	6.0	3
July	26	Fn.	EI	+0.02	+0.79	0	---	4
Aug.	9	Fn.	EI	+0.13	+1.28	0	---	2½
	10	An.	EI	−0.04	+1.46	0	---	2½
Mean		1913.78		−0.012	+1.15			
Corr				−0.081	−0.35			

50 Draconis s. p.

h m s ° ′ ″
18 49 17.007 +75 19 41.05

1912								
Dec.	19	R.	EII	−0.13	+1.12	0	---	5
	21	R.	EII	−0.08	+0.31	0	6.0	3
	22	R.	WII	−0.11	+0.60	0	6.5	3
	27	Fn.	WII	−0.41	+0.51	0	---	4
1913								
Nov.	5	R.	EI	−0.12	+0.14	0	---	5
	10	Hd.	WI	−0.03	+0.80	0	6.5	4
	17	Hd.	WI	+0.02	+0.63	0	5.5	4
Dec.	11	Hd.	EI	+0.18	+0.49	0	6.0	3½
	13	R.	EI	−0.09	+1.14	0	5.5	2
Mean		1913.49		−0.086	+0.64			
Corr				−0.081	+0.53			

σ Sagittarii

h m s ° ′ ″
18 49 41.071 −26 24 33.83

				s	″	″			
1911									
July	18	Hd.	EII	+0.118		----	II	2.6	2
	24	Fn.	EII	+0.062		[+1.80]	I	2.6	4
	26	R.	WII	+0.083		+0.88	I	2.6	4
Aug.	1	Hd.	WII	+0.111		−0.12	0	---	4
	6	R.	WII	+0.116		−0.42	I	2.9	2½
	7	Fn.	WII	+0.110		+0.07	I	---	2½
	16	Fn.	EII	+0.137		----	I	2.3	3
	17	R.	EII	+0.146		−0.36	I	2.4	4
	18	Fn.	EII	+0.113		+0.12	I	2.4	3½
	19	R.	EII	+0.088		+0.86	II	2.6	2
	21	Fn.	EII	+0.124		[−2.76]	I	2.5	3
	22	R.	EII	+0.087		+0.61	II	2.1	1½
Sept.	19	Hd.	WII	+0.104		+1.04	I	3.4	3
	22	Hd.	WII	+0.092		+0.03	I	2.4	3
1912									
Feb.	*15*	*Hd.*	*EII*	*+0.082*	*+0.75*	*+0.75*	*0*	---	*3½*
	22	*Hd.*	*WII*	*+0.098*	*+0.37*	*+0.32*	*0*	---	*4*
Mar.	*1*	*R.*	*WII*	*+0.142*	*+0.07*	*+0.16*	*0*	---	--
	10	*Hd.*	*EII*	-----	*+0.61*	*+0.61*	*0*	---	*3*
	13	*Hd.*	*EII*	-----	*+0.23*	*+0.09*	*0*	---	--
	18	*Hd.*	*EII*	*+0.095*	*−0.08*	*−0.32*	*0*	---	*2½*
	19	*R.*	*EII*	-----	*+0.55*	*+0.55*	*0*	---	--
	22	*R.*	*EII*	-----	*+1.00*	*+0.95*	*0*	---	--
	25	*Hd.*	*WII*	*+0.056*	*+0.45*	*+0.36*	*0*	---	*3*
Apr.	*2*	*R.*	*WII*	*+0.073*	*+0.73*	*+0.80*	*0*	---	--
	3	*Fn.*	*WII*	-----	*+1.21*	*+1.30*	*0*	---	*4*
	5	*R.*	*EII*	*+0.123*	*−0.11*	*+0.22*	*0*	---	--
July	25	Fn.	WII	+0.093		−0.30	0	---	4
	26	R.	WII	+0.107		+0.68	I	1.9	3½
	27	Fn.	WII	+0.157		+0.22	I	---	3
Aug.	5	Fn.	EII	+0.112		+0.20	I	---	2
	7	Fn.	EII	+0.128		+0.66	I	3.4	3
	12	Fn.	EII	+0.101		+0.98	I	2.2	3
	23	Fn.	WII	+0.111		−0.03	0	---	3½
	28	Fn.	WII	+0.116		+0.44	0	---	3½
Sept.	5	Fn.	EII	+0.119		+0.15	I	---	3
	12	R.	WII	+0.084		+1.61	II	2.6	1½
	30	Hd.	EII	+0.113		+0.57	II	2.1	2
1913									
May	24	R.	WII	+0.139		−0.57	I	1.9	4
June	21	R.	EII	+0.118		----	I	---	--
	24	Fn.	EII	+0.120		+0.18	I	3.4	3
July	10	Hd.	WII	+0.081		+0.58	0	---	3
	11	Fn.	WII	+0.123		----	I	---	3
	14	Fn.	WII	+0.150		+0.67	I	2.7	3½
1914									
Aug.	7	Hd.	EI	+0.119		+0.52	I	2.9	2
	15	Fn.	WI	+0.116		+0.76	I	3.4	3½
	17	Fn.	WI	+0.143		+0.43	I	3.9	3½
	18	Wy.	WI	+0.097		−0.04	I	2.9	3½
	20	Fn.	WI	+0.079		−0.32	I	---	3
	22	An.	WI	+0.112		+0.44	II	---	2½
	27	Fn.	WI	+0.127		−0.80	0	---	2½
	30	Wy.	WI	+0.103		+0.41	I	3.4	3½
	31	Fn.	WI	+0.094		+0.62	I	2.4	3
Sept.	1	An.	WI	+0.115		+0.21	II	2.1	3
	2	Wy.	WI	+0.081		−0.88	I	2.9	3
	14	Fn.	EI	+0.187		+1.27	I	2.9	3
	15	An.	EI	+0.161		+0.78	II	2.6	3
1915									
Apr.	*8*	*An.*	*EI*	-----	*−0.05*	*+0.37*	*I*	---	*3*
July	9	Fn.	WI	+0.117		----	I	2.9	3½
	13	Fn.	WI	+0.075		----	I	3.9	3½
	14	An.	WI	+0.128		−0.43	I	---	3½
	16	Fn.	WI	+0.133		+0.44	I	3.4	3
	17	An.	WI	+0.080		+0.03	1	---	3½
	21	An.	EI	+0.177		----	0	---	3½
Aug.	12	Fn.	EI	+0.125		+0.99	I	2.9	3
	16	Fn.	EI	+0.145		+1.24	0	---	2½
	17	An.	WI	+0.129		+0.09	I	---	3½
	18	Wy.	WI	+0.158		0.00	0	---	3½
	19	Fn.	WI	+0.116		−0.61	0	---	2½
Sept.	9	Wy.	WI	+0.124		−0.33	I	3.4	3½
	24	Wy.	EI	+0.153		----	I	3.4	3½
	25	Wy.	EI	+0.152		+0.96	I	3.4	3
1916									
Feb.	*3*	*Wy.*	*EI*	-----	*[+2.40]*	*[+2.72]*	*0*	---	*4*
	20	*Fn.*	*WI*	*+0.208*	*0.00*	*+0.20*	*0*	---	*3½*
Aug.	1	Fn.	WI	+0.085		+0.25	I	---	3½
	7	Wy.	EI	+0.151		+0.14	I	2.9	3½
	18	Wy.	EI	+0.109		+0.61	I	3.9	3
	21	Wy.	EI	+0.119		+0.86	I	3.4	3½
	22	Fn.	EI	+0.161		+0.55	I	3.9	3½
Sept.	5	Wy.	WI	+0.121		−0.16	0	---	4
	7	Hd.	WI	+0.113		+0.38	I	2.9	3½
	11	Hd.	WI	+0.148		+0.70	I	2.9	3
	19	Hd.	EI	+0.135		+0.42	I	2.9	2
	20	Wy.	EI	+0.141		+0.63	I	2.9	3
	22	Hd.	EI	+0.126		+0.74	I	3.4	3
	25	Wy.	EI	+0.138		−0.12	I	3.4	3
	26	Hd.	EI	+0.098		+0.37	I	3.4	2½
	28	Wy.	WI	+0.134		−0.46	0	---	3½
Oct.	*26*	*Wy.*	*EI*	*+0.082*	*+0.80*	*+0.78*	*0*	---	*3½*
	27	*Hd.*	*EI*	*+0.141*	*−0.05*	*+0.23*	*0*	---	*2½*
Nov.	*2*	*Hd.*	*EI*	*+0.124*	*−0.22*	*−0.11*	*0*	---	*3*
	3	*Fn.*	*EI*	*+0.182*	*+0.75*	*+0.75*	*0*	---	*3½*
1917									
Mar.	*15*	*Hd.*	*EI*	*+0.153*	*+0.89*	*+0.97*	*0*	---	*3½*
	18	*Fn.*	*EI*	*+0.111*	*+1.46*	*+1.61*	*0*	---	*3*
	21	*Fn.*	*EI*	*+0.110*	*+0.84*	*+0.81*	*0*	---	*3*
	22	*Hd.*	*EI*	*+0.093*	*+1.02*	*+1.23*	*0*	---	*2*
July	30	Wy.	EII	+0.182		+1.08	I	2.9	3
Aug.	3	Fn.	WII	+0.095		+0.92	I	2.4	3
	7	Wy.	WII	+0.092		+1.00	0	---	3½
	10	Wy.	WII	+0.105		+0.09	I	2.9	3
	13	Fn.	WII	+0.119		+1.05	I	2.9	3
	17	Wy.	WII	+0.112		+0.07	I	3.4	3½
	20	Fn.	WII	+0.107		−0.30	I	---	2½
	21	Wy.	WII	+0.157		−0.29	0	---	3½
	25	Wy.	EII	+0.132		+1.68	I	3.4	3½
Sept.	4	Fn.	EII	+0.128		+1.00	I	3.4	3
	11	Fn.	EII	+0.088		−0.13	I	2.4	3
	13	Hd.	EII	+0.142		+0.54	II	3.1	3
	17	Hd.	EII	+0.096		+0.67	I	2.9	2
	18	Wy.	EII	+0.119		+1.13	I	2.9	3
	20	Hd.	WII	+0.132		−0.07	I	2.9	3½

				s	″	″				
1917										
Oct.	1	Hd.	WII	+0.159		+0.25	I	2.9		3½
	2	Fn.	WII	+0.134		+1.61	I	2.9		3
	4	Hd.	WII	+0.118		+0.86	I	2.9		3½
1918										
Mar.	*7*	*Wy.*	*EII*	*+0.144*	*+0.49*	*+0.59*	*0*	---		*3½*
	10	*Hd.*	*WII*	*+0.165*	*+0.03*	*+0.12*	*0*	---		*3½*
	18	*Hd.*	*WII*	*+0.187*	*−0.81*	*−0.23*	*0*	---		*3½*
	25	*Wy.*	*WII*	*+0.214*	*+0.99*	*+0.77*	*0*	---		*3½*
July	15	Wy.	EII	+0.144		+1.02	I	3.4		3½
	22	Wy.	EII	+0.118		+0.91	I	---		3
Aug.	5	Wy.	WII	+0.068		−0.76	I	3.4		3½
	15	Fn.	WII	+0.091		+0.68	I	2.9		3
Mean		1915.08		+0.119		+0.39				
		1915.26								
Corr				−0.081		−0.02				

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h	m	s	°	′	″
18	49	52.560	+59	16	41.34

1912										
June	10	Hd.–Fn.	EII	-----		−0.12	I	---	4	R.
	10	Hd.–Fn.	EII	-----		+0.37	I	---	4	
	11	Hd.–Fn.	EII	-----		−0.20	0	---	---	R.
	11	Hd.–Fn.	EII	-----		+0.27	0	---	---	
	20	Fn.–Hd.	EII	-----		−0.61	0	---	---	R.
	20	Fn.–Hd.	EII	-----		+0.58	I	---	---	
July	2	Fn.–Hd.	EII	-----		−0.30	0	---	---	R.
	2	Fn.–Hd.	EII	-----		−0.08	I	---	---	
	3	Hd.–Fn.	WII	-----		−0.13	I	---	---	R.
	3	Hd.–Fn.	WII	-----		+0.90	I	---	---	
	5	Hd.–Fn.	WII	-----		−0.25	0	---	---	R.
	5	Hd.–Fn.	WII	-----		+0.54	I	---	---	
	6	Fn.–Hd.	WII	-----		−0.05	0	---	---	R.
	6	Fn.–Hd.	WII	-----		+0.29	I	---	---	
	8	Fn.–Hd.	WII	-----		−0.01	0	---	---	R.
	8	Fn.–Hd.	WII	-----		+0.71	0	---	---	
1913										
June	30	Hd.	EII	−0.112		+0.32	I	4.4	2	
July	1	Fn.	EII	−0.083		+0.75	0	5.5	3	
	8	Fn.	WII	−0.077		+1.27	0	5.0	2	
	10	Fn.	WII	−0.065		+0.74	0	---	3	
Aug.	7	R.–Fn.	WII	-----		−0.08	I	---	2	R.
	7	R.–Fn.	WII	-----		+0.38	I	4.4	2	
	11	R.–Fn.	WII	-----		−0.48	I	---	2	R.
	11	R.–Fn.	WII	-----		+0.05	I	3.9	2	
	14	R.–Fn.	WII	-----		−0.50	I	---	2½	R.
	14	R.–Fn.	WII	-----		−0.01	I	3.4	2½	
	16	Fn.–R.	WII	-----		+0.47	0	---	2	R.
	16	Fn.–R.	WII	-----		−0.23	0	5.0	2	
	20	R.–Fn.	EII	-----		−0.07	I	3.4	2	
	23	R.–Fn.	EII	-----		+0.39	I	---	2½	R.
	23	R.–Fn.	EII	-----		+0.27	I	3.9	2	
	25	R.–Fn.	EII	-----		+0.88	I	---	2½	R.
	25	R.–Fn.	EII	-----		−0.61	I	3.4	2	
	26	Fn.–R.	EII	-----		−0.37	0	---	2	R.
	26	Fn.–R.	EII	-----		−0.06	0	5.0	2	
	30	Fn.–R.	EII	-----		+0.15	0	---	2	R.
	30	Fn.–R.	EII	-----		+0.42	0	5.0	2	
Sept.	3	Fn.–R.	EII	-----		−0.45	0	---	2½	R.
	3	Fn.–R.	EII	-----		+0.34	I	4.4	2	
1914										
Aug.	3	Fn.	EI	−0.086		−0.32	0	5.0	2	
	6	Fn.	EI	−0.101		+0.07	0	---	2	
	13	Hd.	WI	−0.039		+0.19	I	3.9	2	
	14	Wy.	WI	−0.045		+0.11	I	---	2½	
Mean		1914.06		−0.076		+0.28				
		1913.41								
Corr				−0.081		−0.32				

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				h	m	s	°	′	″			
1916												
Aug.	14	Wy.	EI	18	50	-----	+38	49	8.78	0	---	2½
	17	Fn.	EI			-----			7.85	0	8.5	2
	24	Wy.	WI			-----			8.74	0	8.0	2
	25	Fn.	WI			-----			8.35	0	8.0	2
Mean		1916.64		18	50	-----	+38	49	8.43			
Corr						-----			−0.27			

Cape 1850, 3710

h	m	s	°	′	″
18	50	20.060	−16	29	13.88

1913										
June	10	R.	WII			20.060			13.88	0	5.5	2½
	17	Fn.	EII			19.992			13.66	0	5.6	3½
	26	Hd.	EII			20.091			13.32	0	---	3
July	7	Hd.	WII			20.029			13.50	0	6.0	3
1914												
June	16	Hd.	EI			20.027			12.93	0	6.5	3½
	17	Wy.	EI			20.048			13.63	0	6.0	3
	23	Hd.	WI			19.977			13.84	0	6.5	3
	29	Fn.	WI			20.003			13.51	0	6.0	3½
Mean		1913.97		18	50	20.028	−16	29	13.53			
Corr						−0.081			−0.11			

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h	m	s	°	′	″
18	50	34.911	+36	51	31.15

1911										
June	21	T.	EII			34.911			31.15	0	---	---
	27	Hd.	WII			34.973			31.15	0	6.0	---
	28	T.	WII			35.018			31.68	0	6.0	---
July	3	Fn.	EII			34.974			31.52	0	6.0	---
1915												
July	2	Hd.	WI			34.893			31.22	0	---	2
	6	Fn.	WI			35.016			31.23	0	6.0	2½
	22	Fn.	EI			34.976			31.85	0	6.0	2
	23	Hd.	EI			34.955			31.47	0	6.0	2
Mean		1913.51		18	50	34.964	+36	51	31.41			
Corr						−0.081			−0.26			

θ Serpentis *pr.*

h	m	s	°	′	″
18	51	44.717	+4	5	9.16

1913										
May	28	R.	WII			+0.069			−0.83	0	5.0	3½
	31	R.	WII			+0.057			−0.19	I	4.4	2½
June	12	Hd.	EII			+0 074			+0.32	I	4.9	3
	13	Fn.	EII			+0.069			+0.05	0	4.8	3½
1914												
June	30	Hd.	WI			+0.108			+0.24	0	---	2½
July	8	Fn.	WI			+0.075			−0.41	0	5.0	2
	18	Hd.	EI			+0.079			−0.14	I	4.4	3
	19	Hd.	EI			+0.049			+0.28	I	---	2
Mean		1913.98				+0.072			−0.08			
Corr						−0.081			−0.19			

Bradley 2375

h	m	s	°	′	″
18	52	14.583	−5	57	49.82

1911										
June	29	Fn.	WII			14.583			49.82	0	4.8	---
	30	Hd.	WII			14.596			49.37	0	5.5	---
July	5	R.	EII			14.526			48.87	0	5.0	---
	6	Fn.	EII			14.629			49.14	0	5.1	2½
1915												
July	8	Hd.	WI			14.620			49.19	I	4.9	2
	13	Fn.	WI			14.626			49.19	0	5.0	3
Aug.	7	An.	EI			14.622			49.04	0	6.0	3½
	10	An.	EI			14.660			49.35	0	5.5	3
Mean		1913.53		18	52	14.608	−5	57	49.25			
Corr						−0.081			−0.16			

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h	m	s	°	′	″
18	52	21.732	−21	13	31.21

1913										
June	4	R.	WII			21.732			31.21	I	4.4	4
	5	Hd.	WII			21.699			31.82	I	3.9	3
	18	R.	EII			21.744			31.32	I	3.9	2
	19	Hd.	EII			21.724			32.37	I	4.9	3
1914												
July	9	Hd.	WI			21.710			31.86	I	3.9	2
	11	Hd.	WI			21.698			31.73	I	---	3
	15	Hd.	WI			21.739			32.10	0	---	3
	21	Hd.	EI			21.786			33.45	I	---	4
	27	Fn.	EI			21.791			32.22	0	---	3½
Mean		1914.05		18	52	21.736	−21	13	32.01			
Corr						−0.081			−0.07			

R Lyræ

			h m s	° ′ ″			
			18 52 35.818	+43 49 37.93			
1911							
July 10	Fn.	WII	−0.032	−0.40	I	3.9	1½
12	R.	WII	+0.032	+0.45	I	---	1½
17	Fn.	EII	+0.006	+0.40	I	3.8	3
18	Hd.	EII	−0.024	−0.08	I	3.9	2
1915							
May 9	Wy.	EI	−0.019	+1.00	I	3.9	2½
31	Wy.	WI	−0.022	+0.75	0	---	2
June 4	An.	WI	−0.020	−0.20	I	4.9	2
9	An.	EI	+0.050	+0.08	I	4.9	3
July 20	Hd.	EI	0.000	----	I	3.9	2
Aug. 15	Wy	EI	−0.025	----	I	3.9	2
Sept. 27	Hd.	EI	−0.030	----	I	3.4	2
1916							
Aug. 6	Hd.	EI	−0.021	----	0	---	2
1917							
Sept. 3	Hd.	EII	+0.019	----	I	3.9	2
1918							
Feb. 10	*Wy.*	*WII*	*−0.109*	----	*0*	---	*3*
Mean------	1914.53		−0.007	+0.25			
	1913.47						
Corr------			−0.081	−0.28			

Bradley 2379

			h m s	° ′ ″			
1911							
July 14	Hd.	WII	18 52 45.086	+2 24 59.35	0	6.0	2
15	R.	WII	45.017	59.41	0	5.5	1
19	R.	EII	45.058	58.99	0	5.5	2½
22	R.	EII	45.110	59.95	0	4.5	3½
1915							
June 12	An.	WI	45.015	59.41	0	6.0	2½
17	Fn.	WI	45.049	59.24	0	5.5	2½
24	Fn.	EI	45.047	59.35	0	6.0	2
28	Wy.	EI	45.051	59.62	I	5.4	2½
Mean------	1913.51		18 52 45.054	+2 24 59.42			
Corr------			−0.081	−0.18			

Bradley 2385

			h m s	° ′ ″			
1911							
June 8	Fn.	WII	18 54 39.051	+13 47 6.90	0	6.7	--
9	Hd.	WII	39.060	6.88	0	6.5	--
18	R.	EII	39.086	6.00	0	---	--
20	Hd.	EII	39.064	6.27	0	---	--
1915							
June 18	Hd.	WI	39.046	5.93	0	7.0	2
19	Wy.	WI	39.074	5.85	0	7.0	2½
22	Wy.	EI	39.073	6.44	0	6.2	2½
July 24	An.	EI	39.048	6.22	0	6.0	2½
Mean------	1913.47		18 54 39.063	+13 47 6.31			
Corr------			−0.081	−0.22			

υ Draconis

			h m s	° ′ ″			
1913							
June 6	Fn.	WII	18 55 30.36	+71 10 37.96	0	5.5	2½
9	Hd.	WII	30.20	38.42	I	4.9	3
17	Fn.	EII	30.35	37.87	0	5.4	3
July 1	Fn.	EII	30.22	38.55	0	5.6	3
1914							
June 13	Wy.	EI	30.21	38.26	0	---	2
16	Hd.	EI	30.22	38.34	0	5.5	3
23	Hd.	WI	30.22	38.40	0	5.5	2½
29	Fn.	WI	30.18	38.84	0	5.5	3
Mean------	1913.96		18 55 30.245	+71 10 38.33			
Corr------			−0.081	−0.34			

υ Draconis s. p.

			h m s	° ′ ″			
1912							
Oct. 26	R.	EII	18 55 29.99	+71 10 37.28	0	---	2½
29	R.	EII	30.14	36.86	0	---	5
Nov. 9	Fn.	WII	30.17	37.34	0	5.0	3½
Dec. 22	R.	WII	30.28	37.10	0	---	4
1913							
Dec. 11	Hd.	EI	30.38	36.35	0	6.0	3½
13	R.	EI	30.12	37.46	0	5.5	4
18	Hd.	WI	30.25	36.91	0	---	3½
19	Fn.	WI	30.28	37.46	0	---	4
Mean------	1913.41		18 55 30.201	+71 10 37.10			
Corr------			−0.081	+0.59			

ε Aquilæ

			h m s	° ′ ″			
			18 55 32.230	+14 56 43.21			
1913							
June 10	R.	WII	+0.063	−0.51	I	3.4	2
26	Hd.	EII	+0.062	+0.12	I	---	2
30	Hd.	EII	+0.034	+0.20	I	3.9	2
July 8	Fn.	WII	+0.067	+0.79	0	4.5	2
1914							
July 17	Hd.	WI	+0.062	+0.37	I	---	2
18	Hd.	EI	+0.076	+0.28	I	4.4	2
20	Fn.	EI	+0.029	+0.06	I	4.4	2½
Aug. 13	Hd.	WI	+0.023	+0.37	I	3.4	2
Mean------	1914.02		+0.052	+0.21			
Corr------			−0.081	−0.22			

γ Lyræ

			h m s	° ′ ″			
			18 55 34.590	+32 33 55.97			
			s	″			
1911							
July 24	Fn.	EII	+0.021	+0.07	I	3.0	2½
25	Hd.	EII	−0.014	+0.01	I	2.7	3
26	R.	WII	+0.019	----	0	---	2½
28	Hd.	WII	+0.057	+0.29	I	2.9	2
31	Fn.	WII	+0.026	−0.61	I	3.3	2
Aug. 1	Hd.	WII	+0.063	+0.24	I	3.9	2
6	R.	WII	+0.018	−0.45	II	2.6	1
7	Fn.	WII	+0.014	+0.14	I	3.3	2
8	R.	EII	+0.055	−0.27	I	1.9	1
10	R.	EII	+0.065	−0.31	I	2.9	1½
15	R.	EII	+0.034	----	I	---	2½
16	Fn.	EII	+0.017	+0.37	I	3.0	2
17	R.	EII	−0.002	−0.30	0	---	2
18	Fn.	EII	+0.039	+0.28	I	2.9	2
19	R.	EII	+0.021	----	II	2.6	1
21	Fn.	EII	+0.056	−0.24	I	3.1	1½
22	R.	EII	+0.023	+0.09	I	2.9	1
Sept. 1	Fn.	WII	+0.033	+0.04	I	3.3	1½
2	R.	WII	+0.080	−0.17	II	2.6	1½
19	Hd.	WII	+0.049	+0.42	I	2.9	2
22	Hd.	WII	+0.022	−0.05	I	2.7	2
1912							
Feb. 15	*Hd.*	*EII*	*+0.014*	*+0.27*	*+0.27*	*0*	--- *2*
22	*Hd.*	*WII*	*−0.027*	*+0.38*	*+0.38*	*0*	--- *3*
Mar. 13	*Hd.*	*EII*	-----	*+0.46*	*+0.45*	*0*	--- --
18	*Hd.*	*EII*	*−0.005*	*−0.05*	*−0.06*	*0*	--- *2½*
19	*R.*	*EII*	-----	*+0.46*	*+0.46*	*0*	--- --
22	*R.*	*EII*	-----	*+0.35*	*+0.35*	*0*	--- --
25	*Hd.*	*WII*	*+0.051*	*+0.29*	*+0.28*	*0*	--- *2*
Apr. 2	*R.*	*WII*	*+0.035*	----	----	*0*	--- --
5	*R.*	*EII*	*+0.020*	----	----	*0*	--- --
7	*Fn.*	*WII*	*+0.027*	----	----	*0*	--- *3*
July 25	Fn.	WII	+0.021		+0.25	I	3.1 2½
26	R.	WII	+0.061		−0.23	I	2.4 3½
27	Fn.	WII	+0.036		−0.28	I	2.7 1½
Aug. 5	Fn.	EII	+0.052		+0.47	I	2.9 2
7	Fn.	EII	+0.071		+0.46	I	--- 3
10	R.	EII	+0.024		----	I	--- 3½
12	Fn.	EII	+0.048		+0.63	I	2.5 2
30	Fn.	WII	+0.017		+0.30	0	--- 2

				s	"	"			
1912									
Sept.	4	Hd.	EII	−0.004		----	0	---	2
	5	Fn.	EII	+0.040		−0.07	I	2.7	1½
	30	Hd.	EII	+0.047		----	I	2.9	--
Oct.	1	Hd.	EII	+0.006		----	I	2.9	3
1913									
Jan.	*21*	*Fn.*	*EII*	*+0.007*	*+0.64*	*+0.64*	*0*	---	*3*
Feb.	*4*	*Fn.*	*WII*	*+0.051*	*−0.09*	*−0.07*	*0*	---	*3½*
	9	*Fn.*	*WII*	*+0.036*	*−0.10*	*−0.10*	*0*	---	*2½*
	11	*Fn.*	*WII*	*−0.030*	*−1.11*	*−1.09*	*0*	---	*3½*
	14	*Hd.*	*WII*	*+0.046*	*−0.38*	*−0.36*	*0*	---	*3½*
	17	*Hd.*	*EII*	*+0.067*	*+0.09*	*+0.10*	*0*	---	*3*
	18	*Fn.*	*EII*	*+0.083*	*+0.86*	*+0.87*	*0*	---	*3*
	24	*Hd.*	*EII*	*+0.125*	*−1.05*	*−1.05*	*0*	---	*3½*
Mar.	*2*	*Fn.*	*EII*	*+0.051*	*−0.33*	*−0.32*	*0*	---	*3*
	6	*Fn.*	*EII*	*+0.044*	*−0.11*	*−0.10*	*0*	---	*2½*
May	24	R.	WII	+0.029		+0.03	I	3.4	2
June	24	Fn.	EII	+0.033		−0.25	I	3.9	2
July	3	R.	EII	+0.019		----	I	3.4	1½
	4	Hd.	EII	+0.024		+0.26	I	---	2
	5	Fn.	EII	−0.011		+0.65	0	---	3
	10	Fn.	WII	+0.066		+0.60	I	---	1½
	11	Hd.	WII	+0.031		+1.02	I	3.9	2
	12	Fn.	WII	+0.029		+0.18	I	2.9	2½
	14	Fn.	WII	+0.028		+0.37	I	2.9	2
1914									
Feb.	*3*	*Hd.*	*EI*	*+0.025*	*−0.14*	*−0.14*	*0*	---	*3*
	8	*Fn.*	*EI*	*+0.039*	*+1.05*	*+1.06*	*0*	---	*3½*
	20	*Hd.*	*WI*	*+0.023*	*−0.35*	*−0.34*	*0*	---	*3*
	25	*Fn.*	*EI*	*+0.152*	*+0.52*	*+0.54*	*0*	---	*3½*
Mar.	*9*	*Wy.*	*WI*	*+0.063*	*−0.89*	*−0.89*	*0*	---	--
July	16	Fn.	WI	+0.043		+0.01	I	2.9	3
	27	Fn.	EI	−0.009		+0.17	0	---	2½
	28	Hd.	EI	+0.034		+0.42	I	2.9	2
	31	Fn.	EI	−0.002		+0.55	I	---	2
Aug.	3	Fn.	EI	+0.042		−0.21	I	3.4	1½
	4	Wy.	EI	+0.001		+0.06	I	3.9	3
	6	Fn.	EI	+0.019		+0.41	I	3.9	2
	7	Hd.	EI	+0.022		+0.01	I	3.4	2
	8	Wy.	EI	+0.016		−0.28	I	3.9	2½
	14	Wy.	WI	+0.025		+0.13	I	---	2
	15	Fn.	WI	+0.011		+0.02	I	3.4	3
	17	Fn.	WI	+0.003		+0.78	I	3.4	2
	18	Wy.	WI	+0.034		+0.20	II	3.1	2½
	20	Fn.	WI	+0.043		−0.28	0	---	2
	22	An.	WI	-----		+0.71	II	2.1	2
	27	Fn.	WI	+0.022		+0.38	I	---	1½
	30	Wy.	WI	+0.030		+0.69	I	3.4	2½
	31	Fn.	WI	+0.047		+0.45	I	2.9	2
Sept.	1	An.	WI	+0.026		+1.10	II	3.1	1½
	2	Wy.	WI	+0.069		+0.01	I	2.9	3
	8	Wy.	EI	+0.008		−0.36	I	3.4	2
	9	Fn.	EI	+0.034		+0.14	I	2.9	2½
	10	An.	EI	+0.011		−0.26	I	3.4	1½
	14	Fn.	EI	+0.033		+0.18	I	2.9	2
	15	An.	EI	+0.028		----	II	3.1	2
	18	An.	EI	−0.008		+0.52	I	---	1½
1915									
Jan.	*7*	*Wy.*	*EI*	*+0.051*	*−0.34*	*−0.33*	*0*	---	*4*
	8	*An.*	*EI*	*+0.045*	*+0.04*	*+0.05*	*0*	---	*3*
	15	*An.*	*WI*	*+0.017*	*+0.13*	*+0.15*	*0*	---	*3*
	25	*An.*	*EI*	*+0.095*	*+0.42*	*+0.44*	*0*	---	*3½*
	28	*Wy.*	*EI*	*+0.061*	*+0.17*	*+0.19*	*0*	---	*3½*
July	9	Fn.	WI	+0.038		+0.53	I	3.4	2½
	13	Fn.	WI	+0.035		+0.68	I	3.9	3
	14	An.	WI	+0.034		+0.68	I	---	2½
	16	Fn.	WI	+0.022		+0.44	0	---	2
	17	An.	WI	+0.053		+0.69	I	---	2½
	20	Hd.	EI	+0.041		+0.36	I	3.4	2
	26	Fn.	EI	+0.049		+0.49	I	3.9	3
	27	Hd.	EI	+0.050		+0.14	I	3.4	2
Aug.	5	Fn.	EI	+0.003		+0.61	I	3.4	2½
	7	An.	EI	+0.053		+1.12	I	---	2
	9	Fn.	EI	+0.036		+0.31	I	3.9	2
	10	An.	EI	+0.046		+0.80	I	---	1½
	12	Fn.	EI	+0.037		+0.22	I	3.4	2
	13	An.	EI	+0.025		+0.48	I	4.4	3
	15	Wy.	EI	+0.032		−0.27	I	3.9	2½
	16	Fn.	EI	+0.008		+0.15	0	---	1½
1915									
Aug.	17	An.	WI	+0.022		+0.46	0	---	3
	18	Wy.	WI	+0.037		+0.30	I	3.4	2½
	19	Fn.	WI	+0.059		+0.40	0	---	2
Sept.	9	Wy.	WI	+0.057		+0.38	I	3.9	3
	25	Wy.	EI	+0.009		+0.01	I	3.9	2½
	27	Hd.	EI	+0.020		----	I	2.9	2
Oct.	4	Wy.	WI	+0.046		----	I	2.9	3½
1916									
Jan.	*13*	*Wy.*	*EI*	*+0.185*	*+0.47*	*+0.50*	*0*	---	*3*
	20	*Hd.*	*EI*	-----	*−0.32*	*−0.29*	*0*	---	*2½*
	23	*Hd.*	*EI*	*+0.058*	*−0.10*	*−0.07*	*0*	---	*3*
Feb.	*2*	*Hd.*	*EI*	*+0.035*	*−0.07*	*−0.04*	*0*	---	*3*
	3	*Wy.*	*EI*	-----	*−0.43*	*−0.41*	*0*	---	*3½*
	6	*Wy.*	*EI*	*+0.118*	----	----	*0*	---	*4*
	9	*Fn.*	*WI*	*−0.004*	*+0.36*	*+0.36*	*0*	---	*3½*
	20	*Fn.*	*WI*	*+0.031*	*−0.31*	*−0.30*	*0*	---	*3*
July	20	Hd.	EI	+0.038		+0.10	I	2.9	2
Aug.	1	Fn.	WI	+0.059		+0.41	I	3.4	2½
	6	Hd.	EI	+0.003		----	0	---	2
	7	Wy.	EI	−0.005		+0.07	I	3.4	2
	8	Fn.	EI	+0.043		+0.60	I	3.9	2½
	14	Wy.	EI	+0.020		+0.32	0	---	2½
	17	Fn.	EI	+0.003		+0.13	I	3.9	2½
	18	Wy.	EI	+0.036		+0.88	I	3.9	2
	21	Wy.	EI	+0.024		+0.76	I	3.4	3
	22	Fn.	EI	+0.032		−0.62	I	3.9	2½
	24	Wy.	WI	+0.054		+0.34	I	3.9	2
	25	Fn.	WI	+0.039		+0.31	I	2.9	2
	28	Wy.	WI	+0.032		+0.52	I	3.4	2½
Sept.	1	Fn.	WI	+0.027		−0.25	I	3.4	2½
	5	Wy.	WI	+0.053		−1.00	I	3.4	2½
	7	Hd.	WI	+0.039		−0.32	I	---	3
	11	Hd.	WI	+0.040		+0.02	I	2.9	2
	19	Hd.	EI	−0.008		----	I	2.9	2
	20	Wy.	EI	+0.023		+0.08	I	3.4	2
	22	Hd.	EI	+0.028		−0.11	I	2.9	2
	25	Wy.	EI	+0.033		+0.23	I	3.4	2
	26	Hd.	EI	+0.034		+0.16	II	3.1	2
Oct.	*26*	*Wy.*	*EI*	*−0.023*	*+0.31*	*+0.31*	*0*	---	*3*
	27	*Hd.*	*EI*	*+0.042*	*−0.01*	*0.00*	*I*	---	*2*
Nov.	*2*	*Hd.*	*EI*	*+0.005*	*+0.26*	*+0.26*	*0*	---	*2*
	3	*Fn.*	*EI*	*+0.025*	*−0.22*	*−0.22*	*0*	---	*2*
	7	*Wy.*	*EI*	*+0.030*	*−0.10*	*−0.09*	*0*	---	*3*
	16	*Wy.*	*WI*	*−0.024*	*−0.16*	*−0.13*	*0*	---	*3½*
	27	*Wy.*	*WI*	*+0.042*	*−0.21*	*−0.19*	*0*	---	*3½*
Dec.	*5*	*Hd.*	*EI*	*+0.064*	----	----	*0*	---	*3*
	7	*Fn.*	*EI*	*+0.051*	*+0.66*	*+0.68*	*0*	---	*3½*
	8	*Hd.*	*EI*	*+0.039*	*−0.44*	*−0.41*	*0*	---	*3*
1917									
Jan.	*10*	*Wy.*	*EI*	*+0.063*	*−1.37*	*−1.35*	*0*	---	*3½*
Mar.	*21*	*Fn.*	*EI*	*+0.059*	----	----	*0*	---	*2*
July	30	Wy.	EII	+0.011		−0.29	I	2.9	2½
Aug.	3	Fn.	WII	+0.034		+0.14	I	3.4	2½
	7	Wy.	WII	+0.039		+0.77	0	---	2½
	10	Wy.	WII	+0.045		+0.26	I	3.4	2
	13	Fn.	WII	+0.034		+0.64	I	3.4	2
	17	Wy.	WII	+0.063		+0.63	I	3.9	2½
	20	Fn.	WII	+0.068		+0.49	I	---	1½
	21	Wy.	WII	+0.055		+0.22	I	3.9	2
	25	Wy.	EII	+0.044		+0.51	I	3.4	2½
Sept.	4	Fn.	EII	+0.050		+0.03	I	3.4	2
	11	Fn.	EII	+0.029		−0.32	I	3.4	1½
	13	Hd.	EII	+0.026		+0.67	I	3.4	2
	17	Hd.	EII	+0.039		−0.05	I	2.9	2
	18	Wy.	EII	+0.017		+0.30	I	2.9	2
	20	Hd.	WII	+0.024		+0.48	I	3.4	3
Oct.	2	Fn.	WII	+0.004		----	I	3.4	2
	4	Hd.	WII	+0.042		+0.50	I	3.4	2
	26	*Fn.*	*EII*	*+0.045*	*−0.25*	*−0.24*	*0*	---	*3½*
Nov.	*2*	*Fn.*	*EII*	*+0.045*	*−0.35*	*−0.34*	*0*	---	*3*
Dec.	*20*	*Hd.*	*EII*	*+0.084*	*+0.42*	*+0.45*	*0*	---	*3*
1918									
Feb.	*3*	*Hd.*	*WII*	*+0.108*	*+0.30*	*+0.34*	*0*	---	*3*
	10	*Wy.*	*WII*	*+0.003*	*+0.07*	*+0.09*	*0*	---	*3*
Mar.	*7*	*Wy.*	*EII*	*+0.032*	*−0.08*	*−0.08*	*0*	---	*3*
	17	*Wy.*	*WII*	*+0.016*	*+0.27*	*+0.25*	*0*	---	*3½*
	18	*Hd.*	*WII*	*+0.038*	*+0.48*	*+0.51*	*0*	---	*3*
	25	*Wy.*	*WII*	*+0.079*	*+0.72*	*+0.71*	*0*	---	*3*

				s	"	"			
1918									
Mar. *27*	*Fn.*	*WII*		*+0.076*	*+0.24*	*+0.25*	*0*	---	*3*
July 22	Wy.	EII		+0.054		+0.19	I	---	3
25	Fn.	EII		+0.019		----	I	3.4	2½
Aug. 1	Fn.	WII		+0.033		−0.47	I	3.9	2
5	Wy.	WII		+0.044		+0.02	I	3.4	2½
15	Fn.	WII		+0.043		+0.16	I	3.4	2
Mean		1914.94		+0.032		+0.22			
		1915.01							
Corr				−0.081		−0.26			

Groombridge 2727

			h	m	s	°	′	″			
1911											
June 21	T.	EII	18	55	49.863	+40	33	17.91	0	6.5	--
27	Hd.	WII			49.956			18.90	0	7.0	--
28	T.	WII			49.969			18.92	0	6.5	--
July 3	Fn.	EII			49.884			-----	0	---	--
1915											
July 2	Hd.	WI			49.871			18.66	0	7.0	2
6	Fn.	WI			49.871			19.17	0	6.5	2½
22	Fn.	EI			49.880			19.23	0	6.0	2
23	Hd.	EI			49.888			18.85	0	6.5	2
Mean		1913.51	18	55	49.898	+40	33	18.81			
		1913.80									
Corr					−0.081			−0.27			

ζ Sagittarii [1]

			h	m	s	°	′	″			
			18	56	53.147	−30	0	34.81			
1913											
May 28	R.	WII			+0.111			−0.13	I	2.9	3½
31	R.	WII			+0.120			+0.44	I	3.4	4½
June 12	Hd.	EII			+0.112			+0.45	I	4.4	4
18	R.	EII			+0.085			+0.69	I	3.4	2
1914											
June 17	Wy.	EI			+0.072			−0.50	I	3.4	3
30	Hd.	WI			+0.013			+0.71	0	---	3
July 8	Fn.	WI			+0.074			+0.47	I	2.9	3
19	Hd.	EI			+0.086			+0.19	I	2.9	3
Mean		1913.97			+0.084			+0.29			
Corr					−0.081			+0.03			

Lalande 35530 [2]

			h	m	s	°	′	″			
1911											
June 29	Fn.	WII	18	58	48.409	−23	1	-----	0	---	--
30	Hd.	WII			48.472			44.99	0	7.5	--
July 5	R.	EII			48.526			46.33	0	7.0	--
6	Fn.	EII			48.488			45.86	0	7.7	2
1915											
May 9	Wy.	EI			48.439			45.44	0	7.5	3½
31	Wy.	WI			48.461			45.95	0	7.0	3
June 4	An.	WI			48.439			46.23	0	7.0	3
9	An.	EI			48.441			44.69	0	8.0	3½
Mean		1913.45	18	58	48.459	−23	1	45.64			
		1913.73									
Corr					−0.081			−0.05			

Weisse$_2$ XVIII 1757

			h	m	s	°	′	″			
1911											
July 15	R.	WII	18	58	57.269	+19	31	46.22	0	7.0	1
17	Fn.	EII			57.281			45.92	0	6.6	3
18	Hd.	EII			57.235			46.02	0	---	2
27	Fn.	WII			57.277			45.18	0	6.0	2
1915											
June 12	An.	WI			57.307			46.08	0	6.0	2½
17	Fn.	WI			57.248			45.82	0	6.0	2
22	Wy.	EI			57.299			45.72	0	6.2	2½
24	Fn.	EI			57.304			45.02	0	6.0	2
Mean		1913.51	18	58	57.278	+19	31	45.75			
Corr					−0.081			−0.23			

[1] Double; mean observed.

ζ Aquilæ

			h	m	s	°	′	″			
			19	1	16.395	+13	43	44.16			
1911					s			"			
July 24	Fn.	EII			+0.041			----	I	2.8	2½
26	R.	WII			+0.034			----	I	---	2
28	Hd.	WII			+0.069			----	I	2.6	2
Aug. 7	Fn.	WII			+0.107			+1.06	I	3.0	2
15	R.	EII			+0.089			----	II	---	2½
16	Fn.	EII			+0.022			+0.20	I	2.5	2
17	R.	EII			+0.067			−0.81	I	---	2
18	Fn.	EII			+0.028			+0.30	I	2.7	2
19	R.	EII			+0.069			−0.70	II	2.6	1
21	Fn.	EII			+0.069			+0.35	I	2.8	2
22	R.	EII			+0.048			−0.72	I	2.9	1
Sept. 1	Fn.	WII			+0.045			+0.20	I	3.2	1½
2	R.	WII			+0.053			−0.20	I	---	2
19	Hd.	WII			+0.070			+0.47	I	2.4	2
22	Hd.	WII			+0.050			+0.18	I	2.9	2
Oct. 4	Hd.	EII			+0.049			----	0	---	3½
1912											
Feb. *22*	*Hd.*	*WII*			*+0.057*	*−0.04*		*−0.03*	*0*	---	*3½*
29	*Hd.*	*WII*			*+0.057*	*+0.47*		*+0.50*	*0*	---	*2*
Mar. *10*	*Hd.*	*EII*			-----	*−0.31*		*−0.30*	*0*	---	*2*
13	*Hd.*	*EII*			-----	*−0.01*		*−0.06*	*0*	---	--
18	*Hd.*	*EII*			*+0.020*	*−0.18*		*−0.21*	*0*	---	*2½*
19	*R.*	*EII*			-----	*−0.42*		*−0.42*	*0*	---	--
22	*R.*	*EII*			-----	*+0.12*		*+0.11*	*0*	---	--
25	*Hd.*	*WII*			*+0.056*	*+0.32*		*+0.29*	*0*	---	--
29	*R.*	*WII*			*+0.047*	*+0.19*		*+0.22*	*0*	---	*5*
Apr. *4*	*Hd.*	*EII*			*+0.005*	*−0.42*		*−0.39*	*0*	---	*2*
5	*R.*	*EII*			*+0.038*	*+0.33*		*+0.38*	*0*	---	--
July 25	Fn.	WII			+0.035			+0.51	I	---	2½
26	R.	WII			+0.022			+0.40	II	2.6	3
27	Fn.	WII			+0.050			+0.41	I	2.6	2
Aug. 3	R.	EII			+0.043			+0.39	I	4.4	1
5	Fn.	EII			+0.053			+0.05	I	3.0	2
7	Fn.	EII			+0.048			−0.37	I	2.8	2½
10	R.	EII			+0.042			+0.36	I	---	3½
12	Fn.	EII			+0.034			−0.19	I	2.5	2
15	R.	WII			+0.061			+0.45	I	3.4	3
23	Fn.	WII			+0.043			+0.68	I	2.7	2
30	Fn.	WII			+0.056			+0.43	0	---	2
Sept. 5	Fn.	EII			+0.037			+0.30	I	---	1½
1913											
Feb. *11*	*Fn.*	*WII*			*+0.024*	*−0.49*		*−0.41*	*0*	---	*3½*
12	*R.*	*WII*			*+0.108*	*−0.13*		*−0.08*	*0*	---	*3½*
17	*Hd.*	*EII*			*+0.104*	*−0.33*		*−0.29*	*0*	---	*3½*
18	*Fn.*	*EII*			*+0.092*	*+1.09*		*+1.12*	*0*	---	*3*
Mar. *2*	*Fn.*	*EII*			*+0.075*	*−0.03*		*−0.01*	*0*	---	*3*
6	*Fn.*	*EII*			*+0.055*	*+0.25*		*+0.30*	*0*	---	*2½*
May 24	R.	WII			+0.050			−0.23	I	2.9	3
July 5	Fn.	EII			+0.074			+0.02	I	---	3½
12	Fn.	WII			+0.026			----	I	2.7	2½
1914											
Feb. *20*	*Hd.*	*WI*			*+0.016*	*−0.31*		*−0.26*	*0*	---	*2*
July 16	Fn.	WI			+0.073			----	I	2.9	3
20	Fn.	EI			+0.072			----	I	2.9	2½
27	Fn.	EI			+0.057			----	0	---	2½
28	Hd.	EI			+0.041			----	I	2.9	2
Aug. 4	Wy.	EI			+0.062			----	I	---	--
6	Fn.	EI			+0.072			----	I	---	2
7	Hd.	EI			+0.042			+0.22	I	2.9	2
8	Wy	EI			+0.048			+0.36	I	3.9	3
13	Hd.	WI			+0.055			----	II	2.6	2
17	Fn.	WI			+0.067			----	I	2.9	2
20	Fn.	WI			+0.078			----	0	---	--
22	An.	WI			+0.042			+0.56	II	2.6	2
27	Fn.	WI			+0.060			−0.22	I	---	2
30	Wy.	WI			+0.059			−0.14	I	2.9	2½
Sept. 1	An.	WI			+0.033			+0.42	I	2.4	2
2	Wy.	WI			+0.058			+0.13	I	2.9	3
9	Fn.	EI			+0.007			+0.55	I	2.9	2
10	An.	EI			+0.021			−0.60	I	---	1½
14	Fn.	EI			+0.023			+0.39	0	---	--
15	An.	EI			+0.036			−0.04	II	3.1	2
18	An.	EI			+0.031			+0.21	I	---	1½

[2] Double; s. fol. component observed.

				s	"	"				
1914										
Sept.	29	Wy.	WI	+0.038		[+1.63][1]	I	2.9	2½	
	30	An.	WI	+0.063		+0.19	II	3.1	3	
Oct.	1	Wy.	WI	-----		+0.01	I	2.9	2½	
1915										
Jan.	*7*	*Wy.*	*EI*	*+0.104*	*+0.26*	*+0.31*	*0*	---	*3½*	
	14	*Fn.*	*WI*	*+0.003*	*−0.14*	*−0.14*	*0*	---	*3½*	
	15	*An.*	*WI*	*+0.053*	----	----	*0*	---	*3½*	
	28	*Wy.*	*EI*	*+0.114*	*+0.26*	*+0.31*	*0*	---	*3½*	
July	2	Hd.	WI	+0.009		----	I	3.9	2	
	6	Fn.	WI	+0.021		----	I	2.9	2	
	8	Hd.	WI	+0.043		----	I	2.9	2	
	9	Fn.	WI	+0.054		−0.53	I	2.9	2½	
	13	Fn.	WI	+0.023		----	I	3.4	3	
	14	An.	WI	+0.076		----	II	3.6	3	
	20	Hd.	EI	+0.049		----	I	3.9	2	
	23	Hd.	EI	+0.050		----	I	2.9	2	
	24	An.	EI	+0.020		----	II	3.6	2	
	26	Fn.	EI	+0.124		----	I	---	3½	
Aug.	10	An.	EI	+0.062		+0.24	II	3.6	2	
	12	Fn.	EI	+0.047		−0.36	I	2.9	2½	
	13	An.	EI	+0.034		+0.12	I	---	3½	
	15	Wy.	EI	+0.036		+0.27	I	3.9	2	
	17	An.	WI	+0.025		−0.58	I	---	3	
	18	Wy.	WI	+0.037		+0.08	I	3.4	3	
	19	Fn.	WI	+0.044		−0.04	0	---	2	
	21	Wy.	WI	+0.024		−1.09	I	3.4	3	
	25	Wy.	WI	+0.042		+0.04	I	3.4	2½	
	26	Hd.	WI	+0.040		+0.44	I	3.4	2	
Sept.	9	Wy.	WI	+0.033		−0.76	I	3.4	2½	
	13	Hd.	EI	+0.020		−0.13	I	2.9	2	
	14	Wy.	EI	+0.041		+0.29	I	3.4	2	
	16	Wy.	EI	+0.045		+0.58	I	3.4	2	
	25	Wy.	EI	+0.039		+0.21	I	3.4	3	
1916										
Jan.	*20*	*Hd.*	*EI*	-----	*−0.69*	*−0.56*	*0*	---	*3*	
	23	*Hd.*	*EI*	*+0.111*	*−0.40*	*−0.29*	*0*	---	*3*	
Feb.	*2*	*Hd.*	*EI*	*+0.088*	*−1.19*	*−1.04*	*0*	---	*3*	
	3	*Wy.*	*EI*	-----	*−0.42*	*−0.35*	*0*	---	*3½*	
	6	*Wy.*	*EI*	*+0.133*	*+0.14*	*+0.16*	*0*	---	*4*	
	9	*Fn.*	*WI*	*+0.060*	*−0.58*	*−0.56*	*0*	---	*3½*	
	20	*Fn.*	*WI*	*+0.075*	*−1.83*	*−1.82*	*0*	---	*3*	
July	20	Hd.	EI	+0.055		−0.31	I	3.4	2	
Aug.	1	Fn.	WI	+0.060		+0.34	I	2.9	2½	
	7	Wy.	EI	+0.054		−0.33	I	3.4	2½	
	8	Fn.	EI	+0.008		+0.57	I	3.4	2½	
	14	Wy.	EI	+0.036		−0.35	I	---	3	
	17	Fn.	EI	+0.034		----	I	3.4	2½	
	21	Wy.	EI	+0.046		0.00	I	3.4	3	
	22	Fn.	EI	+0.031		+0.30	I	3.4	2½	
	25	Fn.	WI	+0.036		+0.44	I	2.9	2	
	28	Wy.	WI	+0.071		----	I	2.9	2½	
Sept.	5	Wy.	WI	+0.054		−0.98	0	---	2½	
	7	Hd.	WI	+0.049		+0.32	0	---	3	
	11	Hd.	WI	+0.051		0.00	I	2.9	2	
Oct.	*26*	*Wy.*	*EI*	*+0.045*	*−0.18*	*−0.20*	*0*	---	*3*	
	27	*Hd.*	*EI*	*+0.072*	*−0.32*	*−0.27*	*I*	---	*2*	
Nov.	*2*	*Hd.*	*EI*	*+0.010*	*−0.59*	*−0.57*	*I*	---	*2*	
	3	*Fn.*	*EI*	*+0.055*	*−0.27*	*−0.28*	*0*	---	*2*	
	7	*Wy.*	*EI*	*+0.057*	*−0.12*	*−0.07*	*0*	---	*3*	
	9	*Wy.*	*EI*	*+0.027*	*−0.12*	*−0.06*	*0*	---	*3½*	
	16	*Wy.*	*WI*	*+0.052*	*+0.16*	*+0.30*	*0*	---	*3½*	
	27	*Wy.*	*WI*	*+0.079*	*−0.07*	*0.00*	*0*	---	*3½*	
Dec.	*7*	*Fn.*	*EI*	*+0.028*	*−0.51*	*−0.42*	*0*	---	*3½*	
1917										
Mar.	*15*	*Hd.*	*EI*	*+0.059*	*−0.45*	*−0.44*	*0*	---	*3*	
July	30	Wy.	EII	−0.001		−0.09	I	3.4	2½	
Aug.	3	Fn.	WII	+0.047		+0.50	I	3.4	2½	
	7	Wy.	WII	+0.054		−0.09	I	3.9	3	
	10	Wy.	WII	+0.056		+0.09	I	2.9	2½	
	13	Fn.	WII	+0.063		+0.42	I	2.9	2	
	17	Wy.	WII	+0.058		+0.03	I	3.4	2½	
	20	Fn.	WII	+0.023		−0.16	I	---	2	
	21	Wy.	WII	+0.067		+0.03	I	3.4	3	
	25	Wy.	EII	+0.019		+0.78	I	2.9	2½	
Sept.	4	Fn.	EII	+0.030		+0.62	I	3.4	2½	
Oct.	*26*	*Fn.*	*EII*	*+0.027*	*+0.01*	*+0.06*	*0*	---	*3*	
Nov.	*2*	*Fn.*	*EII*	*+0.061*	*−0.47*	*−0.43*	*0*	---	*3*	

[1] One bisection only.

				s	"	"				
1918										
Feb.	*3*	*Hd.*	*WII*	*+0.144*	*−0.32*	*−0.19*	*0*	---	*3*	
	10	*Wy.*	*WII*	*+0.046*	*−0.94*	*−0.85*	*0*	---	*3½*	
	17	*Fn.*	*EII*	*+0.010*	*−0.08*	*−0.06*	*0*	---	*3*	
	20	*Fn.*	*EII*	*[+0.197][2]*	*+0.07*	*+0.13*	*0*	---	*4*	
Mar.	*7*	*Wy.*	*EII*	*+0.039*	*+0.34*	*+0.34*	*0*	---	*3*	
	10	*Hd.*	*WII*	*+0.063*	*−0.73*	*−0.71*	*0*	---	*3*	
	17	*Wy.*	*WII*	*+0.047*	*+0.02*	*−0.04*	*0*	---	*3½*	
	18	*Hd.*	*WII*	*+0.063*	*−0.40*	*−0.29*	*0*	---	*3*	
July	22	Wy.	EII	+0.058		+0.58	I	3.9	3	
	25	Fn.	EII	+0.042		+0.25	I	2.9	2½	
Aug.	1	Fn.	WII	+0.037		−0.37	I	2.9	2½	
	5	Wy.	WII	+0.066		−0.57	I	3.4	2½	
	15	Fn.	WII	+0.035		+0.15	I	2.9	2	
Mean			1914.86	+0.047		+0.08				
			1914.99							
Corr				−0.081		−0.22				

τ Sagittarii

				h	m	s	°	′	″			
1911												
July	1	R.	WII	19	1	19.364	−27	48	10.89	0	3.5	---
	10	Fn.	WII			19.371			10.23	I	3.2	3
	19	R.	EII			19.368			9.89	0	---	---
	20	Fn.	EII			19.345			-----	---	---	---
	22	R.	EII			19.425			8.87	0	---	4
1915												
June	18	Hd.	WI			19.365			11.73	I	---	3
	19	Wy.	WI			19.386			11.02	I	3.9	3½
	28	Wy.	EI			19.328			10.58	I	3.9	3
July	22	Fn.	EI			19.352			11.05	0	---	3½
Mean			1913.29	19	1	19.367	−27	48	10.53			
			1913.51									
Corr						−0.081			0.00			

λ Aquilæ

				h	m	s	°	′	″			
				19	1	28.358	− 5	1	5.25			
1913												
June	4	R.	WII			+0.054			−0.75	I	3.9	3½
	5	Hd.	WII			+0.081			−0.69	I	2.9	3
	13	Fn.	EII			+0.050			−0.60	I	4.4	3½
	17	Fn.	EII			+0.052			−0.51	I	3.3	3
1914												
June	13	Wy.	EI			+0.066			−0.17	I	---	2½
	16	Hd.	EI			+0.077			−0.61	I	4.4	3
	23	Hd.	WI			+0.061			−0.87	I	3.9	3
	29	Fn.	WI			+0.064			−1.01	I	3.4	3
Mean			1913.96			+0.063			−0.65			
Corr						−0.081			−0.16			

Groombridge 2759

				h	m	s	°	′	″			
1913												
July	3	R.	EII	19	1	55.449	+45	47	5.86	0	7.0	2
	4	Hd.	EII			55.450			5.09	0	---	2
	7	Hd.	WII			55.491			5.36	0	7.5	2
	14	Fn.	WII			55.529			5.87	0	7.0	2
1914												
July	31	Fn.	EI			55.454			5.38	0	---	---
Aug.	3	Fn.	EI			55.524			4.01	0	7.0	2
	14	Wy.	WI			55.456			4.70	0	---	3
	15	Fn.	WI			55.506			5.48	0	7.0	2½
Mean			1914.06	19	1	55.482	+45	47	5.22			
Corr						−0.081			−0.28			

Lalande 35719

				h	m	s	°	′	″			
1911												
June	21	T.	EII	19	1	55.660	− 1	29	4.72	0	7.5	---
	27	Hd.	WII			55.641			4.44	0	7.5	---
	28	T.	WII			55.653			4.44	0	7.0	---
July	3	Fn.	EII			55.590			4.53	0	---	---

[2] Star faint; some contacts missed.

				h	m	s	°	′	″			
1915												
July	16	Fn.	WI			55.650			4.96	0	---	2½
	17	An.	WI			55.644			4.65	0	7.5	3
	27	Hd.	EI			55.642			4.36	0	---	2
Aug.	9	Fn.	EI			55.644			4.38	0	7.5	3
Mean		1913.52		19	1	55.640	− 1	29	4.56			
Corr						−0.081			−0.18			

Bradley 2416

				h	m	s	°	′	″			
1911												
July	31	Fn.	WII	19	2	53.822	+53	15	29.67	0	5.7	2
Aug.	1	Hd.	WII			53.867			30.08	0	5.5	2
	8	R.	EII			53.900			29.23	0	5.0	1
	10	R.	EII			53.905			28.98	0	5.0	1
1915												
July	13	Fn.	WI			53.917			29.47	0	5.5	2½
	14	An.	WI			53.896			30.13	0	5.5	2½
	23	Hd.	EI			53.888			29.71	0	6.0	2
	24	An.	EI			53.834			29.44	0	5.5	1½
Mean		1913.57		19	2	53.879	+53	15	29.59			
Corr						−0.081			−0.30			

Piazzi XVIII 318

				h	m	s	°	′	″			
1913												
June	26	Hd.	EII	19	3	3.456	+28	29	12.49	0	---	3
July	1	Hd.	EII			3.475			11.84	0	6.0	3
	11	Hd.	WII			3.480			12.18	0	---	2
	12	Fn.	WII			3.457			12.15	0	5.6	2½
1914												
Aug.	4	Wy.	EI			3.438			11.76	0	6.5	3
	6	Fn.	EI			3.508			12.25	0	6.0	2
	17	Fn.	WI			3.501			12.44	0	6.0	2
	18	Wy.	WI			3.465			12.12	I	5.4	3
Mean		1914.06		19	3	3.472	+28	29	12.15			
Corr						−0.081			−0.25			

Schwerd 1139

				h	m	s	°	′	″			
1911												
July	12	R.	WII	19	3	37.55	+82	14	33.15	0	6.5	2½
	14	Hd.	WII			37.65			32.34	0	6.5	2
	17	Fn.	EII			37.35			33.01	0	---	3
	18	Hd.	EII			37.82			33.58	0	---	2½
1915												
July	2	Hd.	WI			37.63			33.01	0	7.5	2½
	6	Fn.	WI			37.54			32.78	0	7.0	3
Aug.	5	Fn.	EI			37.83			32.63	0	7.0	3
	7	An.	EI			37.53			33.60	0	6.5	3
Mean		1913.54		19	3	37.612	+82	14	33.01			
						−0.081			−0.38			

Schwerd 1139 s. p.

				h	m	s	°	′	″			
1912												
Dec.	13	Fn.	EII	19	3	37.72	+82	14	32.33	0	7.2	3½
	16	Fn.	EII			37.71			31.92	0	7.0	2½
	22	R.	WII			37.82			31.21	0	7.5	2½
	28	R.	WII			37.79			32.21	0	7.0	4
1913												
Nov.	4	Fn.	EI			37.94			32.32	0	6.5	3½
	10	Hd.	WI			37.59			32.77	0	6.5	3½
	20	Hd.	WI			37.72			32.49	0	7.0	3½
Dec.	3	R.	EI			37.50			32.73	0	6.0	3
Mean		1913.42		19	3	37.724	+82	14	32.25			
Corr						−0.081			+0.46			

17 Lyræ

				h	m	s	°	′	″			
1911												
July	24	Fn.	EII	19	4	1.363	+32	21	33.48	0	6.1	3
	25	Hd.	EII			1.370			33.63	0	5.5	3
	27	Fn.	WII			[1.285][1]			33.80	0	---	2
	28	Hd.	WII			1.378			33.93	0	5.7	2
1915												
June	9	An.	EI			1.434			34.41	I	5.4	3
	12	An.	WI			1.402			33.99	I	5.4	2
	17	Fn.	WI			1.403			33.01	0	5.5	2
	22	Wy.	EI			1.440			33.87	0	5.5	2½
Mean		1913.79		19	4	1.399	+32	21	33.76			
		1913.51										
Corr						−0.081			−0.25			

ι Lyræ

				h	m	s	°	′	″			
				19	4	5.433	+35	57	30.78			
1913												
June	9	Hd.	WII			−0.065			+0.20	0	5.5	3
	10	R.	WII			−0.050			−0.15	I	4.9	2
	12	Hd.	EII			−0.028			+0.11	0	---	2
	19	Hd.	EII			−0.009			+0.19	0	---	2½
1914												
July	11	Hd.	WI			−0.036			+0.10	0	---	2
	16	Fn.	WI			−0.003			+0.35	0	5.0	2½
	27	Fn.	EI			−0.062			+0.31	0	5.5	2
	28	Hd.	EI			−0.040			+0.34	0	5.5	2
Oct.	20	Hd.	EI			−0.012			----	0	6.0	2
1915												
July	20	Hd.	EI			−0.017			----	0	6.0	2
Aug.	15	Wy.	EI			−0.034			----	0	6.0	2
Mean		1914.36				−0.032			+0.18			
		1914.00										
Corr						−0.081			−0.26			

π Sagittarii

				h	m	s	°	′	″			
				19	4	24.728	−21	10	2.54			
1911												
July	15	R.	WII			+0.090			+0.32	I	3.9	1½
	19	R.	EII			+0.047			−0.20	I	2.4	2
	20	Fn.	EII			+0.097			+0.12	I	---	--
	26	R.	WII			+0.083			+0.46	0	---	3
1915												
July	8	Hd.	WI			+0.083			+0.47	I	2.9	3
	9	Fn.	WI			+0.084			−0.88	I	3.4	3
Aug.	10	An.	EI			+0.054			+0.26	I	---	2½
	12	Fn.	EI			+0.092			−0.44	I	3.9	3
Mean		1913.56				+0.079			+0.01			
Corr						−0.081			−0.07			

Bradley 2410

				h	m	s	°	′	″			
1913												
June	24	Fn.	EII	19	4	35.438	+5	55	51.45	0	5.0	2½
July	3	R.	EII			35.400			51.90	0	5.5	1½
	7	Hd.	WII			35.463			51.67	0	5.8	3
	8	Fn.	WII			35.473			51.71	0	5.5	2
1914												
June	17	Wy.	EI			35.451			51.17	I	5.4	3
	30	Hd.	WI			35.458			51.94	0	---	2
July	8	Fn.	WI			35.456			51.65	0	5.5	2
	20	Fn.	EI			35.442			51.28	0	5.5	2½
Mean		1914.01		19	4	35.448	+5	55	51.60			
Corr						−0.081			−0.19			

B. D.+38° 3441

				h	m	s	°	′	″			
1916												
July	20	Hd.	EI	19	4	-----	+38	47	7.08	0	8.0	2
Aug.	17	Fn.	EI			-----			6.39	0	8.0	2½
	25	Fn.	WI			-----			7.16	0	8.0	2
	28	Wy.	WI			-----			7.29	0	8.0	2
Mean		1916.62		19	4	-----	+38	47	6.98			
Corr						-----			−0.27			

[1] Broken transit; poorly observed.

Piazzi XIX 7

				h	m	s	°	′	″			
1911												
June 29	Fn.		WII	19	7	41.192	−26	3	30.58	0	6.0	--
30	Hd.		WII			41.198			29.48	0	5.5	3
July 5	R.		EII			41.187			30.71	0	6.5	--
6	Fn.		EII			41.220			30.23	0	6.2	3
1915												
June 18	Hd.		WI			41.169			30.46	0	---	2
19	Wy.		WI			41.240			30.49	0	7.0	3½
22	Wy.		EI			41.180			29.26	0	6.5	3
24	Fn.		EI			41.177			29.72	0	6.5	2
Mean		1913.48		19	7	41.195	−26	3	30.12			
Corr						−0.081			−0.02			

Bradley 2415

				h	m	s	°	′	″			
1913												
June 4	R.		WII	19	7	47.888	−8	5	27.06	0	6.0	4
5	Hd.		WII			47.851			26.63	0	6.0	2
13	Fn.		EII			47.854			26.08	0	5.3	3½
17	Fn.		EII			47.815			26.23	0	6.0	3
1914												
June 13	Wy.		EI			47.899			25.89	0	---	2
16	Hd.		EI			47.875			25.94	0	6.5	3
23	Hd.		WI			47.867			26.09	0	6.0	2½
29	Fn.		WI			47.861			26.23	0	6.0	3
Mean		1913.96		19	7	47.864	−8	5	26.27			
Corr						−0.081			−0.15			

Paris 25568

				h	m	s	°	′	″			
1911												
June 21	T.		EII	19	8	13.689	−12	26	3.35	0	6.0	--
27	Hd.		WII			13.746			[0.11][1]	0	5.5	3½
28	T.		WII			13.724			2.62	0	6.0	--
July 3	Fn.		EII			13.704			[6.11][1]	0	---	--
1915												
June 4	An.		WI			13.750			3.16	0	7.0	3
9	An.		EI			13.778			3.67	0	---	3
17	Fn.		WI			13.748			3.34	0	5.5	3
28	Wy.		EI			13.740			2.55	I	4.9	2½
Mean		1913.47		19	8	13.735	−12	26	3.12			
		1914.13										
Corr						−0.081			−0.13			

19 Lyræ

				h	m	s	°	′	″			
1915												
May 9	Wy.		EI	19	8	18.909	+31	8	-----	0	5.8	2½
31	Wy.		WI			18.894			-----	0	5.7	2
July 20	Hd.		EI			18.924			-----	0	6.5	2
Aug. 9	Fn.		EI			18.871			-----	0	6.5	3
12	Fn.		EI			18.946			-----	0	6.0	2½
15	Wy.		EI			18.888			-----	0	6.5	2
18	Wy.		WI			18.899			-----	0	6.5	2
26	Hd.		WI			18.891			-----	0	---	2
1916												
Aug. 21	Wy.		EI			18.868			-----	0	6.5	3
28	Wy.		WI			18.908			-----	0	6.0	2
Sept. 1	Fn.		WI			18.886			-----	0	6.5	2½
7	Hd.		WI			18.911			-----	0	---	2
19	Hd.		EI			18.868			-----	0	---	2
22	Hd.		EI			18.883			-----	0	6.0	2
25	Wy.		EI			18.885			-----	0	7.0	2
1917												
Aug. 25	Wy.		EII			18.901			-----	0	6.0	2
Mean		1916.18		19	8	18.896	+31	8	-----			
Corr						−0.081			-----			

Bradley 2433

				h	m	s	°	′	″			
1912												
July 25	Fn.		WII	19	9	58.444	+56	42	21.01	0	---	2½
26	R.		WII			58.431			20.92	0	5.0	3
Aug. 3	R.		EII			58.466			21.15	0	5.5	1
7	Fn.		EII			58.460			21.23	0	5.7	2
1914												
July 9	Hd.		WI			58.508			21.19	I	4.9	2
11	Hd.		WI			58.502			20.95	0	---	2½
18	Hd.		EI			58.553			20.09	0	4.9	2
19	Hd.		EI			58.556			20.33	I	4.9	2
Mean		1913.56		19	9	58.490	+56	42	20.86			
Corr						−0.081			−0.31			

ψ Sagittarii

	h	m	s	°	′	″
	19	10	1.376	−25	24	45.17

1912									
July 27	Fn.	WII	+0.051		+0.22	0	5.3	3	
Aug. 12	Fn.	EII	+0.085		+0.15	0	---	3½	
23	Fn.	WII	+0.023		−0.26	0	---	3½	
Sept. 5	Fn.	EII	+0.059		+0.16	0	---	2	
1914									
July 20	Fn.	EI	+0.087		+0.08	0	5.0	3	
28	Hd.	EI	+0.063		+0.69	0	5.5	3	
Aug. 13	Hd.	WI	+0.085		+0.11	I	4.9	3	
14	Wy.	WI	+0.119		−0.50	0	---	3½	
Mean	1913.61		+0.072		+0.08				
Corr			−0.081		−0.03				

B. D.+38° 3490

				h	m	s	°	′	″			
1916												
Aug. 8	Fn.		EI	19	10	-----	+38	59	26.75	0	5.0	2
17	Fn.		EI			-----			26.28	0	5.0	3
25	Fn.		WI			-----			27.04	0	5.0	2
28	Wy.		WI			-----			26.61	I	4.4	2½
Mean		1916.64		19	10	-----	+38	59	26.67			
Corr						-----			−0.27			

λ Ursæ Minoris

	h	m	s	°	′	″
	19	10	57.77	+89	0	21.81

				s	″	″				
1911										
Oct.	*16*	*Hd.*	*WII*	----	*+0.83*	*+0.86*	*0*	---	*2*	*R.*
	16	*Hd.*	*WII*	*−1.62*	*+0.46*	*+0.49*	*0*	---	*2*	
	23	*R.*	*WII*	*−0.11*	*+1.12*	*+1.09*	*0*	---	*2*	
	24	*Fn.*	*WII*	----	*[−2.29][2]*	*[−2.26][2]*	*0*	---	--	*R.*
	24	*Fn.*	*WII*	*−0.34*	*[−1.06][2]*	*[−1.03][2]*	*0*	---	--	
	25	*R.*	*WII*	*+1.57*	*−0.25*	*−0.30*	*0*	---	*1*	
	26	*R.*	*WII*	*−0.46*	*+0.31*	*+0.38*	*0*	---	*2*	
1912										
June 10	Hd.–Fn.		EII	----		+0.41	0	---	5	R.
10	Hd.–Fn.		EII	----		+0.93	0	---	5	
11	Hd.–Fn.		EII	----		+0.31	0	---	3	R.
11	Hd.–Fn.		EII	----		+0.81	0	---	3	
20	Fn.–Hd.		EII	----		−0.44	0	---	--	R.
20	Fn.–Hd.		EII	----		+0.69	0	---	--	
July 2	Fn.–Hd.		EII	----		+0.15	0	---	--	R.
2	Fn.–Hd.		EII	----		+0.23	0	---	--	
3	Hd.–Fn.		WII	----		+0.59	0	---	2	R.
3	Hd.–Fn.		WII	----		+0.33	0	---	2	
5	Hd.–Fn.		WII	----		−0.15	0	---	--	R.
5	Hd.–Fn.		WII	----		+0.55	0	---	--	
6	Fn.–Hd.		WII	----		+0.69	0	---	--	R.
6	Fn.–Hd.		WII	----		+0.15	0	---	--	
8	Fn.–Hd.		WII	----		+0.23	0	---	--	R.
8	Fn.–Hd.		WII	----		+0.81	0	---	--	
Sept. 30	Hd.		EII	----		+0.27	0	---	2	R.
30	Hd.		EII	+0.60		+0.32	0	---	2	
Oct. 1	Hd.		EII	----		+0.52	0	---	3	R.
1	Hd.		EII	−0.47		+0.69	0	---	3	
2	Hd.		EII	----		+0.91	0	---	3	R.
2	Hd.		EII	+1.73		+0.28	0	---	3	
8	R.		WII	−1.33		−0.19	0	---	--	

[1] Micrometer readings doubtful.

[2] Observed too far from meridian.

				s	"	"				
1912										
Oct.	9	R.	WII	----		+0.19	0	---	3	R.
	9	R.	WII	−1.54		+0.17	0	---	3	
	10	*Hd.*	*WII*	----	*+0.58*	*+0.53*	*0*	---	*3*	*R.*
	10	*Hd.*	*WII*	*+0.28*	*−0.01*	*−0.06*	*0*	---	*3*	
	15	*Hd.*	*WII*	*+1.24*	*−0.07*	*−0.04*	*0*	---	*2*	
	16	*Hd.*	*WII*	----	*+0.76*	*+0.79*	*0*	---	*1*	*R.*
	16	*Hd.*	*WII*	*+0.73*	*+0.44*	*+0.47*	*0*	---	*1*	
	21	*Hd.*	*EII*	*−2.00*	*+0.63*	*+0.60*	*0*	---	*3*	
	26	*Hd.*	*EII*	*+1.40*	*+0.36*	*+0.40*	*0*	---	*3*	
	28	*Hd.*	*EII*	*−0.75*	*+0.76*	*+0.76*	*0*	---	*3*	
1913										
Aug.	7	R.–Fn.	WII	----		+0.40	0	---	2	R.
	7	R. Fn.	WII	----		+0.32	0	6.0	2	
	11	R.–Fn.	WII	----		+0.58	0	---	2	R.
	11	R.–Fn.	WII	----		+1.29	0	6.0	2	
	14	R.–Fn.	WII	----		+0.97	0	---	2	R.
	14	R.–Fn.	WII	----		−0.32	0	6.0	2	
	15	Fn.–R.	WII	----		+1.05	0	---	2½	R.
	15	Fn.–R.	WII	----		+0.87	0	---	2½	
	16	Fn.–R.	WII	----		+1.17	0	---	2½	R.
	16	Fn.–R.	WII	----		−0.25	0	6.8	2½	
	20	R.–Fn.	EII	----		+0.62	0	---	2	R.
	20	R.–Fn.	EII	----		−0.13	0	6.0	2	
	21	R.–Fn.	EII	----		+0.90	0	---	2½	R.
	21	R.–Fn.	EII	----		+0.99	0	6.0	2½	
	23	R.–Fn.	EII	----		+0.54	0	---	2	R.
	23	R.–Fn.	EII	----		+0.52	0	---	1½	
	25	R.–Fn.	EII	----		−0.29	0	6.0	2½	
	26	Fn.–R.	EII	----		+0.28	0	---	3	R.
	26	Fn.–R.	EII	----		+0.77	0	6.5	3	
	30	Fn.–R.	EII	----		+0.41	0	---	2½	R.
	30	Fn.–R.	EII	----		+0.82	0	6.5	2½	
Sept.	4	Fn.–R.	EII	----		+0.17	0	---	3	R.
	4	Fn.–R.	EII	----		+0.56	0	6.5	3	
1914										
Oct.	2	An.	WI	+1.75		+0.31	0	---	3	
	5	Hd.	WI	----		+1.55	0	---	3	R.
	5	Hd.	WI	−0.27		+0.54	0	6.5	3	
	9	An.	WI	+3.26		+0.61	0	---	3	
	10	Wy.	WI	−0.14		+0.63	0	---	3	
	12	*An.*	*WI*	*+2.54*	*+1.47*	*+1.40*	*0*	---	--	
	17	*Wy.*	*EI*	*−1.02*	*−0.03*	*−0.14*	*0*	---	*3½*	
	19	*An.*	*EI*	*−0.19*	*+1.10*	*+1.15*	*0*	---	*3½*	
	20	*Hd.*	*EI*	*+1.34*	*−0.65*	*−0.66*	*0*	---	*2*	
	22	*An*	*EI*	*−3.56*	*+0.63*	*+0.68*	*0*	---	*3*	
	28	*Wy.*	*EI*	*−0.28*	*+0.35*	*+0.28*	*0*	---	*3*	
1915										
Oct.	6	Fn.	WI	−1.20		+0.39	0	---	2½	
	9	Fn.	WI	−0.43		----	0	---	3½	
	11	Fn.	WI	----		+0.96	0	---	2½	R.
	11	Fn.	WI	−0.86		−0.28	0	7.0	2½	
	12	Wy.	WI	----		+1.29	0	---	3	R.
	12	Wy.	WI	+1.34		+0.74	0	6.5	3	
	13	*Hd.*	*WI*	----	*+1.32*	*+1.29*	*0*	---	*3*	*R.*
	13	*Hd.*	*WI*	*−0.72*	*+0.69*	*+0.66*	*0*	---	*3*	
	21	*Hd.*	*WI*	----	*+1.30*	*+1.36*	*0*	---	*3*	*R.*
	21	*Hd.*	*WI*	*+1.56*	*+0.61*	*+0.67*	*0*	---	*3*	
	23	*Fn.*	*WI*	*+0.62*	*+0.31*	*+0.26*	*0*	---	*2½*	
1916										
Sept.	28	Wy.	WI	+1.61		+0.43	0	---	3½	
Oct.	5	Hd.	WI	+0.43		+0.26	0	6.5	2½	
	10	Fn.	WI	+2.84		+0.15	0	7.0	2½	
	12	*Hd.*	*WI*	*−0.39*	*−0.01*	*−0.21*	*0*	---	*2*	
	17	*Fn.*	*WI*	*−1.42*	*−0.25*	*−0.28*	*0*	---	*3½*	
Mean			1914.76	+0.46		+0.42				
			1913.83							
Corr				−0.08		−0.41				

λ Ursæ Minoris s. p.

h	m	s	°	′	″
19	10	57.87	+89	0	21.81

				s	"	"				
1911										
Oct.	18	Hd.	WII	----		−0.46	0	---	3½	R.
	18	Hd.	WII	+0.56		−0.42	0	---	3½	
	23	Fn.	WII	----		+0.86	0	---	--	R.
	23	Fn.	WII	−1.36		−1.71	0	---	--	
1911										
Oct.	24	R.	WII	+1.08		−0.55	0	---	2½	
	25	R	WII	----		[+2.15][1]	0	6.5	3	R.
	25	R.	WII	−0.03		+0.71	0	---	3	
	26	R.	WII	----		−0.82	0	6.5	1	R.
	26	R.	WII	−0.01		−0.25	0	---	1	
	29	R.	EII	----		[−0.63][1]	0	---	2½	R.
	29	R.	EII	+1.31		[−0.91][1]	0	---	2½	
1912										
Oct.	9	R.	WII	+0.21		−0.22	0	---	--	
	14	Hd.	WII	----		−0.26	0	---	3	R.
	14	Hd.	WII	−1.23		+0.88	0	---	3	
	16	Hd.	WII	----		−0.30	0	---	3	R.
	16	Hd.	WII	−0.48		−0.39	0	---	3	
	17	Hd.	WII	----		+0.10	0	---	2	R.
	17	Hd.	WII	+0.91		+0.03	0	---	2	
	20	Hd.	EII	----		−0.28	0	---	3½	R.
	20	Hd.	EII	−0.37		−0.21	0	---	3½	
	25	Hd.	EII	----		−0.27	0	---	3½	R.
	25	Hd.	EII	+0.23		−0.17	0	---	3½	
	26	R.	EII	----		+0.15	0	---	2	R.
	26	R.	EII	−0.71		−0.72	0	6.5	2	
	27	Hd.	EII	----		+0.19	0	---	3	R.
	27	Hd.	EII	+1.67		−0.20	0	---	3	
1913										
Mar.	*31*	*Hd.*	*EII*	*−0.49*	*+0.46*	*+0.56*	*0*	*6.5*	*3*	
1914										
Oct.	10	Hd.	WI	----		−0.65	0	---	3½	R.
	10	Hd.	WI	+0.85		−0.34	0	---	3	
	11	Wy.	WI	+1.50		−0.53	0	---	3½	
	18	Wy.	EI	−0.63		−0.04	0	6.5	3	
	19	An.	EI	----		−0.42	0	---	3½	R.
	19	An.	EI	+1.68		−0.27	0	7.5	3	
	20	Hd.	EI	−3.47		−0.36	0	---	2½	
	28	Wy.	EI	+2.66		−0.06	0	---	3	
1915										
Feb.	10	Hd.	EI	----		−0.42	0	---	2	R.
	17	Fn.–Wy.	EI	----		+0.21	0	---	3	R.
	18	Hd.–An.	EI	----		−0.02	0	6.0	3	
	19	Fn.–Wy.	EI	----		+0.31	0	6.5	2½	
	20	An.–Hd.	WI	----		−0.95	0	---	2½	R.
	21	An.–Hd.	WI	----		−0.32	0	7.5	3	
	22	Wy.–Fn.	WI	----		−1.05	0	---	3	R.
Mar.	1	Wy.–Fn.	WI	----		−0.04	0	7.0	3	
	2	Wy.–Fn.	WI	----		−1.18	0	---	--	R.
	29	An.	EI	−0.31		+0.30	0	7.5	3½	
Apr.	*4*	*Wy.*	*EI*	*+0.76*	*+0.87*	*+0.71*	*0*	---	*3*	
	6	*Hd.*	*EI*	*−1.31*	----	----	*0*	---	*2*	
Oct.	*8*	*Wy.*	*WI*	*−6.07*	*−0.83*	*−0.78*	*0*	---	*4*	
	9	*Hd.*	*WI*	*−1.90*	*−0.44*	*−0.36*	*0*	---	*3*	
	11	Hd.	WI	---		−1.45	0	---	3	R.
	11	Hd.	WI	1.79		−0.69	0	7.5	3	
	12	Fn.	WI	+3.00		−0.30	0	7.0	3	
	21	Fn.	WI	--		−1.09	0	---	3	R.
	21	Fn.	WI	−1.48		+0.48	0	7.0	3	
	22	Hd.	WI	--		−1.70	0	---	--	R.
	22	Hd.	WI	−2.46		−0.43	0	7.0	3	
1916										
Oct.	10	Fn.	WI	+1.71		+0.18	0	7.0	3	
	12	Fn.	WI	+2.08		−0.16	0	---	3½	
Mean			1913.85	+0.19		−0.18				
			1914.09							
Corr				−0.08		+0.42				

Bradley 2425

				h	m	s	°	′	″			
1911												
July	1	R.	WII	19	11	24.652	+21	4	27.08	0	6.0	--
	10	Fn.	WII			24.707			27.03	0	5.8	2
	17	Fn.	EII			24.729			27.23	0	6.5	2½
	18	Hd.	EII			24.659			27.12	0	5.5	2½
1915												
July	2	Hd.	WI			24.670			27.57	0	---	2½
	6	Fn.	WI			24.695			27.24	0	6.0	2
	23	Hd.	EI			24.695			27.09	0	6.0	2
	24	An.	EI			24.690			27.07	0	5.5	2
Mean			1913.53	19	11	24.687	+21	4	27.18			
Corr						−0.081			−0.23			

[1] Observed too far from meridian.

22 Aquilæ

				h	m	s	°	′	″			
1913				19	12	3.788	+4	40	31.75	0	5.5	2
May 31	R.	WII				3.831			31.89	0	6.0	3
June 4	R.	WII				3.829			31.42	0	6.0	2
12	Hd.	EII				3.792			31.31	0	5.5	1½
18	R.	EII										
1914						3.801			31.72	0	---	2
June 13	Wy.	EI				3.833			31.57	0	6.0	3
16	Hd.	EI				3.790			31.52	0	6.0	3
23	Hd.	WI				3.801			32.09	0	6.0	3
29	Fn.	WI										
Mean		1913.95		19	12	3.808	+4	40	31.66			
Corr						−0.081			−0.19			

d Sagittarii

		h	m	s	°	′	″			
		19	12	22.176	−19	6	49.51			
1911										
June 29	Fn.	WII		+0.084			+0.16	0	4.9	--
30	Hd.	WII		+0.023			+0.49	0	5.5	3
July 5	R.	EII		+0.091			+0.64	0	4.5	--
6	Fn.	EII		+0.100			−0.03	0	4.9	3
1915										
July 8	Hd.	WI		+0.090			−0.16	0	6.0	3
9	Fn.	WI		+0.061			−0.69	0	5.5	3
27	Hd.	EI		+0.057			+0.50	0	6.5	2½
31	An.	EI		+0.089			+0.83	0	5.5	3½
Mean	1913.52			+0.074			+0.22			
Corr				−0.081			−0.09			

δ Draconis

		h	m	s	°	′	″			
		19	12	32.354	+67	30	12.08			
				s		″	″			
1911										
July 12	R.	WII		+0.08			----	I	---	3½
14	Hd.	WII		+0.02			+0.47	I	2.9	--
15	R.	WII		0.00			+0.41	I	---	1
20	Fn.	EII		+0.10			----	I	2.9	--
22	R.	EII		−0.05			+0.15	I	2.4	1½
24	Fn.	EII		0.00			+0.99	I	3.3	3
1915										
June 18	Hd.	WI		−0.01			+0.43	I	3.9	2
19	Wy.	WI		−0.01			[+2.20]	I	3.9	2
22	Wy.	EI		+0.01			+0.58	II	3.1	2½
24	Fn.	EI		+0.10			+0.95	I	2.9	2
1916										
Aug. 7	Wy.	EI		−0.02			+0.18	I	3.9	3
21	Wy.	EI		+0.01			+0.46	I	3.9	3
22	Fn.	EI		−0.07			+0.33	I	3.4	2
Sept. 5	Wy.	WI		+0.02			+0.80	I	3.4	2½
7	Hd.	WI		−0.08			−0.16	I	2.9	2
11	Hd.	WI		−0.05			−0.13	I	2.9	2
19	Hd.	EI		−0.10			−0.15	I	2.9	2
20	Wy.	EI		−0.06			+0.36	I	3.4	2
22	Hd.	EI		−0.05			+1.06	I	2.9	2
25	Wy.	EI		−0.02			−0.01	I	2.9	2
26	Hd.	EI		−0.03			+0.10	II	3.1	2
Oct. 27	*Hd.*	*EI*		*−0.08*	*+0.19*		*+0.13*	*I*	---	*2*
Nov. 2	*Hd.*	*EI*		*−0.13*	*+0.71*		*+0.70*	*0*	---	*2*
3	*Fn.*	*EI*		*+0.01*	*+0.68*		*+0.70*	*0*	---	*2*
7	*Wy.*	*EI*		*−0.10*	*+0.78*		*+0.72*	*0*	---	*3*
27	*Wy.*	*WI*		*−0.03*	*+0.73*		*+0.65*	*0*	---	*3½*
Dec. 8	*Hd.*	*EI*		*−0.18*	*0.00*		*−0.15*	*0*	---	*3*
26	*Fn.*	*WI*		*−0.03*	----		----	*0*	---	*3½*
1917										
Jan. 10	*Wy.*	*EI*		*−0.06*	*+1.06*		*+1.00*	*0*	---	*3½*
Mar. 18	*Fn.*	*EI*		*−0.09*	*+0.71*		*+0.67*	*0*	---	*2½*
July 30	Wy.	EII		−0.02			+0.68	I	2.9	2
Aug. 20	Fn.	WII		−0.07			+0.35	I	3.4	2
21	Wy.	WII		+0.05			+0.12	I	3.4	2
25	Wy.	EII		−0.06			+0.66	I	3.4	2
Sept. 4	Fn.	EII		+0.01			+1.23	I	3.4	2
Nov. 20	*Fn.*	*WII*		*−0.14*	*+0.20*		*+0.16*	*0*	---	*3*
1918										
Feb. 3	*Hd.*	*WII*		*−0.01*	*+0.57*		*+0.38*	*0*	---	*3*
10	*Wy.*	*WII*		*−0.13*	*−0.12*		*−0.24*	*0*	---	*3½*
14	*Fn.*	*WII*		*−0.04*	*+0.66*		*+0.70*	*0*	---	*3½*
17	*Fn.*	*EII*		*−0.14*	*+0.36*		*+0.30*	*0*	---	*3½*
20	*Fn.*	*EII*		*+0.07*	*−0.11*		*−0.21*	*0*	---	*4*
Mar. 3	*Fn.*	*EII*		*+0.12*	*+0.65*		*+0.59*	*0*	---	*3½*
18	*Hd.*	*WII*		*−0.05*	*+0.73*		*+0.65*	*0*	---	*3½*
Aug. 15	Fn.	WII		−0.05			+0.34	I	2.9	2½
Mean	1915.61			−0.013			+0.42			
	1915.96									
Corr				−0.081			−0.34			

δ Draconis s. p.

	h	m	s	°	′	″
	19	12	32.316	+67	30	12.04

1912							
Dec. 9	Fn.	WII	−0.08	+0.31	0	---	5
12	R.	EII	−0.19	−0.64	I	3.9	2½
13	Fn.	EII	−0.09	−1.37	I	3.7	4
28	R.	WII	+0.11	−0.61	I	2.9	4
1913							
Nov. 20	Hd.	WI	+0.01	+0.07	I	3.9	4
21	Fn.	WI	+0.04	−0.51	0	---	2½
Dec. 3	R.	EI	−0.08	+0.99	I	---	4
5	R.	EI	−0.06	+0.19	I	3.4	2½
1917							
Mar. 9	Fn.	WI	----	+1.08	0	---	3½
19	Fn.	EI	----	−0.90	D	---	3
20	Hd.	EI	----	−0.24	D	---	3½
1918							
Mar. 5	Hd.	EII	----	−0.24	D	---	4
7	Fn.	EII	----	+0.62	D	---	4
18	Wy.	WII	----	−0.31	D	---	4½
25	Fn.	WII	----	+1.07	D	---	4½
Mean	1913.43		−0.042			−0.04	
	1915.46						
Corr			−0.081			+0.67	

θ Lyræ

	h	m	s	°	′	″
	19	13	14.615	+37	58	23.01

1913							
June 6	Fn.	WII	+0.002	−0.28	0	5.0	2
9	Hd.	WII	+0.025	−0.31	I	4.4	3
19	Hd.	EII	+0.047	−0.31	I	4.4	2½
24	Fn.	EII	+0.054	−0.01	0	4.8	2
1914							
Aug. 3	Fn.	EI	+0.025	−0.37	I	---	2
4	Wy.	EI	0.000	+0.26	I	---	3
13	Hd.	WI	+0.020	+0.41	I	3.9	2
14	Wy.	WI	+0.047	−0.04	I	---	2½
1915							
May 9	Wy.	EI	+0.054	----	I	3.9	2½
July 20	Hd.	EI	+0.058	----	I	4.9	2
Aug. 9	Fn.	EI	+0.037	----	0	5.0	3
12	Fn.	EI	+0.087	----	0	5.0	2½
18	Wy.	WI	+0.040	----	I	3.9	2
1916							
Dec. 5	*Hd.*	*EI*	*+0.014*	----	----	*0*	--- *3*
1918							
Aug. 8	Wy.	WII	+0.073		----	0	--- 3
Mean	1914.90		+0.041			−0.08	
	1914.03						
Corr			−0.081			−0.27	

ω Aquilæ

	h	m	s	°	′	″
	19	13	35.524	+11	25	57.06

1911							
June 21	T.	EII	−0.005	−0.34	0	6.0	--
27	Hd.	WII	+0.029	+0.52	0	6.0	3½
28	T.	WII	+0.056	+0.18	0	5.5	--
July 3	Fn.	EII	+0.001	−0.46	0	---	--

				s		″			
1915									
June 9	An.	EI		+0.053		+0.36	I	5.9	3
12	An.	WI		+0.027		+0.03	I	5.4	2½
17	Fn.	WI		+0.050		+0.04	0	5.5	2½
28	Wy.	EI		0.000		+0.43	0	6.0	2½
Mean	1913.47			+0.026		+0.10			
Corr				−0.081		−0.21			

B. D.+38° 3520

			h	m	s	°	′	″			
1916											
Aug. 8	Fn.	EI	19	14	----	+38	57	31.87	0	6.5	2
18	Wy.	EI			----			31.88	0	7.0	2
24	Wy.	WI			----			31.87	0	7.0	2
25	Fn.	WI			----			32.02	0	7.0	2
Mean	1916.63		19	14	----	+38	57	31.91			
Corr					----			−0.27			

κ Cygni

			h	m	s	°	′	″			
			19	15	1.441	+53	12	7.93			
1912											
Sept. 5	Fn.	EII			−0.061			+0.94	I	3.7	2
6	Hd.	EII			−0.058			+0.30	I	3.9	2½
12	R.	WII			+0.008			−0.43	II	2.6	1
14	R.	WII			−0.003			+0.66	II	2.6	1
1914											
July 9	Hd.	WI			+0.030			+0.20	I	3.4	2
11	Hd.	WI			+0.042			+0.61	0	---	3
20	Fn.	EI			−0.045			+0.07	I	3.9	2
27	Fn.	EI			−0.043			+0.01	I	---	3½
Mean	1913.62				−0.016			+0.30			
Corr					−0.081			−0.30			

Bradley 2435

			h	m	s	°	′	″			
1912											
July 26	R.	WII	19	15	44.699	−5	35	4.28	0	5.5	3
Aug. 3	R.	EII			44.712			4.18	0	5.5	1½
10	R.	EII			44.714			3.83	0	---	3½
22	R.	WII			44.647			4.79	0	---	3
1914											
July 17	Hd.	WI			44.708			4.41	0	5.5	3
19	Hd.	EI			44.711			4.16	I	4.9	2
28	Hd.	EI			44.726			3.14	0	5.5	2½
Aug. 13	Hd.	WI			44.721			3.81	0	---	3
Mean	1913.58		19	15	44.705	−5	35	4.08			
Corr					−0.081			−0.16			

Lalande 36478

			h	m	s	°	′	″			
1911											
July 1	R.	WII	19	15	51.107	+37	16	44.15	0	7.0	--
10	Fn.	WII			51.139			43.88	0	6.5	2
19	R.	EII			51.084			42.76	0	6.5	1
20	Fn.	EII			51.116			43.57	0	---	3
1915											
July 6	Fn.	WI			51.109			44.06	0	6.0	2
8	Hd.	WI			51.120			44.04	0	6.5	2
23	Hd.	EI			51.110			44.19	0	6.5	2½
24	An.	EI			51.139			43.96	0	6.0	1½
Mean	1913.53		19	15	51.116	+37	16	43.83			
Corr					−0.081			−0.26			

159 B. Lyræ

			h	m	s	°	′	″			
1915											
May 9	Wy.	EI	19	15	57.566	+40	12	-----	0	6.5	2
July 20	Hd.	EI			57.625			-----	0	7.0	2
Aug. 12	Fn.	EI			57.583			-----	0	7.0	2½
15	Wy.	EI			57.564			-----	0	7.0	2
18	Wy.	WI			57.582			-----	0	7.0	2½
26	Hd.	WI			57.602			-----	0	7.0	2
1916											
Aug. 17	Fn.	EI			57.558			-----	0	7.0	2½
28	Wy.	WI			57.619			-----	0	6.5	2
1916											
Sept. 1	Fn.	WI			57.582			-----	0	7.0	2½
7	Hd.	WI			57.623			-----	0	---	3
22	Hd.	EI			57.596			-----	0	7.0	2
Mean	1916.07		19	15	57.591	+40	12	-----			
Corr					−0.081			-----			

τ Draconis

			h	m	s	°	′	″				
			19	17	17.370	+73	11	19.57				
1911												
July 28	Hd.	WII			−0.14			−0.01	I	4.4	2	
31	Fn.	WII			−0.02			−0.34	0	4.9	2½	
Aug. 8	R.	EII			−0.10			+0.55	0	---	2	
9	Fn.	EII			−0.17			+0.22	0	---	3½	
1912												
June 10	Hd.–Fn.	EII			----			−1.25	0	---	4	R.
10	Hd.–Fn.	EII			----			+0.54	0	---	4	
11	Hd.–Fn.	EII			----			−0.24	0	---	3	R.
11	Hd.–Fn.	EII			----			+0.87	I	---	3	
20	Fn.–Hd.	EII			----			+0.18	I	---	2	R.
20	Fn.–Hd.	EII			----			+0.47	I	---	2	
July 2	Fn.–Hd.	EII			----			−0.31	0	---	2	R.
2	Fn.–Hd.	EII			----			+0.44	I	---	2	
3	Hd.–Fn.	WII			----			+0.19	I	---	2	R.
3	Hd.–Fn.	WII			----			+0.59	I	---	2	
5	Hd.–Fn.	WII			----			−0.03	0	---	2	R.
5	Hd.–Fn.	WII			----			+0.30	I	---	2	
6	Fn.–Hd.	WII			----			+0.03	0	---	2	R.
6	Fn.–Hd.	WII			----			+0.32	I	---	2	
8	Fn.–Hd.	WII			----			+0.05	0	---	2	R.
8	Fn.–Hd.	WII			----			+0.73	0	---	2	
1913												
Aug. 7	R.–Fn.	WII			----			+0.57	I	---	2	R.
7	R.–Fn.	WII			----			−0.12	I	3.4	2	
11	R.–Fn.	WII			----			+0.26	I	---	1½	R.
11	R.–Fn.	WII			----			+0.62	I	3.9	1½	
14	R.–Fn.	WII			----			+0.69	I	---	2	R.
14	R.–Fn.	WII			----			+0.32	I	3.4	2	
15	Fn.–R.	WII			----			+0.43	0	---	2	R.
15	Fn.–R.	WII			----			−0.31	I	3.9	2	
16	Fn.–R.	WII			----			+0.29	0	---	2	R.
16	Fn.–R.	WII			----			−0.55	I	3.9	2	
20	R.–Fn.	EII			----			+0.46	I	---	2½	R.
20	R.–Fn.	EII			----			+0.31	I	4.4	2	
21	R.–Fn.	EII			----			0.00	I	3.9	2	
25	R.–Fn.	EII			----			−0.48	I	2.9	2	
26	Fn.–R.	EII			----			−0.06	0	---	2½	R.
26	Fn.–R.	EII			----			+1.04	0	4.5	2½	
30	Fn.–R.	EII			----			+0.14	0	---	2½	R.
30	Fn.–R.	EII			----			+0.54	I	4.4	2½	
Sept. 4	Fn.–R.	EII			----			−0.42	0	---	2½	R.
4	Fn.–R.	EII			----			+0.39	I	3.9	2	
1915												
June 19	Wy.	WI			−0.01			+0.47	I	3.9	2	
22	Wy.	EI			+0.05			+0.08	I	4.4	2½	
28	Wy.	EI			+0.02			+0.60	I	4.4	2½	
July 2	Hd.	WI			−0.04			+0.78	I	4.9	3	
Mean	1913.53				−0.051			+0.31				
	1913.26											
Corr					−0.081			−0.35				

τ Draconis s. p.

			h	m	s	°	′	″				
			19	17	17.368	+73	11	19.61				
1913												
Jan. 28	R.	EII			−0.02			−0.55	0	---	--	
Feb. 4	Hd.	WII			−0.10			−1.23	0	---	4	
6	R.	WII			−0.08			+0.56	0	---	3½	
23	R.	EII			−0.39			−0.18	I	4.4	2	
1914												
Feb. 9	Fn.	EI			−0.04			−0.53	0	---	4	
11	Hd.	EI			−0.13			+0.22	0	6.0	3½	
16	Fn.	WI			−0.18			−0.83	0	5.0	3½	
17	Wy.	WI			−0.26			−0.64	0	5.0	3	
Mean	1913.62				−0.150			−0.40				
Corr					−0.081			+0.56				

π Draconis

				h	m	s	°	′	″			
1911												
July	12	R.	WII	19	20	12.49	+65	32	29.05	0	5.0	--
	14	Hd.	WII			12.58			28.13	I	4.4	--
	17	Fn.	EII			12.42			27.91	0	---	2½
	18	Hd.	EII			12.55			28.68	I	4.4	2½
1915												
June	4	An.	WI			12.53			28.57	I	4.9	2½
	9	An.	EI			12.59			28.61	II	4.1	3
	12	An.	WI			12.60			28.83	I	5.4	2½
	24	Fn.	EI			12.63			28.80	0	5.0	2
July	23	Hd.	EI			12.63			28.87	I	4.9	2
Mean		1913.72		19	20	12.558	+65	32	28.61			
Corr						−0.081			−0.33			

Brussels 8113

				h	m	s	°	′	″			
1913												
May	28	R.	WII	19	20	16.643	−14	4	33.58	0	6.0	3½
	31	R.	WII			16.614			33.70	0	6.0	5
June	13	Fn.	EII			16.593			33.54	0	---	3½
	17	Fn.	EII			16.608			33.03	0	6.0	3
1914												
July	9	Hd.	WI			16.634			33.23	0	6.0	2
	20	Fn.	EI			16.645			33.36	0	6.0	2½
	22	Fn.	EI			16 674			33.47	0	---	2½
Aug.	13	Hd.	WI			16.622			32.56	0	6.0	2½
Mean		1914.00		19	20	16.629	−14	4	33.31			
Corr						−0.081			−0.12			

Bradley 2456

				h	m	s	°	′	″			
1911												
June	21	T.	EII	19	20	34.683	+29	26	40.87	0	---	4½
	27	Hd.	WII			34.678			41.58	0	6.0	3½
	28	T.	WII			34.697			41.50	0	5.5	--
July	3	Fn.	EII			34.627			41.20	0	5.4	--
1915												
June	17	Fn.	WI			34.679			41.50	0	5.5	2
	18	Hd.	WI			34.656			41.30	0	6.0	2
July	24	An.	EI			34.715			41.59	I	5.9	1½
Aug.	7	An.	EI			34.672			42.11	0	6.0	2
Mean		1913.50		19	20	34.676	+29	26	41.46			
Corr						−0.081			−0.25			

b Aquilæ

				h	m	s	°	′	″			
1912												
July	26	R.	WII	19	20	40.889	+11	45	6.79	0	5.0	3½
Aug.	3	R.	EII			40.884			6.28	0	5.5	2
	12	Fn.	EII			40.879			6.05	0	5.6	2
	23	Fn.	WII			40.889			6.30	0	5.8	2
1914												
July	27	Fn.	EI			40.980			7.70	0	---	3½
	28	Hd.	EI			40.964			7.17	0	6.0	2
Aug.	14	Wy.	WI			40.998			6.96	0	---	3
	15	Fn.	WI			40.972			7.61	0	5.5	2
Mean		1913.60		19	20	40.932	+11	45	6.86			
Corr						−0.081			−0.21			

Bradley 2448

				h	m	s	°	′	″			
1911												
June	29	Fn.	WII	19	20	57.207	−21	57	20.76	0	5.8	--
	30	Hd.	WII			57.183			19.09	0	5.5	3
July	5	R.	EII			57.251			20.04	0	5.5	--
	6	Fn.	EII			57.244			20.01	0	5.9	3
1915												
July	6	Fn.	WI			57.143			20.13	0	6.0	3
	8	Hd.	WI			57.228			20.13	0	6.5	2½
Aug.	9	Fn.	EI			57.255			19.51	0	---	3½
	10	An.	EI			57.209			19.59	0	6.0	2½
Mean		1913.53		19	20	57.215	−21	57	19.91			
Corr						−0.081			−0.06			

δ Aquilæ

				h	m	s	°	′	″			
				19	20	57.707	+ 2	56	5.29			
1911						s			″			
July	27	Fn.	WII			+0.022			----	I	3.5	2
Aug.	1	Hd.	WII			+0.024			+0.41	I	3.9	2
	6	R.	WII			+0.086			+0.16	I	2.4	1
	7	Fn.	WII			+0.046			+0.03	I	3.6	2
	10	R.	EII			+0.077			−0.53	I	3.4	2
	15	R.	EII			+0.035			−0.20	I	2.4	4
	16	Fn.	EII			+0.030			+0.36	I	3.2	2
	17	R.	EII			+0.052			−0.34	I	---	1
	18	Fn.	EII			+0.027			----	I	---	2
	19	R.	EII			+0.081			−0.20	I	3.4	1
	21	Fn.	EII			+0.055			+0.13	I	3.2	2
	22	R.	EII			+0.066			+0.59	I	2.9	1
Sept.	1	Fn.	WII			+0.050			+0.10	I	3.5	1½
	2	R.	WII			+0.085			−0.29	I	2.9	2½
	13	R.	WII			+0.075			−0.09	II	2.1	1½
	18	Fn.	WII			+0.058			−0.08	I	2.9	1½
Oct.	5	Hd.	EII			+0.032			+0.13	I	2.9	3
	6	Hd.	EII			+0.038			−0.14	I	2.9	2
	11	Fn.	WII			+0.092			−0.04	I	3.0	2½
	13	Fn.	WII			+0.088			+0.54	I	2.9	1½
1912												
Feb.	*15*	*Hd.*	*EII*			*+0.072*	*+0.17*		*+0.17*	*0*	---	*3½*
	29	*Hd.*	*WII*			*+0.070*	*+0.59*		*+0.67*	*0*	---	*2*
Mar.	*18*	*Hd.*	*EII*			*+0.065*	*−0.44*		*−0.47*	*0*	---	*2*
	25	*Hd.*	*WII*			*+0.055*	*+0.21*		*+0.18*	*0*	---	*2*
	27	*Fn.*	*WII*			-----	*+0.13*		*+0.13*	*0*	---	*3½*
	29	*R.*	*WII*			*+0.041*	*+0.13*		*+0.16*	*0*	---	--
Apr.	*2*	*R.*	*WII*			*+0.046*	*−0.06*		*−0.03*	*0*	---	--
	4	*Hd.*	*EII*			*+0.050*	*−0.27*		*−0.29*	*0*	---	*2*
	5	*R.*	*EII*			*+0.055*	*+0.24*		*+0.29*	*0*	---	--
	7	*Fn.*	*WII*			*−0.001*	*+0.35*		*+0.41*	*0*	---	*3*
	8	*Hd.*	*WII*			*+0.071*	*−0.28*		*−0.25*	*0*	---	*3*
	10	*Fn.*	*WII*			-----	*+0.03*		*−0.03*	*0*	---	*2*
	11	*Hd.*	*EII*			-----	*−0.28*		*−0.31*	*0*	---	*2*
Aug.	1	R.	WII			+0.040			+0.67	I	---	4
	10	R.	EII			+0.036			+0.04	I	3.4	5
	15	R.	WII			+0.051			−0.18	I	---	4
	22	R.	WII			+0.022			−0.29	I	---	3
Sept.	5	Fn.	EII			+0.037			−0.54	I	3.0	2
	6	Hd.	EII			+0.030			−0.42	I	2.9	2½
	12	R.	WII			+0.068			0.00	II	2.6	1
	30	Hd.	EII			+0.038			+0.21	I	3.4	2
Oct.	3	Hd.	EII			+0.047			−0.26	I	3.4	1
1913												
Mar.	*11*	*Fn.*	*EII*			*+0.064*	*+0.34*		*+0.31*	*0*	---	*2½*
	18	*Fn.*	*WII*			-----	*−1.51*		*−1.57*	*0*	---	*3*
May	24	R.	WII			+0.065			−0.30	I	3.9	3
1914												
Feb.	*20*	*Hd.*	*WI*			*+0.029*	*−1.45*		*−1.37*	*0*	---	*3*
Apr.	*5*	*Wy.*	*WI*			-----	*−0.33*		*−0.49*	*0*	---	*2½*
June	13	Wy.	EI			+0.059			+0.44	0	---	2
Aug.	20	Fn.	WI			+0.045			+0.04	I	3.9	2½
	22	An.	WI			+0.040			−0.84	I	2.4	2
	27	Fn.	WI			+0.072			+0.34	0	---	1½
	30	Wy.	WI			+0.061			----	I	3.4	2½
	31	Fn.	WI			+0.048			----	I	2.9	2
Sept.	2	Wy.	WI			+0.037			−0.12	I	3.4	3
	5	Wy.	WI			+0.072			−0.55	I	2.9	2
	9	Fn.	EI			-----			+0.55	I	3.4	2
	10	An.	EI			+0.065			----	0	---	2
	13	Wy	EI			+0.045			----	I	3.4	2½
	14	Fn.	EI			+0.036			−0.46	I	2.9	2
	15	An.	EI			+0.023			+0.26	II	3.6	1½
	18	An.	EI			+0.048			−0.42	I	---	2
	20	An.	EI			+0.041			−0.55	I	---	2
	21	Hd.	EI			+0.055			+0.03	I	2.9	2
Oct.	19	An.	EI			-----			−0.52	I	---	3
1915												
Mar.	*30*	*Fn.*	*EI*			-----	*+0.08*		*+0.03*	*0*	---	*2½*
May	9	Wy.	EI			+0.039			----	I	3.4	2½
July	9	Fn.	WI			+0.038			----	I	3.4	2½
	13	Fn.	WI			+0.041			----	I	3.9	3½
	17	An.	WI			+0.041			−0.69	I	---	2½
	20	Hd.	EI			+0.072			+0.12	I	3.9	2

				s	"	"			
1915									
July	31	An.	EI	+0.024		----	0	---	3
Aug.	12	Fn.	EI	+0.047		−0.19	I	3.4	2½
	13	An.	EI	+0.035		+0.34	I	4.4	3
	15	Wy.	EI	+0.063		−0.44	I	3.9	2½
	16	Fn.	EI	+0.059		0.00	I	---	2
	17	An.	WI	+0.017		−0.20	I	---	3
	18	Wy.	WI	+0.040		+0.29	I	3.9	3
	25	Wy.	WI	+0.060		−0.40	I	3.4	2½
	26	Hd.	WI	+0.049		+0.26	0	---	2
Sept.	9	Wy.	WI	+0.048		−0.52	I	3.4	3
	14	Wy.	EI	+0.052		−0.58	I	3.4	2½
	16	Wy.	EI	+0.049		−0.32	I	3.4	2½
	23	Hd.	EI	+0.064		----	I	2.9	2
	25	Wy.	EI	+0.041		----	I	3.4	3
	27	Hd.	EI	+0.066		−0.22	I	3.4	2
Oct.	4	Wy.	WI	+0.038		−0.32	I	---	3
1916									
Feb.	*3*	*Wy.*	*EI*	-----	*−0.34*	*−0.14*	*0*	---	*3½*
Mean		1913.77		+0.050		−0.09			
		1913.62							
Corr				−0.081		−0.19			

B. D.+38° 3575

				h	m	s	°	′	"			
1916												
Aug.	8	Fn.	EI	19	21	-----	+39	2	8.73	0	7.0	2
	18	Wy.	EI			-----			8.55	0	7.0	2
	24	Wy.	WI			-----			8.59	0	7.0	3
	25	Fn.	WI			-----			9.40	0	7.0	2
	28	Wy.	WI			-----			8.52	0	7.0	2½
Mean		1916.64		19	21	-----	+39	2	8.76			
Corr						-----			−0.27			

186 G. Sagittarii

				h	m	s	°	′	"			
1913												
June	19	Hd.	EII	19	21	15.328	−29	55	19.08	0	---	4
	24	Fn.	EII			15.396			19.63	0	6.5	3
	30	Hd.	EII			15.325			18.95	0	6.0	3½
July	7	Hd.	WII			15.322			19.37	0	7.0	4
	10	Fn.	WII			15.369			19.49	0	6.0	3
	14	Fn.	WII			15.401			18.31	0	6.3	3½
1914												
Aug.	3	Fn.	EI			15.414			17.74	0	---	3
	7	Hd.	EI			15.392			18.61	0	6.5	3
	8	Wy.	EI			15.400			19.62	0	---	3½
	17	Fn.	WI			15.324			18.24	0	6.5	3½
	18	Wy.	WI			15.324			19.78	0	7.0	3½
Mean		1914.01		19	21	15.363	−29	55	18.98			
Corr						−0.081			+0.03			

Bradley 2462

				h	m	s	°	′	"			
1911												
July	1	R.	WII	19	22	32.481	+19	42	43.00	0	6.0	--
	10	Fn.	WII			32.467			43.08	0	---	2
	19	R.	EII			32.437			43.21	0	7.0	1½
	20	Fn.	EII			32.431			43.95	0	---	3
1915												
June	19	Wy.	WI			32.447			43.08	0	6.5	2
	22	Wy.	EI			32.504			42.18	0	6.0	2½
	28	Wy.	EI			32.445			42.99	I	5.4	2½
July	2	Hd.	WI			32.425			43.37	0	6.5	3
Mean		1913.50		19	22	32.455	+19	42	43.11			
Corr						−0.081			−0.23			

4 Cygni

				h	m	s	°	′	"			
1915												
Sept.	13	Hd.	EI	19	22	54.664	+36	8	-----	0	5.5	2
	23	Hd.	EI			54.646			-----	I	4.9	2
1916												
Aug.	17	Fn.	EI			54.621			-----	0	5.5	2
Sept.	1	Fn.	WI			54.621			-----	0	---	2½
1916												
Sept.	7	Hd.	WI			54.653			-----	0	---	3
	11	Hd.	WI			54.623			-----	I	4.9	2
	19	Hd.	EI			54.630			-----	0	5.5	2
	25	Wy.	EI			54.631			-----	0	5.5	2
	28	Wy.	WI			54.662			-----	0	5.5	2
Oct.	5	Hd.	WI			54.658			-----	I	4.9	2
	9	Hd.	WI			54.657			-----	I	4.9	2½
1917												
Oct.	11	Hd.	EII			54.659			-----	0	5.5	2
1918												
Aug.	8	Wy.	WII			54.666			-----	0	6.0	3
Mean		1916.79		19	22	54.646	+36	8	-----			
Corr						−0.081			-----			

Groombridge 2844

				h	m	s	°	′	"			
1911												
July	15	R.	WII	19	23	11.910	+44	45	7.84	0	7.0	1
	22	R.	EII			11.919			7.54	0	7.0	1½
	24	Fn.	EII			11.896			7.33	0	6.5	3
	27	Fn.	WII			11.781			7.46	0	6.5	2
1915												
July	9	Fn.	WI			11.832			7.10	0	6.5	2½
	13	Fn.	WI			11.875			7.76	0	7.0	3
	22	Fn.	EI			11.887			6.65	0	---	2½
	27	Hd.	EI			11.856			6.99	0	7.5	2
Mean		1913.55		19	23	11.870	+44	45	7.33			
Corr						−0.081			−0.28			

Piazzi XIX 126

				h	m	s	°	′	"			
1913												
July	1	Fn.	EII	19	24	18.327	−27	10	14.44	0	6.7	3
	3	R.	EII			18.319			14.28	0	---	3
	4	Hd.	EII			18.284			14.03	0	6.5	3
	7	Hd.	WII			18.267			14.21	0	6.0	3½
	10	Fn.	WII			18.312			14.31	0	6.3	3
1914												
Aug.	20	Fn.	WI			18.316			15.11	0	6.0	3
	31	Fn.	WI			18.301			14.46	0	6.0	3
Sept.	8	Wy.	EI			18.314			13.63	0	6.0	3
	9	Fn.	EI			18.289			13.80	0	6.0	3
	13	Wy.	EI			18.324			14.39	0	6.0	3
Mean		1914.09		19	24	18.305	−27	10	14.27			
Corr						−0.081			−0.01			

Lalande 36813

				h	m	s	°	′	"			
1911												
July	28	Hd.	WII	19	24	41.641	+0	3	38.44	0	7.0	2
	31	Fn.	WII			41.645			37.97	0	6.5	2½
Aug.	8	R.	EII			41.638			37.95	0	---	2
	9	Fn.	EII			41.598			38.03	0	---	3½
1915												
June	17	Fn.	WI			41.643			38.04	0	6.0	2½
	18	Hd.	WI			41.658			38.02	0	7.0	2
Aug.	7	An.	EI			41.648			38.37	0	6.5	3½
	10	An.	EI			41.646			38.41	0	6.5	2
Mean		1913.56		19	24	41.640	+0	3	38.15			
Corr						−0.081			−0.18			

Radcliffe 1845, 4348

				h	m	s	°	′	"			
1913												
June	10	R.	WII	19	24	46.22	+76	22	54.03	0	6.0	2½
	19	Hd.	EII			46.38			53.43	0	7.0	2½
	26	Hd.	EII			46.33			54.29	0	---	3
July	8	Fn.	WII			46.21			54.36	0	6.5	2½
1914												
Aug.	6	Fn.	EI			46.27			54.00	0	---	2
	14	Wy.	WI			46.23			54.13	0	---	3
	15	Fn.	WI			46.19			54.61	0	5.5	2
Sept.	14	Fn.	EI			46.49			54.48	0	6.5	2
Mean		1914.06		19	24	46.290	+76	22	54.17			
Corr						−0.081			−0.35			

Radcliffe 1845, 4348 s. p.

				h	m	s	°	′	″			
1913												
Jan. 9	R.	WII		19	24	46.34	+76	22	53.26	0	6.0	2½
14	R.	WII				46.19			53.00	0	7.0	1
22	Fn.	EII				46.15			52.95	0	7.5	3½
Feb. 23	R.	EII				46.30			54.11	0	6.0	2
Nov. 22	R.	WI				46.30			53.67	0	6.0	2½
24	Hd.	WI				46.19			53.73	0	6.5	3½
Dec. 8	Hd.	EI				46.28			54.79	0	7.0	3½
9	Fn.	EI				46.40			52.34	0	6.5	3½
Mean	1913.49			19	24	46.269	+76	22	53.48			
Corr						−0.081			+0.52			

6 Vulpeculæ

				h	m	s	°	′	″			
1913												
June 4	R.	WII		19	24	57.593	+24	28	55.16	I	4.4	3
6	Fn.	WII				57.561			55.57	0	---	2
12	Hd.	EII				57.642			54.79	I	4.4	2
13	Fn.	EII				57.622			55.24	I	4.4	3
1914												
July 22	Fn.	EI				57.656			55.48	0	---	2
28	Hd.	EI				57.575			55.37	I	4.4	2
Aug. 17	Fn.	WI				57.596			55.90	0	---	2
18	Wy.	WI				57.617			55.28	I	3.4	3
Mean	1914.02			19	24	57.608	+24	28	55.35			
Corr						−0.081			−0.24			

B. D.+62° 1716

				h	m	s	°	′	″			
1911												
July 12	R.	WII		19	25	24.16	+62	22	22.15	0	5.5	--
14	Hd.	WII				24.20			21.74	0	5.7	--
17	Fn.	EII				24.14			22.04	0	---	2½
18	Hd.	EII				24.12			21.19	0	---	3
1915												
June 4	An.	WI				24.10			21.83	0	7.0	3
9	An.	EI				24.21			22.53	0	7.0	3
12	An.	WI				24.20			21.96	0	7.0	2½
July 23	Hd.	EI				24.11			22.07	0	7.0	2½
Mean	1913.50			19	25	24.155	+62	22	21.94			
Corr						−0.081			−0.32			

Carrington 2965

				h	m	s	°	′	″			
1912												
July 26	R.	WII		19	26	42.34	+83	17	21.51	0	7.5	2½
Aug. 12	Fn.	EII				42.54			22.02	0	---	3
Sept. 5	Fn.	EII				42.50			21.31	0	6.6	2½
12	R.	WII				42.52			21.54	0	6.5	1½
1914												
July 9	Hd.	WI				42.71			21.66	0	7.5	2
18	Hd.	EI				42.63			21.20	0	7.0	3
19	Hd.	EI				42.73			21.38	0	6.2	3
Aug. 13	Hd.	WI				42.54			21.69	0	6.5	2
Mean	1913.60			19	26	42.564	+83	17	21.54			
Corr						−0.081			−0.38			

Carrington 2965 s. p.

				h	m	s	°	′	″			
1912												
Feb. 28	R.	WII		19	26	42.40	+83	17	20.75	0	7.5	3½
Mar. 1	Hd.	WII				42.60			21.11	0	6.0	3
10	Fn.	EII				42.79			20.00	0	---	3½
13	Fn.	EII				42.60			21.03	0	7.5	2½
1915												
Nov. 7	Hd.	EI				42.99			20.64	0	6.5	2½
10	Hd.	WI				42.64			21.26	0	6.5	3
15	Wy.	WI				42.50			20.34	0	7.0	3
22	Hd.	EI				43.10			21.09	0	6.5	2
Mean	1914.02			19	26	42.702	+83	17	20.78			
Corr						−0.081			+0.46			

Lalande 36978

				h	m	s	°	′	″			
1911												
June 21	T.	EII		19	26	54.817	+33	32	23.24	0	7.5	4½
27	Hd.	WII				54.818			24.80	0	7.5	3½
28	T.	WII				54.851			24.14	0	6.5	--
July 3	Fn.	EII				54.786			23.86	0	---	--
1915												
June 19	Wy.	WI				54.805			24.42	0	7.0	2
28	Wy.	EI				54.816			24.39	0	6.5	2
July 2	Hd.	WI				54.797			24.34	0	7.0	2
24	An.	EI				54.843			25.13	0	6.5	1½
Mean	1913.50			19	26	54.817	+33	32	24.29			
Corr						−0.081			−0.26			

β Cygni

				h	m	s	°	′	″			
				19	27	5.493	+27	46	12.30			
1911						s			″			
July 26	R.	WII				+0.031			----	0	---	5
Aug. 1	Hd.	WII				+0.024			+0.65	I	2.9	2½
6	R.	WII				+0.040			+1.52	I	1.9	1
7	Fn.	WII				+0.020			−0.53	I	3.4	2
10	R.	EII				−0.011			−0.33	I	2.4	1
15	R.	EII				+0.023			+0.25	II	1.6	2
16	Fn.	EII				+0.032			+0.02	I	3.1	2
17	R.	EII				+0.032			−0.59	0	---	1
18	Fn.	EII				+0.069			+0.10	0	---	2
19	R.	EII				+0.007			+0.46	II	2.6	1
21	Fn.	EII				−0.003			+0.19	I	2.8	1½
22	R.	EII				+0.052			+0.42	I	2.4	1
Sept. 1	Fn.	WII				+0.038			−0.52	I	3.4	1½
2	R.	WII				+0.062			+0.04	I	1.9	3
13	R.	WII				+0.083			+0.58	II	2.1	1½
18	Fn.	WII				+0.023			+0.08	I	2.7	1½
Oct. 4	Hd.	EII				+0.058			----	I	---	3½
5	Hd.	EII				+0.033			+0.51	I	---	2
6	Hd.	EII				+0.042			+0.49	I	2.7	2
9	Fn.	WII				-----			−0.03	I	---	--
11	Fn.	WII				−0.006			+0.28	I	2.6	2
12	Fn.	WII				+0.029			+0.27	I	2.6	2½
13	Fn.	WII				−0.013			+0.68	I	2.6	2
1912												
Feb. 15	*Hd.*	*EII*				*0.000*	*+0.29*		*+0.29*	*0*	---	*2*
29	*Hd.*	*WII*				*+0.020*	*+0.46*		*+0.48*	*0*	---	*2*
Mar. 18	*Hd*	*EII*				*+0.025*	*+0.18*		*+0.17*	*0*	---	*2*
25	*Hd.*	*WII*				*+0.024*	*+0.41*		*+0.40*	*0*	---	*3*
27	*Fn.*	*WII*				-----	*+0.49*		*+0.49*	*0*	---	*3*
29	*R.*	*WII*				*+0.057*	*+0.63*		*+0.63*	*0*	---	--
31	*Fn.*	*WII*				-----	*−0.18*		*−0.21*	*0*	---	*2*
Apr. 2	*R.*	*WII*				*+0.081*	*+0.49*		*+0.50*	*0*	---	--
4	*Hd.*	*EII*				*−0.005*	*+0.64*		*+0.63*	*0*	---	*3*
5	*R.*	*EII*				*+0.001*	*+0.16*		*+0.17*	*0*	---	--
7	*Fn.*	*WII*				*−0.011*	*+0.01*		*+0.03*	*0*	---	*3*
8	*Hd.*	*WII*				*+0.040*	*+0.37*		*+0.37*	*0*	---	*3*
10	*Fn.*	*WII*				-----	*+0.34*		*+0.32*	*0*	---	*2*
11	*Hd.*	*EII*				-----	*+0.10*		*+0.08*	*0*	---	*2*
Aug. 1	R.	WII				+0.041			−0.02	I	---	3
10	R.	EII				+0.011			+0.13	I	---	2
15	R.	WII				+0.009			+0.57	0	---	4
22	R.	WII				+0.044			----	0	---	3
23	Fn.	WII				+0.023			+0.51	I	2.8	2
Sept. 6	Hd.	EII				+0.047			+0.15	I	2.9	2
30	Hd.	EII				+0.005			+0.11	II	3.1	2
Oct. 1	Hd.	EII				+0.050			+0.53	I	2.7	3
3	Hd.	EII				+0.011			+0.10	II	3.1	1
10	Hd.	WII				+0.035			−0.10	I	2.9	3
1913												
Feb. 12	*R.*	*WII*				*+0.012*	*−0.64*		*−0.61*	*0*	---	*3½*
14	*Hd.*	*WII*				*+0.035*	*−0.25*		*−0.21*	*0*	---	*3*
17	*Hd.*	*EII*				*+0.076*	*−0.38*		*−0.36*	*0*	---	*3*
24	*Hd.*	*EII*				*+0.111*	*+0.20*		*+0.23*	*0*	---	*3*
27	*Fn.*	*EII*				*+0.091*	*+0.36*		*+0.35*	*0*	---	*4*
Mar. 2	*Fn.*	*EII*				*+0.167*	*+0.52*		*+0.52*	*0*	---	*3½*
4	*Fn.*	*EII*				*+0.045*	*+0.47*		*+0.48*	*0*	---	*2½*
6	*Fn.*	*EII*				*+0.109*	*+0.07*		*+0.11*	*0*	---	*3½*
11	*Fn.*	*EII*				*+0.043*	*+0.50*		*+0.49*	*0*	---	*2½*

				s	"	"				
1913										
Mar. 17	*Hd.*	*WII*		*−0.003*	*+0.46*	*+0.48*	*0*	---		*2*
18	*Fn.*	*WII*		-----	*+0.57*	*+0.55*	*0*	---		*3*
May 24	R.	WII		+0.012		+0.11	I	2.9		2½
July 12	Fn.	WII		+0.026		+0.51	I	2.7		2½
14	Fn.	WII		+0.012		+0.53	I	2.9		2½
1914										
Feb. 8	*Fn.*	*EI*		*+0.055*	*−0.78*	*−0.76*	*0*	---		*3½*
20	*Hd.*	*WI*		*−0.012*	*−0.31*	*−0.29*	*0*	---		*3*
25	*Fn.*	*EI*		*+0.071*	*+0.09*	*+0.12*	*0*	---		*3½*
Mar. 9	*Wy.*	*WI*		*+0.009*	*−0.33*	*−0.31*	*0*	---		*2½*
Apr. 5	*Wy.*	*WI*		-----	*+0.41*	*+0.36*	*0*	---		*2½*
July 16	Fn.	WI		+0.056		−0.14	I	2.9		2½
Aug. 3	Fn.	EI		+0.014		+0.66	I	2.9		1½
4	Wy.	EI		+0.015		+0.40	I	3.4		3
7	Hd.	EI		+0.021		+0.09	II	2.6		2
8	Wy.	EI		+0.009		−0.36	I	3.4		3
22	An.	WI		+0.016		----	I	2.9		2
27	Fn.	WI		+0.003		+0.15	I	---		1½
30	Wy.	WI		+0.021		+0.10	II	3.6		2
Sept. 2	Wy.	WI		+0.033		−0.02	I	3.4		3
4	Fn.	WI		+0.021		−0.67	I	2.9		2½
5	Wy.	WI		+0.044		+0.16	II	2.6		2
15	An.	EI		+0.036		−0.09	II	3.6		1½
18	An.	EI		+0.001		−0.49	I	---		2
19	Wy.	EI		+0.068		−0.12	I	3.4		2
20	An.	EI		+0.084		−0.34	II	3.1		1½
21	Hd.	EI		+0.001		+0.25	I	2.7		3
Oct. 17	Wy.	EI		+0.018		−0.45	I	2.9		2½
19	An.	EI		-----		+0.33	II	3.1		2½
1915										
Jan. 14	*Fn.*	*WI*		*+0.040*	*−0.11*	*−0.11*	*0*	---		*3½*
15	*An.*	*WI*		*+0.013*	*+0.27*	*+0.29*	*0*	---		*3½*
25	*An.*	*EI*		*+0.082*	*+0.08*	*+0.11*	*0*	---		*4*
28	*Wy.*	*EI*		*+0.076*	*−0.45*	*−0.40*	*0*	---		*3½*
May 9	Wy.	EI		+0.019		----	II	2.6		2
July 17	An.	WI		+0.030		+0.16	II	3.6		2
20	Hd.	EI		+0.033		----	I	3.4		2
31	An.	EI		+0.020		----	0	---		3½
Aug. 12	Fn.	EI		+0.052		−0.29	I	2.9		2
13	An.	EI		+0.039		+0.35	I	---		3
15	Wy.	EI		+0.046		−0.04	I	3.4		2
16	Fn.	EI		+0.026		−0.04	I	3.9		2
17	An.	WI		+0.044		+0.40	I	---		2½
18	Wy.	WI		+0.022		----	I	3.4		2½
21	Wy.	WI		+0.060		----	I	3.4		3½
25	Wy.	WI		+0.033		+0.35	I	2.9		2½
26	Hd.	WI		+0.007		+0.42	I	---		2
Sept. 9	Wy.	WI		+0.044		−0.13	I	2.9		2½
14	Wy.	EI		+0.041		−0.22	I	2.9		2
16	Wy.	EI		+0.034		−0.10	I	2.9		2
23	Hd.	EI		+0.045		----	I	2.9		2
25	Wy.	EI		+0.027		−0.18	I	2.9		2½
27	Hd.	EI		+0.037		−0.29	I	2.9		3
28	Fn.	EI		+0.028		+0.39	I	2.9		2½
Oct. 4	Wy.	WI		+0.029		+0.03	I	---		3
1916										
Jan. 20	*Hd.*	*EI*		-----	*−0.43*	*−0.38*	*0*	---		*3*
23	*Hd.*	*EI*		*+0.064*	*−0.08*	*−0.03*	*0*	---		*3*
Feb. 8	*Wy.*	*EI*		-----	*−0.47*	*−0.41*	*0*	---		*3½*
6	*Wy.*	*EI*		*+0.080*	*+0.20*	*+0.22*	*0*	---		*3½*
27	*Fn.*	*WI*		*+0.030*	*+0.97*	*+0.99*	*0*	---		*3½*
29	*Wy.*	*WI*		-----	*−0.36*	*−0.33*	*0*	---		*2½*
Aug. 8	Fn.	EI		+0.026		+0.40	I	3.4		2
14	Wy.	EI		+0.027		+0.21	I	3.9		2½
17	Fn.	EI		+0.057		−0.37	I	3.4		2½
21	Wy.	EI		+0.044		+0.36	I	3.4		3
22	Fn.	EI		+0.026		−1.19	I	3.9		2½
24	Wy.	WI		+0.036		+0.13	I	3.4		2½
25	Fn.	WI		+0.039		−0.33	I	2.9		2
28	Wy.	WI		+0.028		+0.57	I	3.9		2½
Sept. 1	Fn.	WI		+0.036		----	0	---		2½
7	Hd.	WI		+0.036		−0.34	I	2.9		3
11	Hd.	WI		+0.031		−0.26	I	2.9		2
19	Hd.	EI		+0.031		−0.13	II	3.1		2
20	Wy.	EI		+0.021		−0.04	I	3.4		2
25	Wy.	EI		+0.055		+0.19	I	2.9		2
26	Hd.	EI		+0.061		−0.51	II	2.6		2
28	Wy.	WI		+0.046		+0.06	I	3.4		2

				s	"	"				
1916										
Oct. 5	Hd.	WI		+0.032		----	II	2.6		2
6	Wy.	WI		+0.034		+0.53	I	2.9		2
10	Fn.	WI		+0.024		−0.56	I	2.9		2
12	Hd.	WI		+0.031		−0.14	I	2.9		2
17	Fn.	WI		+0.063		−1.50	I	2.9		2½
26	*Wy.*	*EI*		*+0.013*	*−0.62*	*−0.64*	*I*	---		*3*
27	*Hd.*	*EI*		*+0.055*	*−0.39*	*−0.37*	*I*	---		*2½*
Nov. 2	*Hd.*	*EI*		*+0.017*	*−0.40*	*−0.38*	*I*	---		*2*
3	*Fn.*	*EI*		*+0.012*	*−0.78*	*−0.79*	*0*	---		*2*
7	*Wy.*	*EI*		*+0.050*	*−0.25*	*−0.23*	*0*	---		*3*
9	*Wy.*	*EI*		*−0.020*	*+0.31*	*+0.33*	*0*	---		*3*
16	*Wy.*	*WI*		*+0.039*	*+0.39*	*+0.45*	*0*	---		*3½*
27	*Wy.*	*WI*		*+0.015*	*+0.49*	*+0.52*	*0*	---		*3*
Dec. 7	*Fn.*	*EI*		*+0.038*	*−0.57*	*−0.54*	*0*	---		*3½*
8	*Hd.*	*EI*		*+0.061*	*−0.26*	*−0.21*	*0*	---		*3*
1917										
Mar. 18	*Fn.*	*EI*		*+0.004*	*−0.23*	*−0.22*	*0*	---		*2*
21	*Fn.*	*EI*		*+0.072*	*−0.25*	*−0.24*	*0*	---		*2½*
25	*Wy.*	*WI*		*+0.066*	*+0.39*	*+0.39*	*0*	---		*3½*
Apr. 3	*Hd.*	*WI*		*+0.044*	----	----	*0*	---		*2½*
July 30	Wy.	EII		+0.031		+0.22	I	2.9		2
Aug. 7	Wy.	WII		+0.054		+0.20	I	---		2½
13	Fn.	WII		+0.028		+0.09	I	3.4		2
20	Fn.	WII		+0.036		+0.14	I	3.4		1½
21	Wy.	WII		+0.067		−0.09	I	3.4		2
25	Wy.	EII		+0.045		+0.33	I	2.9		2½
Sept. 4	Fn.	EII		+0.038		+0.74	I	2.9		2
11	Fn.	EII		+0.058		−0.11	I	2.9		2½
13	Hd.	EII		+0.007		+0.18	I	2.9		2
17	Hd.	EII		+0.094		+0.13	I	2.9		2
18	Wy.	EII		+0.029		+0.35	I	3.4		2
20	Hd.	WII		+0.029		+0.08	I	2.9		3
Oct. 2	Fn.	WII		+0.063		+1.14	I	2.9		2½
11	Hd.	EII		+0.020		+0.25	I	3.4		2
15	Fn.	EII		+0.067		−0.36	I	3.4		3
Nov. 20	*Fn.*	*WII*		*+0.018*	*−0.30*	*−0.27*	*0*	---		*3*
Dec. 20	*Hd.*	*EII*		*+0.065*	*+0.05*	*+0.10*	*0*	---		*3*
1918										
Feb. 3	*Hd.*	*WII*		*+0.133*	*−0.45*	*−0.39*	*0*	---		*3*
10	*Wy.*	*WII*		*+0.048*	*−0.77*	*−0.73*	*0*	---		*3½*
13	*Wy.*	*WII*		*+0.047*	*−0.72*	*−0.68*	*0*	---		*3½*
26	*Hd.*	*EII*		*+0.113*	*+0.01*	*+0.07*	*0*	---		*3*
Mar. 7	*Wy.*	*EII*		*+0.005*	*+0.48*	*+0.50*	*0*	---		*3*
17	*Wy.*	*WII*		*+0.005*	*+0.30*	*+0.27*	*0*	---		*3½*
18	*Hd.*	*WII*		*+0.040*	*+0.62*	*+0.65*	*0*	---		*3*
27	*Fn.*	*WII*		*+0.076*	*−0.42*	*−0.41*	*0*	---		*3*
Apr. 4	*Fn.*	*EII*		*−0.017*	*−0.11*	*−0.10*	*0*	---		*2½*
Aug. 8	Wy.	WII		+0.043		+0.57	I	3.4		3
15	Fn.	WII		+0.030		+0.04	I	2.9		2
Mean		1914.91		+0.033		+0.09				
		1914.89								
Corr				−0.081		−0.25				

Weisse, XIX 608

				h	m	s	°	′	″			
1913												
May 28	R.	WII		19	27	17.126	+ 5	34	40.54	0	7.0	2
31	R.	WII				17.118			40.78	0	7.5	3
June 17	Fn.	EII				17.145			40.65	0	7.0	3
18	R.	EII				17.120			40.47	0	7.0	2
1914												
June 16	Hd.	EI				17.117			40.54	0	7.0	3
17	Wy.	EI				17.151			40.34	0	7.0	2½
23	Hd.	WI				17.108			40.19	0	7.0	3
29	Fn.	WI				17.083			40.21	0	7.0	3
Mean		1913.95		19	27	17.121	+ 5	34	40.46			
Corr						−0.081			−0.19			

ι Cygni

				h	m	s	°	′	″			
				19	27	26.250	+51	32	16.14			
1911												
June 29	Fn.	WII				−0.018			+0.09	I	3.3	--
30	Hd.	WII				+0.002			+0.33	0	4.5	3
July 5	R.	EII				−0.031			+0.14	I	3.9	--
6	Fn.	EII				−0.037			−0.01	0	4.5	2½

				s	″				
1912									
June	10	Hd.–Fn.	EII	-----	−0. 73	I	---	2	R.
	10	Hd.–Fn.	EII	-----	+0. 22	I	---	2	
	11	Hd.–Fn.	EII	-----	−0. 25	0	---	3½	R.
	11	Hd.–Fn.	EII	-----	−0. 09	0	---	3½	
	20	Fn.–Hd.	EII	-----	−0. 65	0	---	2	R.
	20	Fn.–Hd.	EII	-----	+0. 80	0	---	2	
July	2	Fn.–Hd.	EII	-----	−0. 11	I	---	2	R.
	2	Fn.–Hd.	EII	-----	−0. 07	I	---	2	
	3	Hd.–Fn.	WII	-----	−0. 60	I	---	2	R.
	3	Hd.–Fn.	WII	-----	−0. 12	I	---	2	
	5	Hd.–Fn.	WII	-----	−0. 37	I	---	1	R.
	5	Hd.–Fn.	WII	-----	−0. 02	I	---	1	
	6	Fn.–Hd.	WII	-----	−0. 20	I	---	2	R.
	6	Fn.–Hd.	WII	-----	−0. 02	I	---	2	
	8	Fn.–Hd.	WII	-----	−0. 74	I	---	2	R.
	8	Fn.–Hd.	WII	-----	+0. 01	I	---	2	
1913									
Aug.	7	R.–Fn.	WII	-----	+0. 51	I	---	2	R.
	7	R.–Fn.	WII	-----	−0. 19	I	2. 9	2	
	11	R.–Fn.	WII	-----	−0. 16	I	---	2½	R.
	11	R.–Fn.	WII	-----	+0. 15	I	3. 4	2	
	14	R.–Fn.	WII	-----	+0. 23	I	---	2½	R.
	14	R.–Fn.	WII	-----	−0. 78	I	2. 9	2	
	15	Fn.–R.	WII	-----	+0. 44	I	---	2	R.
	15	Fn.–R.	WII	-----	−0. 72	I	3. 4	1½	
	16	Fn.–R.	WII	-----	+0. 25	I	---	2	R.
	16	Fn.–R.	WII	-----	−0. 24	I	3. 9	2	
	20	R.–Fn.	EII	-----	+0. 04	I	---	2	R.
	20	R.–Fn.	EII	-----	−0. 18	I	2. 9	2	
	21	R.–Fn.	EII	-----	−0. 20	I	---	3	R.
	21	R.–Fn.	EII	-----	−0. 19	I	2. 9	2½	
	25	R.–Fn.	EII	-----	+0. 85	I	---	2	R.
	25	R.–Fn.	EII	-----	[−1. 66]	II	3. 1	2	
	26	Fn.–R.	EII	-----	−0. 42	I	---	2½	R.
	26	Fn.–R.	EII	-----	+0. 05	I	---	2½	
	30	Fn.–R.	EII	-----	−1. 06	I	---	2½	R.
	30	Fn.–R.	EII	-----	−0. 09	I	3. 4	2	
Sept.	4	Fn.–R.	EII	-----	−0. 25	0	---	2	R.
	4	Fn.–R.	EII	-----	−0. 18	I	3. 9	2	
1915									
July	6	Fn.	WI	−0. 002	+0. 29	I	4. 4	2½	
	8	Hd.	WI	−0. 027	+0. 25	I	3. 9	2	
	27	Hd.	EI	+0. 021	+0. 38	I	4. 4	2	
Aug.	9	Fn.	EI	+0. 006	−0. 17	I	4. 4	2½	
Mean			1913. 53	−0. 011	−0. 01				
			1913. 25						
Corr				−0. 081	−0. 29				

8 Cygni

				h	m	s	°	′	″				
1915													
Sept.	13	Hd.	EI	19	28	25. 616	+34	16	-----	I	4. 4	2	
1916													
Oct.	9	Hd.	WI			25. 633			-----	I	4. 4	2	
Mean			1916. 24	19	28	25. 624	+34	16	-----				
Corr						−0. 081			-----				

μ Aquilæ

				h	m	s	°	′	″				
				19	29	41. 646	+7	11	13. 99				
1911													
July	1	R.	WII			−0. 040			+0. 20	I	---	---	
	10	Fn.	WII			+0. 013			−0. 36	I	---	2	
	19	R.	EII			+0. 049			−0. 73	0	4. 5	1	
	22	R.	EII			+0. 037			+0. 06	0	3. 5	3	
1915													
June	9	An.	EI			+0. 059			−0. 09	I	5. 4	3	
	12	An.	WI			−0. 005			−0. 63	I	5. 4	2½	
	17	Fn.	WI			+0. 006			−0. 52	0	4. 5	2½	
	22	Wy.	EI			+0. 024			−0. 06	I	3. 9	2½	
Mean			1913. 49			+0. 018			−0. 27				
Corr						−0. 081			−0. 20				

h Sagittarii

				h	m	s	°	′	″				
				19	31	13. 904	−25	4	58. 63				
1913													
June	4	R.	WII			+0. 082			+0. 18	0	6. 0	4½	
	6	Fn.	WII			+0. 078			−0. 70	0	---	3	
	12	Hd.	EII			+0. 083			−0. 47	0	6. 0	3½	
	18	R.	EII			+0. 057			−0. 05	I	4. 9	3	
1914													
June	13	Wy.	EI			+0. 117			+0. 57	0	---	3	
	16	Hd.	EI			+0. 069			+0. 59	0	6. 0	3½	
	17	Wy.	EI			+0. 071			−0. 16	I	4. 9	3	
	30	Hd.	WI			+0. 090			−0. 18	0	---	3½	
July	8	Fn.	WI			+0. 044			−0. 10	0	---	3	
Mean			1914. 02			+0. 077			−0. 04				
Corr						−0. 081			−0. 03				

Oeltzen 19454

				h	m	s	°	′	″				
1913													
June	24	Fn.	EII	19	31	43. 75	+70	47	38. 54	0	5. 8	2	
	30	Hd.	EII			43. 72			38. 53	0	6. 0	2	
July	8	Fn.	WII			43. 81			38. 85	0	6. 5	2½	
	11	Hd.	WII			43. 74			38. 80	0	6. 2	3	
1914													
July	27	Fn.	EI			43. 74			38. 09	0	---	3	
	31	Fn.	EI			43. 75			38. 37	0	---	2½	
Aug.	13	Hd.	WI			43. 89			38. 14	0	6. 0	2	
	14	Wy.	WI			43. 76			38. 08	0	---	3	
Mean			1914. 05	19	31	43. 770	+70	47	38. 42				
Corr						−0. 081			−0. 34				

Piazzi XIX 180

				h	m	s	°	′	″				
1911													
July	12	R.	WII	19	31	50. 115	−18	25	53. 67	0	5. 5	4	
	14	Hd.	WII			50. 136			53. 28	0	6. 0	3	
	17	Fn.	EII			50. 129			53. 39	0	5. 8	2½	
	18	Hd.	EII			50. 117			53. 04	0	5. 8	3	
1915													
June	18	Hd.	WI			50. 139			54. 24	0	7. 5	2	
	19	Wy.	WI			50. 148			53. 68	0	7. 0	3	
	24	Fn.	EI			50. 085			53. 22	0	6. 0	2½	
	28	Wy.	EI			50. 119			53. 31	0	6. 5	3	
Mean			1913. 50	19	31	50. 124	−18	25	53. 48				
Corr						−0. 081			−0. 09				

κ Aquilæ

				h	m	s	°	′	″				
				19	32	3. 038	−7	13	41. 10				
1912													
Aug.	1	R.	WII			+0. 018			+0. 38	0	---	4	
	3	R.	EII			+0. 007			−0. 45	0	6. 0	2	
	12	Fn.	EII			+0. 016			−0. 87	0	---	3	
	22	R.	WII			−0. 002			−0. 61	I	---	3	
1914													
June	23	Hd.	WI			−0. 003			−0. 37	0	6. 0	3	
	29	Fn.	WI			−0. 019			−0. 40	0	5. 0	3½	
July	18	Hd.	EI			+0. 063			−0. 93	0	6. 0	3	
	19	Hd.	EI			+0. 042			−0. 75	I	4. 9	3	
Mean			1913. 56			+0. 015			−0. 50				
Corr						−0. 081			−0. 15				

Groombridge 2880

				h	m	s	°	′	″				
1911													
July	15	R.	WII	19	32	6. 264	+47	58	4. 89	0	6. 5	1	
	24	Fn.	EII			6. 308			3. 14	0	6. 7	---	
	25	Hd.	EII			6. 261			4. 02	0	6. 5	3	
	27	Fn.	WII			6. 263			4. 09	0	---	2	

			h m s	° ′ ″			
1915							
July 2	Hd.	WI	6.278		4.63	0	7.0 2
6	Fn.	WI	6.282		5.47	0	6.5 2½
20	Hd.	EI	6.291		4.45	0	6.5 2½
24	An.	EI	6.346		3.83	0	6.0 1½
Mean	1913.54		19 32 6.287	+47 58	4.32		
Corr			−0.081		−0.29		

Weisse$_2$ XIX 960

			h m s	° ′ ″			
1911							
June 21	T.	EII	19 33 14.120	+21 48	14.18	0	7.5 4½
27	Hd.	WII	14.155		14.21	0	--- 3½
28	T.	WII	14.165		14.35	0	--- --
July 3	Fn.	EII	14.066		13.57	0	--- --
1915							
July 8	Hd.	WI	14.077		13.36	0	7.0 2
9	Fn.	WI	14.120		13.57	0	7.0 2½
27	Hd.	EI	14.109		13.92	0	7.5 2
31	An.	EI	14.108		13.53	0	7.0 3
Mean	1913.52		19 33 14.115	+21 48	13.84		
Corr			−0.081		−0.23		

θ Cygni

			h m s	° ′ ″			
			19 34 1.692	+50 0	45.29		
1913							
June 10	R.	WII	−0.007		+0.40	I	3.9 2
17	Fn.	EII	+0.076		+0.42	0	4.8 2½
19	Hd.	EII	+0.027		+0.09	I	4.4 2
July 10	Fn.	WII	−0.010		+1.06	I	4.4 2
1914							
Aug. 3	Fn.	EI	+0.032		+0.08	0	--- 1½
4	Wy.	EI	+0.014		+0.47	0	5.5 3
15	Fn.	WI	−0.049		+0.41	I	4.4 2
17	Fn.	WI	+0.013		+0.75	0	4.5 2
Mean	1914.04		+0.012		+0.46		
Corr			−0.081		−0.29		

Lalande 37262

			h m s	° ′ ″			
1913							
July 1	Fn.	EII	19 34 18.648	+3 10	35.75	0	7.0 2½
3	R.	EII	18.635		35.58	0	7.0 2
7	Hd.	WII	18.685		36.61	0	7.0 3
12	Fn.	WII	18.699		35.57	0	7.0 3
1914							
July 9	Hd.	WI	18.685		35.77	0	7.0 2
16	Fn.	WI	18.646		35.34	0	6.5 3
20	Fn.	EI	18.626		35.40	0	6.5 2
22	Fn.	EI	18.693		35.65	0	7.5 2
Mean	1914.03		19 34 18.665	+3 10	35.71		
Corr			−0.081		−0.19		

54 Sagittarii

			h m s	° ′ ″			
			19 35 34.111	−16 30	1.09		
1911							
June 29	Fn.	WII	+0.044		+0.85	0	5.6 --
30	Hd.	WII	+0.024		+0.54	0	5.5 3
July 5	R.	EII	+0.030		−0.14	0	5.0 --
6	Fn.	EII	+0.060		+1.10	0	5.7 3
1915							
June 4	An.	WI	+0.068		+0.88	0	6.0 3½
9	An.	EI	+0.061		−0.14	0	6.5 3½
12	An.	WI	+0.057		−0.03	0	6.0 3
22	Wy.	EI	+0.047		−0.13	0	6.0 3
Mean	1913.47		+0.049		+0.37		
Corr			−0.081		−0.11		

14 Cygni

			h m s	° ′ ″			
1915							
Aug. 7	An.	EI	19 36 30.733	+42 36	-----	0	--- 2
9	Fn.	EI	30.762		-----	0	6.0 2½
12	Fn.	EI	30.748		-----	0	5.5 2½
15	Wy.	EI	30.729		-----	0	6.0 2
18	Wy.	WI	30.759		-----	0	6.0 2½
26	Hd.	WI	30.751		-----	0	6.0 2
Sept. 13	Hd.	EI	30.721		-----	0	6.0 2
23	Hd.	EI	30.745		-----	I	4.9 2
27	Hd.	EI	30.703		-----	0	6.0 3
1916							
Aug. 17	Fn.	EI	30.746		-----	0	5.5 2
21	Wy.	EI	30.750		-----	0	--- 3
24	Wy.	WI	30.729		-----	0	5.5 2
28	Wy.	WI	30.740		-----	0	--- 2
Sept. 7	Hd.	WI	30.740		-----	0	6.0 2
11	Hd.	WI	30.738		-----	0	6.0 2
19	Hd.	EI	30.754		-----	0	5.5 2
Oct. 6	Wy.	WI	30.781		-----	I	5.4 2
9	Hd.	WI	30.760		-----	0	5.5 3
12	Hd.	WI	30.739		-----	0	5.5 3
1917							
Oct. 11	Hd.	EII	30.738		-----	0	5.5 2
1918							
Aug. 8	Wy.	WII	30.775		-----	0	6.0 3
14	Wy.	WII	30.689		-----	0	6.0 3
Mean	1916.50		19 36 30.742	+42 36	-----		
Corr			−0.081		-----		

Groombridge 2907

			h m s	° ′ ″			
1911							
July 1	R.	WII	19 36 39.838	+54 45	45.42	0	5.5 --
10	Fn.	WII	39.816		45.96	0	--- 2
19	R.	EII	39.823		45.35	0	6.5 1
22	R.	EII	39.804		45.47	0	6.0 3
1915							
June 17	Fn.	WI	39.888		46.18	0	6.0 2½
18	Hd.	WI	39.828		46.23	0	--- 2
28	Wy.	EI	39.841		46.53	0	5.5 2
July 26	Fn.	EI	39.813		46.31	0	6.0 3
27	Hd.	EI	39.834		46.48	0	--- 2
Mean	1913.74		19 36 39.832	+54 45	45.99		
Corr			−0.081		−0.30		

β Sagittæ

			h m s	° ′ ″					
			19 37 0.386	+17 16	1.07				
1912									
June 10	Hd.–Fn.	EII	-----		−1.02	I	--- 5	R.	
10	Hd.–Fn.	EII	-----		+0.21	0	--- 5		
11	Hd.–Fn.	EII	-----		−0.31	0	--- 3½	R.	
11	Hd.–Fn.	EII	-----		−0.18	I	--- 3½		
20	Fn.–Hd.	EII	-----		−0.62	0	--- 2	R.	
20	Fn.–Hd.	EII	-----		+0.04	0	--- 2		
July 2	Fn.–Hd.	EII	-----		−0.60	0	--- 2	R.	
2	Fn.–Hd.	EII	-----		−0.30	I	--- 2		
3	Hd.–Fn.	WII	-----		−0.98	I	--- 2	R.	
5	Hd.–Fn.	WII	-----		−0.62	0	--- 1	R.	
5	Hd.–Fn.	WII	-----		−0.11	I	--- 1		
6	Fn.–Hd.	WII	-----		−0.81	0	--- 2	R.	
6	Fn.–Hd.	WII	-----		−0.59	I	--- 2		
8	Fn.–Hd.	WII	-----		−0.74	0	--- 2	R.	
8	Fn.–Hd.	WII	-----		−0.14	I	--- 2		
26	R.	WII	+0.054		−0.18	I	4.4 4		
Aug. 1	R.	WII	+0.035		+0.30	0	--- 3		
3	R.	EII	+0.043		+0.32	0	5.5 1		
10	R.	EII	+0.041		+0.57	I	4.4 2		
1913									
Aug. 7	R.–Fn.	WII	-----		−0.64	I	--- 1½	R.	
7	R.–Fn.	WII	-----		0.00	I	2.9 2		
11	R.–Fn.	WII	-----		−0.87	I	--- 2	R.	
11	R.–Fn.	WII	-----		+0.21	I	3.4 2		
15	Fn.–R.	WII	-----		−0.41	I	2	R.	
15	Fn.–R.	WII	-----		0.30	I	3.9 2		

				s	″				
1913									
Aug. 16	Fn.–R.	WII		-----	−0. 31	0	---	1½	R.
16	Fn.–R.	WII		-----	−0. 75	I	3. 9	1½	
20	R.–Fn.	EII		-----	−0. 88	I	---	2	R.
20	R.–Fn.	EII		-----	−0. 17	I	3. 9	2	
25	R.–Fn.	EII		-----	−0. 36	I	---	2	R.
25	R.–Fn.	EII		-----	−0. 55	I	3. 9	2	
30	Fn.–R.	EII		-----	−1. 37	0	---	2	R.
30	Fn.–R.	EII		-----	−0. 23	0	4. 5	2	
Sept. 2	Fn.–R.	EII		-----	−0. 65	0	---	2½	R.
2	Fn.–R.	EII		-----	+0. 83	I	3. 9	2½	
4	Fn.–R.	EII		-----	−0. 81	0	---	3	R.
4	Fn.–R.	EII		-----	+0. 77	I	4. 4	2½	
1914									
June 23	Hd.	WI		+0. 071	−0. 20	I	4. 4	2	
29	Fn.	WI		+0. 026	+0. 87	0	4. 5	3	
July 18	Hd.	EI		+0. 065	−0. 38	I	4. 4	2	
19	Hd.	EI		+0. 062	+0. 17	I	3. 9	2½	
Mean------		1913. 55		+0. 050	+0. 01				
		1913. 27							
Corr----------				−0. 081	−0. 22				

Bradley 2500

			h	m	s	°	′	″			
1911											
July 12	R.	WII	19	37	59. 533	+11	58	53. 88	0	7. 0	2
14	Hd.	WII			59. 540			53. 40	0	6. 0	3
17	Fn.	EII			59. 572			54. 03	0	6. 2	3
18	Hd.	EII			59. 493			52. 38	0	6. 0	2½
1915											
June 24	Fn.	EI			59. 521			53. 57	0	6. 0	2
July 2	Hd.	WI			59. 522			53. 30	0	6. 5	2
6	Fn.	WI			59. 489			53. 42	0	6. 5	2½
20	Hd.	EI			59. 515			53. 22	0	6. 5	3
Mean------		1913. 52	19	37	59. 523	+11	58	53. 40			
Corr----------					−0. 081			−0. 21			

15 Cygni

			h	m	s	°	′	″			
			19	41	1. 922	+37	8	11. 93			
1911											
July 15	R.	WII			−0. 018			−0. 44	0	---	1
20	Fn.	EII			−0. 010			−0. 69	0	---	--
24	Fn.	EII			−0. 045			−1. 09	0	4. 8	--
27	Fn.	WII			−0. 056			−1. 13	0	---	2
1914											
Oct. 17	Wy.	EI			−0. 022			----	I	---	2½
20	Hd.	EI			+0. 013			----	I	---	3
1915											
June 18	Hd.	WI			−0. 062			−0. 79	0	---	2
19	Wy.	WI			−0. 045			−0. 26	I	4. 4	2
22	Wy.	EI			−0. 042			−0. 84	I	4. 4	2½
July 22	Fn.	EI			−0. 011			−0. 84	0	5. 0	2½
Aug. 9	Fn.	EI			−0. 041			−0. 84	0	---	2½
18	Wy.	WI			−0. 047			----	I	5. 4	2½
Sept. 13	Hd.	EI			−0. 064			----	I	4. 4	2
27	Hd.	EI			−0. 005			----	I	4. 4	3
1916											
Aug. 17	Fn.	EI			−0. 073			----	0	5. 0	2
21	Wy.	EI			−0. 054			----	I	4. 4	3
24	Wy.	WI			−0. 055			----	0	5. 0	2
28	Wy.	WI			−0. 046			----	0	---	2½
Sept. 7	Hd.	WI			−0. 016			----	0	6. 0	2
28	Wy.	WI			−0. 051			----	I	4. 9	2
Oct. 9	Hd.	WI			−0. 063			----	I	4. 4	2
12	Hd.	WI			−0. 025			----	I	4. 4	2
1918											
Aug. 8	Wy.	WII			−0. 015			----	0	6. 5	3
14	Wy.	WII			−0. 026			----	0	5. 0	3
Mean------		1915. 47			−0. 037			−0. 77			
		1913. 75									
Corr----------					−0. 081			−0. 26			

f Sagittarii

			h	m	s	°	′	″			
			19	41	6. 749	−19	58	41. 28			
1911											
June 21	T.	EII			+0. 046			−1. 15	0	---	4½
27	Hd.	WII			+0. 116			−0. 24	I	3. 9	3½
29	Fn.	WII			+0. 046			−0. 64	0	---	--
July 3	Fn.	EII			+0. 072			−0. 88	0	---	--
1915											
July 8	Hd.	WI			+0. 066			−0. 36	0	6. 0	3
9	Fn.	WI			+0. 014			+0. 71	0	5. 5	3
24	An.	EI			+0. 067			+0. 35	0	6. 0	3
Aug. 10	An.	EI			+0. 066			−0. 87	0	6. 0	2½
Mean------		1913. 52			+0. 062			−0. 38			
Corr----------					−0. 081			−0. 08			

γ Aquilæ

			h	m	s	°	′	″			
			19	41	58. 857	+10	23	36. 00			
1911					″			″			
July 28	Hd.	WII			+0. 023			----	I	2. 4	2
Aug. 1	Hd.	WII			+0. 059			+0. 48	I	3. 4	2½
6	R.	WII			+0. 036			----	I	1. 9	1
7	Fn.	WII			+0. 061			−0. 04	I	3. 1	1½
8	R.	EII			+0. 017			----	II	2. 1	1
9	Fn.	EII			+0. 028			----	I	2. 9	--
10	R.	EII			+0. 024			----	II	2. 6	1
15	R.	EII			+0. 021			----	II	1. 6	2½
16	Fn.	EII			+0. 049			----	I	2. 9	2
17	R.	EII			+0. 048			----	I	---	1
18	Fn.	EII			+0. 040			----	I	2. 3	2½
21	Fn.	EII			+0. 058			----	I	2. 3	2
22	R.	EII			+0. 044			----	I	2. 9	1
Sept. 1	Fn.	WII			+0. 077			+0. 18	I	---	1½
2	R.	WII			+0. 026			----	II	2. 6	1½
6	R.	WII			+0. 030			+0. 08	II	2. 1	1
11	Fn.	WII			+0. 049			+0. 09	I	2. 5	1½
12	Hd.	WII			+0. 067			----	I	2. 4	3
13	R.	WII			+0. 033			----	II	1. 6	1
18	Fn.	WII			+0. 029			----	I	2. 5	1½
19	Hd.	WII			+0. 067			----	I	2. 4	2
20	R.	WII			+0. 061			----	I	2. 4	2½
22	Hd.	WII			+0. 055			+0. 14	I	2. 7	2½
25	Fn.	EII			+0. 068			+0. 71	I	2. 4	2
26	Hd.	EII			+0. 055			+0. 21	I	2. 1	3
28	Fn.	EII			+0. 048			+0. 82	I	2. 3	2
29	Hd.	EII			+0. 044			−0. 28	I	2. 4	3½
30	R.	EII			+0. 064			−0. 37	II	1. 6	2½
Oct. 4	Hd.	EII			+0. 035			----	0	---	3½
5	Hd.	EII			+0. 057			----	0	---	--
6	Hd.	EII			+0. 056			----	I	2. 9	2
11	Fn.	WII			+0. 055			----	I	2. 3	2½
12	Fn.	WII			+0. 028			----	I	2. 3	2
13	Fn.	WII			+0. 052			----	I	2 1	1½
18	Hd.	WII			+0. 030			----	I	2. 4	2
1912											
Feb. 15	*Hd.*	*EII*			*+0. 062*			----	*0*	---	*2*
22	*Hd.*	*WII*			*+0. 047*			----	*0*	---	*3½*
29	*Hd.*	*WII*			*+0. 049*			----	*0*	---	*2*
Mar. 18	*Hd.*	*EII*			*+0. 062*	*−0. 41*		*−0. 43*	*0*	---	*2*
25	*Hd.*	*WII*			*+0. 024*	*+0. 34*		*+0. 32*	*0*	---	*3*
27	*Fn.*	*WII*			-----	*+0. 69*		*+0. 70*	*0*	---	--
29	*R.*	*WII*			*+0. 044*	----		----	*0*	---	--
Apr. 2	*R.*	*WII*			*+0. 024*	----		----	*0*	---	--
7	*Fn.*	*WII*			*+0. 007*	*−0. 07*		*−0. 04*	*0*	---	*3*
8	*Hd.*	*WII*			*+0. 054*	*+0. 04*		*+0. 02*	*0*	---	*3*
10	*Fn.*	*WII*			-----	*+0. 48*		*+0. 41*	*0*	---	*2*
11	*Hd.*	*WII*			-----	*+0. 21*		*+0. 12*	*0*	---	*3*
July 26	R.	WII			+0. 038			+0. 73	II	2. 6	2
Aug. 1	R.	WII			+0. 045			−0. 26	0	---	2½
3	R.	EII			+0. 036			+0. 49	I	3. 4	1½
10	R.	EII			+0. 062			+0. 04	I	2. 4	3½
29	R.	WII			+0. 066			----	II	2. 6	2
Sept. 5	Fn.	EII			+0. 056			−0. 24	I	2. 4	1½
9	Hd.	EII			+0. 050			+0. 26	I	2. 4	2
12	R.	WII			+0. 030			+0. 17	II	2. 6	1
17	R.	WII			+0. 026			+0. 17	II	2. 6	1½

				s	"	"			
1912									
Sept.	20	Hd.	WII	+0.048		+1.08	I	2.4	2
	27	Hd.	EII	+0.086		----	II	2.6	3
	30	Hd.	EII	+0.035		+0.27	II	3.1	2
Oct.	1	Hd.	EII	+0.076		+0.21	I	2.4	3
	3	Hd.	EII	+0.045		+0.11	II	2.6	1
	9	Hd.	WII	+0.072		+0.02	II	2.6	1
	10	Hd.	WII	+0.036		+0.20	II	2.6	2
1913									
Feb.	*14*	*Hd.*	*WII*	*+0.064*	*−0.14*	*−0.04*	*0*	---	*3½*
	17	*Hd.*	*EII*	*+0.074*	*−0.11*	*−0.07*	*0*	---	*3½*
	24	*Hd.*	*EII*	*+0.140*	*−0.36*	*−0.28*	*0*	---	*3½*
	27	*Fn.*	*EII*	*+0.101*	----	----	*0*	---	*4*
Mar.	*2*	*Fn.*	*EII*	*+0.080*	*+0.11*	*+0.10*	*0*	---	*3½*
	16	*Fn.*	*WII*	*+0.053*	*+0.21*	*+0.19*	*0*	---	*3½*
	17	*Hd.*	*WII*	*+0.013*	*+0.43*	*+0.49*	*0*	---	*3*
	18	*Fn.*	*WII*	-----	*+1.05*	*+1.00*	*0*	---	*3*
May	28	R.	WII	+0.076		+0.44	II	2.1	2
July	3	R.	EII	+0.052		----	II	2.6	2
	12	Fn.	WII	+0.088		----	I	2.2	2½
	14	Fn.	WII	+0.088		+1.15	I	2.8	2½
1914									
Feb.	*20*	*Hd.*	*WI*	*+0.012*	----	----	*0*	---	*2½*
Mar.	*9*	*Wy.*	*WI*	*+0.063*	*−0.48*	*−0.46*	*0*	---	*2½*
	11	*Fn.*	*WI*	*+0.075*	----	----	*0*	---	*2½*
	13	*Hd.*	*WI*	*+0.066*	*−0.18*	*−0.11*	*0*	---	*3*
July	16	Fn.	WI	+0.050		----	I	2.9	2½
Aug.	3	Fn.	EI	+0.051		+0.51	I	2.9	2
	4	Wy.	EI	+0.061		+0.25	I	3.4	2½
	6	Fn.	EI	+0.057		+0.32	I	2.9	2
	7	Hd.	EI	+0.062		----	II	2.6	2
	13	Hd.	WI	+0.059		----	II	2.6	2
	14	Wy.	WI	+0.075		0.00	II	---	3
	15	Fn.	WI	+0.068		+0.22	I	2.4	2
	17	Fn.	WI	+0.041		+0.65	I	2.4	2
	18	Wy.	WI	+0.050		+0.13	II	2.6	2½
	20	Fn.	WI	+0.030		−0.65	I	2.9	2
	22	An.	WI	+0.105		+0.16	II	2.6	2
	30	Wy.	WI	+0.061		−0.02	I	2.9	3
	31	Fn.	WI	+0.036		+0.57	I	2.4	2
Sept.	1	An.	WI	+0.117		+1.79	I	2.9	2
	2	Wy.	WI	-----		−0.15	II	2.6	3
	5	Wy.	WI	+0.058		+0.22	II	---	2
	8	Wy.	EI	+0.022		+0.62	II	2.6	2
	9	Fn.	EI	+0.054		+0.24	I	2.9	2
	10	An.	EI	+0.066		−0.29	0	---	1½
	14	Fn.	EI	+0.062		+0.82	I	2.9	2
	15	An.	EI	+0.037		+0.69	II	---	2
	18	An.	EI	+0.061		−1.48	II	---	2
	19	Wy.	EI	+0.067		+0.39	II	---	2
	20	An.	EI	+0.056		−0.18	II	3.1	1½
	28	Hd.	WI	+0.061		−0.18	II	2.6	2½
1915									
June	4	An.	WI	+0.038		----	II	3.6	3
	9	An.	EI	+0.065		----	II	3.6	3
July	13	Fn.	WI	+0.055		+0.40	I	3.4	2½
	14	An.	WI	+0.012		+0.35	II	3.6	3
	17	An.	WI	+0.013		+0.28	II	3.6	2½
	20	Hd.	EI	+0.058		----	I	3.4	2
	26	Fn.	EI	+0.055		+0.82	I	3.9	3
Aug.	12	Fn.	EI	+0.058		----	I	2.9	2
	13	An.	EI	+0.044		+0.84	I	---	3
	14	Wy.	EI	+0.039		−0.01	I	2.9	2½
	17	An.	WI	+0.067		+0.07	I	---	3
	18	Wy.	WI	+0.054		−0.23	I	3.4	3
	19	Fn.	WI	+0.043		+0.36	0	---	2
	21	Wy.	WI	+0.041		−0.06	I	3.4	3½
	25	Wy.	WI	+0.036		−0.17	II	3.1	2½
	26	Hd.	WI	+0.044		+0.19	I	---	2
Sept.	1	Hd.	WI	+0.049		+0.01	0	---	3
	3	Hd.	WI	+0.070		−0.22	I	2.9	2
	10	Hd.	WI	+0.045		−0.33	II	2.6	2
	13	Hd.	EI	+0.052		+0.23	I	2.9	2
	15	Hd.	EI	+0.053		+0.22	I	2.9	2
	16	Wy.	EI	+0.054		+0.31	II	2.6	2½
	20	Hd.	EI	+0.080		+0.17	I	2.9	3
	22	Hd.	EI	+0.075		+0.71	II	2.6	2½
	23	Hd.	EI	+0.061		----	II	2.6	2
	25	Wy.	EI	+0.072		+0.21	I	2.9	3
1915									
Sept.	28	Fn.	EI	+0.051		+1.01	I	2.9	2½
Oct.	4	Wy.	WI	+0.057		−0.07	II	2.6	3
1916									
Jan.	*20*	*Hd.*	*EI*	-----	*−0.31*	*−0.15*	*0*	---	*3*
	23	*Hd.*	*EI*	*+0.092*	*−0.97*	*−0.83*	*0*	---	*3*
Feb.	*3*	*Wy.*	*EI*	-----	*+0.11*	*+0.29*	*0*	---	*3½*
	20	*Fn.*	*WI*	*+0.105*	*−0.90*	*−0.78*	*0*	---	*3½*
	27	*Fn.*	*WI*	*+0.082*	*−0.64*	*−0.58*	*0*	---	*4*
	29	*Wy.*	*WI*	-----	*−0.45*	*−0.34*	*0*	---	*3*
Mar.	*3*	*Wy.*	*WI*	*+0.021*	*−0.22*	*−0.13*	*0*	---	*3*
Aug.	8	Fn.	EI	+0.066		+0.32	I	3.4	2½
	21	Wy.	EI	+0.038		−0.01	I	2.9	3
	22	Fn.	EI	+0.069		+0.24	I	2.9	2½
	24	Wy.	WI	+0.058		−0.76	I	3.4	2
	25	Fn.	WI	+0.039		+0.61	I	2.9	2½
	28	Wy.	WI	+0.051		+0.38	I	3.4	2½
Sept.	1	Fn.	WI	+0.010		−1.25	0	---	2½
	5	Wy.	WI	+0.038		−0.23	I	2.9	2½
	7	Hd.	WI	+0.041		−0.16	I	2.9	3
	11	Hd.	WI	+0.059		+0.19	II	2.6	2
	19	Hd.	EI	+0.083		+0.11	II	3.1	2
	20	Wy.	EI	+0.040		−0.14	I	2.9	2
	25	Wy.	EI	+0.051		+0.27	I	2.9	2
	26	Hd.	EI	+0.031		−0.12	II	2.6	2
	28	Wy.	WI	+0.050		−0.31	I	2.9	2½
Oct.	2	Wy.	WI	+0.100		+0.16	I	3.9	3
	5	Hd.	WI	+0.057		----	I	2.9	2
	6	Wy.	WI	+0.043		−0.16	I	2.9	2
	10	Fn.	WI	+0.049		−0.15	I	3.4	2
	12	Hd.	WI	+0.058		+0.09	I	2.9	2
	17	Fn.	WI	+0.099		−0.30	I	2.9	2½
	26	Wy.	EI	+0.045		−0.44	I	3.4	3
	27	*Hd.*	*EI*	*+0.018*	*+0.07*	*+0.12*	*I*	---	*2*
Nov.	*2*	*Hd.*	*EI*	*+0.039*	*−0.11*	*−0.06*	*I*	---	*2*
	3	*Fn.*	*EI*	*+0.039*	*+0.48*	*+0.45*	*0*	---	*2*
	7	*Wy.*	*EI*	*+0.033*	*−0.09*	*−0.03*	*0*	---	*3*
	9	*Wy.*	*EI*	*+0.022*	*−0.08*	*−0.01*	*I*	---	*3*
	10	*Fn.*	*EI*	*+0.019*	*+0.18*	*+0.19*	*0*	---	*2*
	16	*Wy.*	*WI*	*+0.026*	*−0.63*	*−0.55*	*0*	---	*3*
	27	*Wy.*	*WI*	*+0.048*	*−0.30*	*−0.22*	*0*	---	*3*
Dec.	*7*	*Fn.*	*EI*	*+0.090*	*+0.27*	*+0.35*	*0*	---	*2½*
	8	*Hd.*	*EI*	*+0.070*	*−0.41*	*−0.28*	*0*	---	*2½*
	19	*Hd.*	*WI*	*+0.094*	*−1.48*	*−1.37*	*0*	---	*3*
1917									
Jan.	*11*	*Wy.*	*EI*	*+0.085*	*0.00*	*+0.10*	*0*	---	*3½*
Mar.	*21*	*Fn.*	*EI*	*+0.030*	*+0.41*	*+0.43*	*0*	---	*3*
	25	*Wy.*	*WI*	*+0.024*	*−0.22*	*−0.22*	*0*	---	*3½*
	29	*Fn.*	*WI*	*+0.121*	*+0.09*	*+0.09*	*0*	---	*2½*
Apr.	*3*	*Hd.*	*WI*	*+0.053*	----	----	*0*	---	*3*
July	30	Wy.	EII	+0.060		+0.03	II	2.6	2
Aug.	7	Wy.	WII	+0.060		−0.06	II	3.4	2½
	13	Fn.	WII	+0.048		+0.02	I	2.9	2½
	20	Fn.	WII	+0.053		+0.10	0	---	2
	21	Wy.	WII	+0.054		+0.02	II	2.6	2½
	25	Wy.	EII	+0.050		0.00	I	2.9	2½
Sept.	4	Fn.	EII	+0.059		+1.27	I	2.9	2
	11	Fn.	EII	+0.030		−0.04	I	2.4	2
	13	Hd.	EII	+0.044		+0.69	I	2.9	2
	17	Hd.	EII	+0.051		+0.13	I	2.4	2
	18	Wy.	EII	+0.084		+0.54	I	2.9	2½
	20	Hd.	WII	+0.076		+0.61	I	2.9	3
Oct.	2	Fn.	WII	+0.078		−0.32	I	2.9	2
	4	Hd.	WII	+0.059		+0.36	I	2.4	3
	11	Hd.	EII	+0.069		+0.21	I	2.9	3
	15	Fn.	EII	+0.054		−0.02	I	2.9	3
Nov.	*20*	*Fn.*	*WII*	*+0.020*	*−0.02*	*+0.05*	*0*	---	*3*
Dec.	*20*	*Hd.*	*EII*	*+0.086*	*−0.37*	*−0.23*	*0*	---	*3*
1918									
Feb.	*3*	*Hd.*	*WII*	*+0.183*	*+0.22*	*+0.40*	*0*	---	*3*
	10	*Wy.*	*WII*	*+0.040*	*−0.58*	*−0.48*	*0*	---	*4*
	13	*Wy.*	*WII*	*+0.083*	*+0.41*	*+0.29*	*0*	---	*3½*
	17	*Fn.*	*EII*	*+0.070*	*−1.02*	*−0.95*	*0*	---	*3½*
	26	*Hd.*	*EII*	*+0.098*	*−0.66*	*−0.51*	*0*	---	*3*
Mar.	*7*	*Wy.*	*EII*	*+0.013*	*−0.18*	*−0.11*	*0*	---	*3*
	17	*Wy.*	*WII*	-----	*+0.09*	*+0.26*	*0*	---	*3½*
	18	*Hd.*	*WII*	*+0.061*	*−0.44*	*−0.31*	*0*	---	*3½*
	25	*Wy.*	*WII*	*+0.087*	*+0.02*	*+0.02*	*0*	---	*3½*
	27	*Fn.*	*WII*	*+0.082*	*−0.28*	*−0.25*	*0*	---	*3*

			s	″	″			
1918								
Apr. 4	*Fn.*	*EII*	*+0.005*	*−0.49*	*−0.45*	*0*	---	*3*
15	*Wy.*	*EII*	*+0.053*	*−0.06*	*−0.12*	*0*	---	*3*
21	*Fn.*	*EII*	-----	*−0.25*	*−0.21*	*0*	---	*3*
Aug. 8	Wy.	WII	+0.035		+0.12	I	3.9	3
Mean------	1914.56		+0.053		+0.17			
	1915.16							
Corr------			−0.081		−0.21			

δ Cygni [1]

	h	m	s	°	′	″
	19	42	9.791	+44	54	38.53

1912								
July 25	Fn.	WII	−0.003		+0.96	I	2.7	2½
27	Fn.	WII	−0.005		+0.54	I	2.4	2
Aug. 5	Fn.	EII	−0.048		−0.06	I	2.6	2
7	Fn.	EII	+0.004		+0.37	I	2.5	2
1914								
July 8	Fn.	WI	+0.027		−0.20	I	---	2
9	Hd.	WI	−0.029		+0.69	I	2.9	2
18	Hd.	EI	−0.016		+0.29	I	2.9	2
19	Hd.	EI	−0.023		+0.76	I	2.9	2
Oct. 17	Wy.	EI	−0.033		----	I	2.9	2½
20	Hd.	EI	−0.005		----	I	2.9	3
1915								
Sept. 27	Hd.	EI	−0.054		----	I	2.9	2
1916								
Sept. 4	Wy.	WI	−0.041		----	I	2.9	2
Oct. 9	Hd.	WI	−0.019		----	I	2.9	2
Dec. 5	*Hd.*	*EI*	*−0.046*	----	----	*0*	---	*3*
1918								
Aug. 14	Wy.	WII	−0.014		----	I	3.4	3
Mean------	1914.70		−0.018		+0.42			
	1913.56							
Corr------			−0.081		−0.28			

δ Sagittæ

	h	m	s	°	′	″
	19	43	22.493	+18	18	42.31

1913								
June 6	Fn.	WII	+0.009		−0.62	I	3.9	2½
10	R.	WII	+0.009		−0.32	I	2.9	2
12	Hd.	EII	+0.007		−0.67	I	3.4	2
13	Fn.	EII	+0.029		−0.06	I	3.4	2½
1914								
June 29	Fn.	WI	+0.003		−0.25	I	3.9	3
30	Hd.	WI	−0.007		−0.38	I	---	3
July 27	Fn.	EI	+0.039		−0.76	0	---	2½
31	Fn.	EI	+0.030		−1.07	I	3.9	2½
Mean------	1913.99		+0.015		−0.52			
Corr------			−0.081		−0.23			

Oeltzen 19977

			h	m	s	°	′	″			
1911											
June 30	Hd.	WII	19	43	34.755	−29	0	39.34	0	6.5	3
July 1	R.	WII			34.756			40.51	0	---	--
5	R.	EII			34.810			40.59	0	5.5	--
6	Fn.	EII			34.752			39.43	0	6.7	3½
1915											
June 24	Fn.	EI			34.800			40.07	0	7.5	3
28	Wy.	EI			34.806			39.94	0	7.0	3½
July 2	Hd.	WI			34.828			40.85	0	7.0	3
6	Fn.	WI			34.747			39.32	0	6.5	3
Mean------	1913.50		19	43	34.782	−29	0	40.01			
Corr------					−0.081			+0.01			

Weisse$_2$ XIX 1346

			h	m	s	°	′	″			
1913											
June 17	Fn.	EII	19	44	2.328	+25	9	39.29	0	6.0	2
18	R.	EII			2.328			39.26	0	6.5	2
July 7	Hd.	WII			2.313			40.26	0	6.0	3
8	Fn.	WII			2.340			39.35	0	6.3	2
1914											
July 16	Fn.	WI			2.309			40.26	0	6.0	2½
20	Fn.	EI			2.297			40.30	0	6.0	2
22	Fn.	EI			2.330			39.75	0	6.2	2
Aug. 13	Hd.	WI			2.327			40.61	0	6.0	2
Mean------	1914.03		19	44	2.322	+25	9	39.88			
Corr------					−0.081			−0.24			

ζ Sagittæ *mean*

			h	m	s	°	′	″			
1911											
July 10	Fn.	WII	19	44	58.971	+18	54	56.68	0	5.4	1½
12	R.	WII			58.945			57.05	0	5.5	2
18	Hd.	EII			58.953			57.01	0	5.5	3½
19	R.	EII			58.935			56.42	0	---	1
1915											
July 8	Hd.	WI			58.966			57.10	I	4.9	2
9	Fn.	WI			58.986			57.16	0	5.5	2½
Aug. 10	An.	EI			58.975			57.09	I	5.9	2
12	Fn.	EI			58.972			56.95	0	5.5	2
Mean------	1913.55		19	44	58.963	+18	54	56.93			
Corr------					−0.081			−0.23			

Bradley 2519

			h	m	s	°	′	″			
1913											
June 19	Hd.	EII	19	45	49.807	−10	59	33.38	0	6.0	3
24	Fn.	EII			49.774			33.43	0	6.0	2
July 10	Fn.	WII			49.802			-----	0	5.8	2½
11	Hd.	WII			49.779			32.32	0	6.2	3
12	Fn.	WII			49.823			33.51	0	6.0	3
1914											
Aug. 7	Hd.	EI			49.810			32.76	0	6.0	3
8	Wy.	EI			49.804			33.54	0	6.0	3
14	Wy.	WI			49.758			33.17	0	6.5	2½
15	Fn.	WI			49.816			33.03	0	5.8	3
Mean------	1914.00		19	45	49.797	−10	59	33.14			
	1914.06										
Corr------					−0.081			−0.14			

Lalande 37758

			h	m	s	°	′	″			
1911											
July 14	Hd.	WII	19	45	55.483	+7	40	29.51	0	7.0	2
15	R.	WII			55.511			29.59	0	---	--
22	R.	EII			55.521			29.78	0	7.0	2
24	Fn.	EII			55.593			29.23	0	7.2	-
1915											
June 17	Fn.	WI			55.511			29.22	0	6.5	2½
18	Hd.	WI			55.518			28.88	0	---	2
22	Wy.	EI			55.530			29.31	0	7.0	2½
July 24	An.	EI			55.529			29.72	0	6.0	2½
Mean------	1913.52		19	45	55.524	+7	40	29.40			
Corr------					−0.081			−0.20			

α Aquilæ

	h	m	s	°	′	″
	19	46	23.707	+8	37	49.99

1911									
July 27	Fn.	WII	+0.044		+0.50	II	1.3	2	
28	Hd.	WII	+0.067		----	II	1.1	2	
31	Fn.	WII	+0.027		----				
Aug. 8	R.	EII	+0.090		----	II	0.6	1	
9	Fn.	EII	+0.036		----	II	1.3		
10	R.	EII	+0.058		----	II	0.6	1	
15	R.	EII	+0.068		----	II	0.1	2	
16	Fn.	EII	+0.094		----	II	1.4	2½	
17	R.	EII	+0.045		----	II	1.6	1	
18	Fn.	EII	+0.051		----	II	1.1	2	
21	Fn.	EII	+0.049		----	II	0.9	2	
22	R.	EII	+0.055		----	II	0.6	1	
Sept. 2	R.	WII	−0.015		----	II	0.6	1½	
12	Hd.	WII	+0.064		+0.73	II	1.1	3	

[1] Double: s. fol. component observed.

				s	"	"				
1911										
Sept.	13	R.	WII	+0.021		−0.02	II	0.6	1½	
	18	Fn.	WII	+0.071		+0.20	II	1.1	1½	
	19	Hd.	WII	+0.027		----	II	1.1	2	
	20	R.	WII	+0.072		−0.44	II	0.6	2½	
	22	Hd.	WII	+0.071		+0.48	I	---	2½	
	25	Fn.	EII	+0.099		−0.06	II	0.3	2	
	28	Fn.	EII	+0.055		−0.02	II	0.8	2	
	29	Hd.	EII	+0.090		−0.34	II	1.1	3½	
Oct.	4	Hd.	EII	+0.037		----	0	---	3½	
	5	Hd.	EII	+0.054		----	I	---	--	
	6	Hd.	EII	+0.021		----	II	1.1	2	
	9	Fn.	WII	-----		+0.17	0	---	--	
	11	Fn.	WII	+0.046		----	II	1.3	2½	
	12	Fn.	WII	+0.054		----	II	0.9	2	
	13	Fn.	WII	+0.055		----	II	0.8	1½	
	18	Hd.	WII	+0.054		----	II	0.9	2	
1912										
Feb.	*15*	*Hd.*	*EII*	*+0.093*	*−0.62*	*−0.58*	*I*	---	*2*	
	22	*Hd.*	*WII*	*+0.071*	*+0.14*	*+0.15*	*0*	---	*3½*	
	29	*Hd.*	*WII*	*+0.039*	*−0.07*	*−0.02*	*I*	---	*2*	
Mar.	*18*	*Hd.*	*EII*	*+0.063*	*−0.60*	*−0.62*	*0*	---	*2*	
	25	*Hd.*	*WII*	*+0.081*	*+0.70*	*+0.68*	*0*	---	*3*	
	29	*R.*	*WII*	*+0.075*	----	----	*0*	---	--	
	31	*Fn.*	*WII*	-----	*−0.31*	*−0.36*	*0*	---	--	
Apr.	*2*	*R.*	*WII*	*+0.078*	----	----	*II*	---	--	
	4	*Hd.*	*EII*	*+0.052*	*+0.70*	*+0.68*	*0*	---	*3*	
	5	*R.*	*EII*	*+0.069*	----	----	*I*	---	--	
	7	*Fn.*	*WII*	*+0.046*	----	----	*0*	---	*3*	
	8	*Hd.*	*WII*	*+0.047*	*+0.23*	*+0.19*	*0*	---	--	
	10	*Fn.*	*WII*	-----	*+0.53*	*+0.45*	*I*	---	*2*	
	11	*Hd.*	*EII*	-----	*−0.21*	*−0.30*	*I*	---	*3*	
Aug.	29	R.	WII	+0.052		----	II	1.1	2	
Sept.	9	Hd.	EII	+0.063		+0.21	II	1.1	2	
	17	R.	WII	+0.047		−0.03	II	1.6	2	
	20	Hd.	WII	+0.039		+0.82	II	1.1	2	
	27	Hd.	EII	+0.037		+0.02	II	1.1	3	
	30	Hd.	EII	+0.071		+0.19	II	1.1	2	
Oct.	1	Hd.	EII	+0.060		+0.35	II	1.1	3	
	2	R.	EII	+0.019		+0.24	III	0.0	1	
	3	Hd.	EII	+0.051		+0.21	II	0.6	2	
	9	Hd.	WII	+0.038		+0.09	II	1.1	1	
	10	Hd.	WII	+0.061		+0.02	II	2.1	3	
	15	Hd.	WII	+0.075		+0.39	II	1.1	2	
1913										
Feb.	*3*	*Hd.*	*WII*	*+0.063*	*−0.32*	*−0.23*	*0*	---	*3*	
	4	*Fn.*	*WII*	*+0.061*	*−0.33*	*−0.24*	*0*	---	*3½*	
	5	*R.*	*WII*	*+0.062*	*−0.66*	*−0.58*	*0*	---	*4*	
	6	*Fn.*	*WII*	*+0.100*	*+0.16*	*+0.24*	*0*	---	*4*	
	11	*Fn.*	*WII*	*+0.012*	*−0.34*	*−0.22*	*0*	---	*3½*	
	12	*R.*	*WII*	*+0.112*	*−1.26*	*−1.16*	*0*	---	*4*	
	14	*Hd.*	*WII*	*+0.056*	*−0.50*	*−0.37*	*0*	---	*3½*	
	17	*Hd.*	*EII*	*+0.089*	*−0.15*	*−0.10*	*I*	---	*3*	
	18	*Fn.*	*EII*	*+0.129*	*+0.39*	*+0.52*	*0*	---	*4*	
	24	*Hd.*	*EII*	*+0.112*	*−0.59*	*−0.51*	*0*	---	*3*	
	27	*Fn.*	*EII*	*+0.134*	*−0.40*	*−0.42*	*0*	---	*4*	
Mar.	*2*	*Fn.*	*EII*	*+0.114*	*−0.36*	*−0.38*	*0*	---	*3½*	
	4	*Fn.*	*EII*	*+0.022*	*+0.01*	*+0.05*	*0*	---	*3*	
	6	*Fn.*	*EII*	*+0.064*	*+0.05*	*+0.15*	*0*	---	*4*	
	11	*Fn.*	*EII*	*+0.075*	*+0.67*	*+0.65*	*0*	---	*2½*	
	16	*Fn.*	*WII*	*+0.069*	*−0.18*	*−0.20*	*0*	---	*3½*	
	17	*Hd.*	*WII*	*+0.065*	*+0.58*	*+0.65*	*I*	---	*3*	
	18	*Fn.*	*WII*	----	*+0.20*	*+0.13*	*0*	---	*3*	
May	28	R.	WII	+0.066		−0.24	II	1.1	2	
July	3	R.	EII	+0.056		----	II	1.1	2	
	14	Fn.	WII	+0.080		+0.25	II	1.1	2½	
Aug.	7	R.–Fn.	WII	-----		−0.55	II	---	2	R.
	7	R.–Fn.	WII	-----		+0.08	II	1.1	2	
	14	R.–Fn.	WII	-----		−1.46	II	---	3	R.
	14	R.–Fn.	WII	-----		+0.48	II	1.1	2	
	15	Fn.–R.	WII	-----		−0.72	II	---	2	R.
	15	Fn.–R.	WII	-----		+0.11	II	0.3	2	
	16	Fn.–R.	WII	-----		−0.18	II	---	1½	R.
	16	Fn.–R.	WII	-----		−0.26	II	0.4	1½	
	20	R.–Fn.	EII	-----		−0.51	II	---	2	R.
	20	R.–Fn.	EII	-----		−0.10	III	0.0	2	
	21	R.–Fn.	EII	-----		−0.69	II	---	2	R.
	21	R.–Fn.	EII	-----		+0.49	III	0.0	3	
	25	R.–Fn.	EII	-----		−0.41	II		2	R.

				s	"	"				
1913										
Aug.	25	R.–Fn.	EII	-----		−0.50	III	0.0	2	
	26	Fn.–R.	EII	-----		−0.76	II	---	2½	R.
	26	Fn.–R.	EII	-----		−0.17	II	1.6	2½	
	30	Fn.–R.	EII	-----		−0.65	II	---	2	R.
	30	Fn.–R.	EII	-----		+0.78	II	---	2	
Sept.	2	Fn.–R.	EII	-----		−0.85	II	---	2½	R.
	2	Fn.–R.	EII	-----		+0.72	II	0.6	2½	
	4	Fn.–R.	EII	-----		−0.46	0	---	2	R.
	4	Fn.–R.	EII	-----		0.00	II	0.1	2	
1914										
Feb.	*1*	*Fn.*	*WI*	*+0.063*	*−0.65*	*−0.56*	*0*	---	*3½*	
	3	*Hd.*	*EI*	*+0.082*	*−0.53*	*−0.52*	*0*	---	*4*	
	8	*Fn.*	*EI*	*+0.085*	*−0.13*	*−0.04*	*0*	---	*4*	
	20	*Hd.*	*WI*	*+0.028*	*−0.49*	*−0.40*	*I*	---	*3*	
	25	*Fn.*	*EI*	*+0.103*	*+0.27*	*+0.31*	*0*	---	*3½*	
Mar.	*9*	*Wy.*	*WI*	*+0.140*	*−0.52*	*−0.51*	*0*	---	*3*	
	11	*Fn.*	*WI*	*+0.072*	*+0.18*	*+0.25*	*0*	---	*2½*	
	12	*Wy.*	*WI*	*+0.159*	*+0.57*	*+0.56*	*0*	---	*3*	
	13	*Hd.*	*WI*	*+0.067*	*+0.03*	*+0.08*	*0*	---	*3*	
	23	*Wy.*	*EI*	*+0.094*	*−0.11*	*−0.13*	*0*	---	*2½*	
July	27	Fn.	EI	+0.060		+0.55	II	---	2½	
Aug.	3	Fn.	EI	+0.042		----	II	1.1	2	
	4	Wy.	EI	+0.044		+0.83	II	2.1	2½	
	6	Fn.	EI	+0.026		+0.29	II	---	2	
	20	Fn.	WI	+0.049		+0.34	II	---	2	
	30	Wy.	WI	+0.029		+0.29	II	1.1	3	
	31	Fn.	WI	+0.042		+0.03	II	1.1	2	
Sept.	1	An.	WI	-----		+0.84	0	---	--	
	2	Wy.	WI	+0.024		+0.06	II	1.1	3	
	4	Fn.	WI	+0.092		−0.18	I	---	2½	
	5	Wy.	WI	+0.033		+0.06	III	0.5	2	
	8	Wy.	EI	+0.043		----	II	1.1	2½	
	9	Fn.	EI	+0.040		----	II	1.1	2½	
	14	Fn.	EI	+0.037		----	II	1.1	2	
	18	An.	EI	+0.055		+0.17	II	---	2½	
	19	Wy.	EI	+0.034		+0.45	II	1.3	2	
	20	An.	EI	+0.003		−0.90	II	---	1½	
	28	Hd.	WI	+0.059		+0.30	II	1.1	3	
Oct.	17	Wy.	EI	+0.056		+0.62	II	1.1	2½	
	22	An.	EI	-----		+0.46	II	1.1	3	
1915										
Jan.	*15*	*An.*	*WI*	*+0.071*	----	----	*0*	---	*3½*	
	25	*An.*	*EI*	*+0.063*	*0.00*	*+0.15*	*0*	---	*4*	
	28	*Wy.*	*EI*	*+0.091*	*−0.67*	*−0.52*	*0*	---	*4*	
Mar.	*29*	*Wy.*	*EI*	*+0.070*	----	----	*0*	---	*3½*	
	30	*An.*	*EI*	*+0.089*	*−0.18*	*−0.20*	*I*	---	*2*	
June	4	An.	WI	+0.061		----	II	1.1	3	
	9	An.	EI	+0.064		----	III	1.0	3	
July	13	Fn.	WI	+0.040		----	II	---	3	
	17	An.	WI	+0.061		+0.34	II	---	2½	
	20	Hd.	EI	+0.024		+0.57	II	---	2½	
Aug.	7	An.	EI	+0.073		----	I	---	3	
	13	An.	EI	+0.064		+1.01	II	---	3	
	14	Wy.	EI	+0.066		+0.57	II	1.6	2½	
	15	Wy.	EI	+0.062		+0.33	II	1.6	2½	
	17	An.	WI	+0.064		+0.14	I	---	3	
	18	Wy.	WI	+0.072		−0.31	II	1.6	3	
	19	Fn.	WI	+0.033		−0.47	I	---	2	
	21	Wy.	WI	+0.039		+0.10	II	1.6	3½	
	25	Wy.	WI	+0.022		+0.93	II	1.1	2	
	26	Hd.	WI	+0.045		+0.57	II	---	2	
	31	Wy.	WI	+0.046		−0.09	I	---	3½	
Sept.	1	Hd.	WI	+0.058		+0.52	II	---	3	
	3	Hd.	WI	+0.047		+0.11	II	1.6	2	
	10	Hd.	WI	+0.056		+0.48	II	1.1	2	
	13	Hd.	EI	+0.055		+0.40	II	1.1	2	
	14	Wy.	EI	+0.047		+0.59	II	1.1	2½	
	15	Hd.	EI	+0.053		+0.62	II	1.6	2	
	16	Wy.	EI	+0.069		+0.27	II	1.1	2½	
	20	Hd.	EI	+0.049		+0.76	II	1.1	3	
	22	Hd.	EI	+0.041		+0.72	II	1.1	3	
	23	Hd.	EI	+0.074		----	II	1.1	2	
	25	Wy.	WI	+0.075		+0.69	II	1.1	3	
	27	Hd.	EI	+0.072		+0.30	II	1.1	3	
	28	Fn.	EI	+0.072		+1.15	II	1.6	2½	
Oct.	4	Wy.	WI	+0.050		−0.29	II	1.1	3	
	6	Fn.	WI	---		+0.02	I	---	2½	

				s	"	"			
1916									
Jan.	*18*	*Fn.*	*EI*	*+0.091*	*+0.54*	*+0.59*	*0*	---	*3½*
	20	*Hd.*	*EI*	-----	*+0.13*	*+0.30*	*I*	---	*3*
	23	*Hd.*	*EI*	*+0.060*	*+0.18*	*+0.34*	*0*	---	*3½*
Feb.	*2*	*Hd.*	*EI*	*+0.122*	*−0.42*	*−0.19*	*0*	---	*3*
	3	*Wy.*	*EI*	-----	*+0.15*	*+0.35*	*I*	---	*4*
	6	*Wy.*	*EI*	*+0.119*	*−0.78*	*−0.74*	*0*	---	*4*
	9	*Fn.*	*WI*	*+0.071*	----	----	*0*	---	*3½*
	15	*Wy.*	*WI*	*+0.090*	*+0.18*	*+0.18*	*0*	---	*4*
	20	*Fn.*	*WI*	*+0.113*	----	----	*0*	---	*3½*
	27	*Fn.*	*WI*	*+0.073*	*−0.34*	*−0.27*	*0*	---	*4*
	29	*Wy.*	*WI*	-----	*+0.25*	*+0.37*	*I*	---	*3½*
Mar.	*3*	*Wy.*	*WI*	*+0.043*	*−0.14*	*−0.04*	*I*	---	*3*
Aug.	8	Fn.	EI	+0.057		+1.35	II	1.6	3
	14	Wy.	EI	+0.059		+0.91	I	---	3
	17	Fn.	EI	+0.063		+0.28	II	1.1	2
	21	Wy.	EI	+0.062		+0.33	II	1.1	3
	24	Wy.	WI	+0.041		+0.29	II	2.1	3
	25	Fn.	WI	+0.074		+0.69	II	0.6	2½
	28	Wy.	WI	+0.082		+0.43	II	1.6	3
Sept.	1	Fn.	WI	+0.028		−0.56	0	---	3
	5	Wy.	WI	+0.064		+0.30	II	2.1	2½
	7	Hd.	WI	+0.055		−0.13	II	1.1	2
	11	Hd.	WI	+0.053		+0.41	II	1.1	2
	19	Hd.	EI	+0.076		+0.40	II	1.1	2
	20	Wy.	EI	+0.065		+0.54	II	1.6	2
	25	Wy.	EI	+0.051		+0.17	II	1.6	2
	26	Hd.	EI	+0.057		+0.14	II	1.1	2
	28	Wy.	EI	+0.020		−0.28	II	1.6	2½
Oct.	2	Wy.	WI	+0.109		+0.05	I	---	3
	5	Hd.	WI	+0.054		----	II	1.1	2
	6	Wy.	WI	+0.085		−0.01	II	1.6	2
	10	Fn.	WI	+0.019		−0.10	II	1.1	2
	12	Hd.	WI	+0.061		+0.54	II	1.1	2
	17	Fn.	WI	+0.052		+0.67	II	1.6	3
	26	Wy.	EI	+0.016		−0.80	II	1.6	3
	27	Hd.	EI	+0.083		+0.83	II	1.6	2
Nov.	*2*	*Hd.*	*EI*	*+0.086*	*+0.02*	*+0.08*	*II*	---	*2*
	3	*Fn.*	*EI*	*+0.025*	*+1.30*	*+1.26*	*I*	---	*2*
	7	*Wy.*	*EI*	*+0.060*	*+0.32*	*+0.39*	*II*	---	*3*
	9	*Wy.*	*EI*	*+0.022*	*−0.34*	*−0.27*	*II*	---	*3*
	10	*Fn.*	*EI*	*+0.048*	*+0.61*	*+0.62*	*I*	---	*2*
	16	*Wy.*	*WI*	*+0.078*	*−0.49*	*−0.41*	*II*	---	*3*
	20	*Fn.*	*WI*	*+0.052*	*+0.06*	*+0.05*	*0*	---	*2½*
	27	*Wy.*	*WI*	*+0.047*	*−0.10*	*−0.01*	*I*	---	*3*
Dec.	*7*	*Fn.*	*EI*	*+0.093*	*−0.13*	*−0.04*	*0*	---	*2½*
	8	*Hd.*	*EI*	*+0.073*	*−0.08*	*+0.06*	*I*	---	*3*
	19	*Hd.*	*WI*	*+0.103*	*−0.69*	*−0.57*	*I*	---	*3*
	26	*Fn.*	*WI*	*+0.063*	*−0.62*	*−0.48*	*0*	---	*3½*
1917									
Jan.	*8*	*Wy.*	*EI*	*+0.132*	*+0.38*	*+0.55*	*0*	---	*3½*
	11	*Wy.*	*EI*	*+0.095*	*−0.90*	*−0.80*	*0*	---	*3½*
	12	*Fn.*	*EI*	*+0.108*	*+0.62*	*+0.76*	*0*	---	*3½*
	17	*Fn.*	*EI*	*+0.022*	*+0.45*	*+0.58*	*0*	---	*3½*
	18	*Hd.*	*EI*	*+0.151*	*−0.54*	*−0.40*	*0*	---	*3½*
Mar.	*18*	*Fn.*	*EI*	*+0.043*	*+0.84*	*+0.88*	*0*	---	*3*
	21	*Fn.*	*EI*	*+0.115*	*+0.83*	*+0.85*	*0*	---	*3*
	25	*Wy.*	*WI*	*+0.104*	*−0.29*	*−0.29*	*I*	---	*3½*
	29	*Fn.*	*WI*	*+0.127*	*+0.44*	*+0.44*	*0*	---	*4*
July	30	Wy.	EII	+0.054		+0.27	II	1.1	2½
Aug.	7	Wy.	WII	+0.077		+0.36	II	---	2½
	13	Fn.	WII	+0.082		+0.78	I	1.4	2½
	20	Fn.	WII	+0.067		+0.33	I	---	1½
	21	Wy.	WII	+0.063		+0.19	II	1.6	2
	25	Wy.	EII	+0.061		+0.58	II	---	3
Sept.	4	Fn.	EII	+0.028		+0.61	II	1.6	2½
	11	Fn.	EII	+0.074		+0.49	II	1.1	2½
	13	Hd.	EII	+0.082		+0.34	II	2.1	3
	17	Hd.	EII	+0.073		+0.32	II	2.1	2
	18	Wy.	EII	+0.074		+0.60	II	1.1	2
	20	Hd.	WII	+0.023		+0.46	II	1.6	3
Oct.	2	Fn.	WII	+0.027		+0.42	II	0.6	2
	4	Hd.	WII	+0.080		+0.37	II	1.6	3
	11	Hd.	EII	+0.068		+0.99	II	1.6	3
	15	Fn.	EI	+0.098		+0.18	II	1.1	3
Nov.	*20*	*Fn.*	*WII*	*+0.079*	*−0.30*	*−0.23*	*I*	---	*3*
Dec.	*20*	*Hd.*	*EII*	*+0.078*	*+0.03*	*+0.18*	*0*	---	*3*
	21	*Wy.*	*EII*	*+0.075*	*−0.27*	*−0.12*	*0*	---	*3½*

				s	"	"			
1918									
Jan.	*10*	*Fn.*	*EII*	*+0.133*	*−1.08*	*−0.97*	*0*	---	*3½*
	16	*Fn.*	*EII*	*+0.063*	*−0.35*	*−0.15*	*0*	---	*3½*
Feb.	*3*	*Hd.*	*WII*	*+0.180*	*−0.52*	*−0.32*	*0*	---	*3*
	10	*Wy.*	*WII*	*+0.042*	*−0.16*	*−0.06*	*0*	---	*3½*
	13	*Wy.*	*WII*	*+0.103*	*−0.25*	*−0.13*	*0*	---	*3½*
	14	*Fn.*	*WII*	*+0.062*	*−1.10*	*−1.08*	*0*	---	*3½*
	17	*Fn.*	*EII*	*+0.078*	*−0.19*	*−0.11*	*0*	---	*3½*
	20	*Fn.*	*EII*	*+0.060*	*−0.28*	*−0.22*	*0*	---	*3½*
	26	*Hd.*	*EII*	*+0.151*	*−0.77*	*−0.62*	*I*	---	*3*
Mar.	*3*	*Fn.*	*EII*	*+0.087*	*+0.27*	*+0.32*	*0*	---	*3½*
	7	*Wy.*	*EII*	*+0.051*	*+0.22*	*+0.30*	*I*	---	*3*
	17	*Wy.*	*WII*	*+0.034*	*+0.41*	*+0.38*	*I*	---	*3½*
	18	*Hd.*	*WII*	*+0.113*	*+0.02*	*+0.19*	*0*	---	*3½*
	25	*Wy.*	*WII*	*+0.129*	*+0.16*	*+0.17*	*I*	---	*3*
	27	*Fn.*	*WII*	*+0.108*	*+0.64*	*+0.69*	*0*	---	*3*
Apr.	*4*	*Fn.*	*EII*	*+0.035*	*+0.96*	*+1.01*	*I*	---	*3*
	15	*Wy.*	*EII*	*+0.069*	*0.00*	*−0.07*	*I*	---	*3*
	21	*Fn.*	*EII*	-----	*−0.08*	*−0.05*	*0*	---	*3*
Aug.	8	Wy.	WII	+0.048		+0.20	II	2.1	3
Mean			1914.80	+0.055		+0.29			
			1915.20						
Corr				−0.081		−0.21			

η Aquilæ

h	m	s	°	′	″
19	47	53.324	+0	46	26.63

1912									
July	25	Fn.	WII	+0.049		+0.08	0	---	2½
	27	Fn.	WII	+0.054		−0.54	0	5.0	2
Aug.	3	R.	EII	+0.049		+0.17	I	4.4	2
	5	Fn.	EII	+0.084		+0.01	0	5.1	2
1914									
Aug.	17	Fn.	WI	+0.007		+0.73	I	3.9	2
	18	Wy.	WI	+0.032		+0.32	I	3.9	2½
Sept.	9	Fn.	EI	+0.051		−0.32	I	3.9	2½
	10	An.	EI	+0.029		----	0	---	2
	14	Fn.	EI	+0.033		+0.50	I	3.9	2
Mean			1913.74	+0.043		+0.12			
			1913.62						
Corr				−0.081		−0.18			

ϵ Draconis [1]

h	m	s	°	′	″
19	48	29.119	+70	2	19.34

1911									
July	25	Hd.	EII	−0.13		+0.87	I	3.9	3½
	28	Hd.	WII	−0.04		+1.63	I	3.9	--
	31	Fn.	WII	−0.07		+1.76	0	---	--
Aug.	8	R.	EII	−0.03		+0.61	I	2.4	1
1915									
June	19	Wy.	WI	−0.05		+0.30	I	---	2½
	24	Fn.	EI	+0.05		+0.75	I	3.9	2½
	28	Wy.	EI	+0.05		+0.87	I	3.9	2½
July	2	Hd.	WI	−0.13		+1.04	I	4.4	2
Mean			1913.53	−0.044		+0.98			
Corr				−0.081		−0.34			

ϵ Draconis s. p.

h	m	s	°	′	″
19	48	29.119	+70	2	19.34

1913									
Jan.	3	Fn.	WII	−0.12		−0.50	0	---	4
	9	R.	WII	−0.11		+0.84	I	---	--
	18	R.	EII	−0.11		−2.16	0	---	--
	22	Fn.	EII	−0.08		−0.11	0	---	3
Dec.	20	R.	WI	+0.03		−0.52	0	---	--
	26	Fn.	WI	−0.14		+0.45	0	---	4
1914									
Jan.	5	Hd.	EI	−0.11		+0.59	0	5.5	4
	8	Hd.	EI	−0.23		−0.54	0	---	4
Mean			1913.52	−0.109		−0.24			
Corr				−0.081		+0.61			

[1] Double; s. component observed.

Paris 27025

			h m s	° ′ ″			
1911							
June 29	Fn.	WII	19 48 35.971	−3 20 53.16	0	---	--
30	Hd.	WII	35.986	53.08	0	5.8	--
July 3	Fn.	EII	35.958	53.51	0	---	--
5	R.	EII	36.006	53.85	0	5.0	--
1915							
July 6	Fn.	WI	35.939	53.08	0	6.5	3
8	Hd.	WI	35.989	53.33	0	6.0	3
22	Fn.	EI	35.980	52.30	0	6.0	3
27	Hd.	EI	36.007	52.67	0	---	2
Mean	1913.52		19 48 35.980	−3 20 53.12			
Corr			−0.081	−0.17			

Lacaille 8262

			h m s	° ′ ″			
1913							
June 10	R.	WII	19 48 54.467	−24 9 55.98	0	6.0	3½
12	Hd.	EII	54.491	56.83	0	7.5	3
13	Fn.	EII	54.425	57.30	0	7.3	3½
July 7	Hd.	WII	54.463	55.94	0	7.0	3
1914							
July 31	Fn.	EI	54.520	57.66	0	6.5	3½
Aug. 3	Fn.	EI	54.520	57.43	0	7.0	3
13	Hd.	WI	54.440	57.34	0	6.5	2½
14	Wy.	WI	54.427	57.92	0	---	3
Mean	1914.03		19 48 54.469	−24 9 57.05			
Corr			−0.081	−0.04			

Bradley 2531

			h m s	° ′ ″			
1911							
July 1	R.	WII	19 49 45.369	−8 27 45.06	0	---	--
6	Fn.	EII	45.394	43.94	0	6.4	3
12	R.	WII	45.431	44.42	0	---	2
18	Hd.	EII	45.402	43.91	0	5.5	3½
1915							
July 9	Fn.	WI	45.387	44.73	0	6.0	2½
13	Fn.	WI	45.430	45.14	0	6.0	3
Aug. 9	Fn.	EI	45.417	44.30	0	---	3
10	An.	EI	45.411	44.03	0	6.5	2½
Mean	1913.54		19 49 45.405	−8 27 44.44			
Corr			−0.081	−0.15			

Weisse$_2$ XIX 1585

			h m s	° ′ ″			
1913							
June 17	Fn.	EII	19 50 23.577	+34 20 54.04	0	7.2	2
18	R.	EII	23.563	54.38	0	7.0	2
July 8	Fn.	WII	23.509	54.59	0	7.0	2
10	Fn.	WII	23.559	54.33	0	7.0	2
1914							
June 29	Fn.	WI	23.574	54.57	0	7.0	3
30	Hd.	WI	23.532	54.30	0	6.5	3
July 22	Fn.	EI	23.493	54.37	0	7.0	2
27	Fn.	EI	23.512	55.45	0	---	3
28	Hd.	EI	23.548	53.84	0	7.0	2
Mean	1914.07		19 50 23.541	+34 20 54.43			
Corr			−0.081	−0.26			

Groombridge 2964

			h m s	° ′ ″			
1911							
Aug. 1	Hd.	WII	19 50 34.996	+41 7 14.46	0	7.0	2½
6	R.	WII	34.918	13.69	0	6.5	1
9	Fn.	EII	34.946	14.14	0	---	--
10	R.	EII	34.975	13.38	0	7.0	1
1915							
July 17	An.	WI	34.943	14.25	0	7.0	2
Aug. 12	Fn.	EI	34.989	14.57	0	6.5	2
13	An.	EI	34.990	14.95	0	7.5	3
17	An.	WI	34.926	13.57	0	7.5	3
Mean	1913.60		19 50 34.960	+41 7 14.13			
Corr			−0.081	−0.27			

β Aquilæ

			h m s	° ′ ″				
			19 50 53.556	+6 10 51.32				
1911			s	″	″			
Aug. 7	Fn.	WII	+0.033		−0.54	I	3.9	1½
15	R.	EII	+0.021		----	I	2.4	2
16	Fn.	EII	+0.046		----	I	3.3	2½
17	R.	EII	+0.038		−0.90	0	---	1
18	Fn.	EII	+0.027		−0.04	I	3.4	--
21	Fn.	EII	0.000		+0.06	I	3.5	2
22	R.	EII	+0.072		+0.06	I	3.4	1
Sept. 1	Fn.	WII	+0.081		----	I	---	1½
2	R.	WII	+0.066		+0.47	I	3.4	1½
6	R.	WII	+0.061		+0.12	I	3.9	1
11	Fn.	WII	+0.067		−0.63	I	3.5	1½
13	R.	WII	+0.045		+0.07	II	2.6	1
19	Hd.	WII	+0.037		+0.30	I	3.4	2
20	R.	WII	+0.066		−0.53	I	2.9	2½
25	Fn.	EII	+0.013		+0.35	I	3.3	2
26	Hd.	EII	+0.025		−0.16	I	3.4	3
28	Fn.	EII	+0.036		[+1.94]	I	2.6	2
29	Hd.	EII	+0.030		−1.07	I	2.7	3½
30	R.	EII	+0.007		0.00	I	2.9	2½
Oct. 5	Hd.	EII	+0.045		----	I	---	--
6	Hd.	EII	+0.066		----	I	3.4	--
11	Fn.	WII	+0.052		−0.16	I	---	--
12	Fn.	WII	+0.062		----	I	3.4	2
13	Fn.	WII	+0.056		+0.56	I	3.2	1½
18	Hd.	WII	+0.039		+0.06	I	3.1	2
1912								
Mar. 29	*R.*	*WII*	*+0.042*	*−0.50*	*−0.50*	*0*	---	--
Apr. 2	*R.*	*WII*	*+0.075*	*+0.14*	*+0.16*	*0*	---	--
7	*Fn.*	*WII*	*+0.010*	*[+2.49]*	*[+2.53]*	*0*	---	*3*
8	*Hd.*	*WII*	*+0.072*	*−0.50*	*−0.55*	*0*	---	*3½*
10	*Fn.*	*WII*	-----	*−0.32*	*−0.40*	*0*	---	*2*
18	*Hd.*	*EII*	*+0.061*	*−0.17*	*−0.17*	*0*	---	*3*
July 26	R.	WII	+0.067		−0.58	I	4.4	4
Aug. 1	R.	WII	+0.047		+0.44	0	---	3
15	R.	WII	+0.053		−0.14	0	---	4
29	R.	WII	+0.048		----	I	3.4	2
Sept. 9	Hd.	EII	+0.055		−0.11	I	3.4	2
17	R.	WII	+0.052		−0.33	I	3.9	3
20	Hd.	WII	+0.018		+0.23	I	3.1	2
21	R.	WII	+0.013		+0.29	0	---	2½
27	Hd.	EII	+0.033		+0.03	I	2.9	3
30	Hd.	EII	+0.058		+0.46	I	2.9	2
Oct. 1	Hd.	EII	+0.026		+0.10	I	3.4	3
2	R.	EII	+0.069		----	I	2.9	1
3	Hd.	EII	+0.025		+0.11	I	3.9	2
8	Hd.	WII	+0.042		−0.31	0	---	2
9	Hd.	WII	+0.039		−0.57	I	3.4	1
10	Hd.	WII	+0.046		−0.83	I	3.9	3
15	Hd.	WII	+0.025		−0.52	I	3.4	3
1913								
Mar. 17	*Hd.*	*WII*	*+0.073*	*+0.42*	*+0.49*	*0*	---	*3*
May 28	R.	WII	+0.040		−0.53	I	3.4	2
July 3	R.	EII	+0.053		+0.14	I	3.4	2
1914								
Mar. 13	*Hd.*	*WI*	*+0.052*	*−0.47*	*−0.44*	*0*	---	*3*
23	*Wy.*	*EI*	*+0.120*	*−0.72*	*−0.75*	*0*	---	*2½*
Aug. 4	Wy.	EI	+0.071		−0.13	I	3.9	2½
6	Fn.	EI	+0.034		----	0	---	2
7	Hd.	EI	+0.068		----	I	3.4	2
15	Fn.	WI	+0.039		----	I	3.9	2½
17	Fn.	WI	+0.025		+0.03	I	3.9	2½
20	Fn.	WI	+0.039		----	I	---	2½
22	An.	WI	+0.077		----	I	3.9	2
30	Wy.	WI	+0.068		----	I	3.4	3
31	Fn.	WI	+0.077		----	I	3.4	2
Sept. 4	Fn.	WI	+0.108		−0.26	I	3.9	2½
5	Wy.	WI	+0.032		−0.57	II	3.1	2½
8	Wy.	EI	+0.047		----	I	2.9	3
14	Fn.	EI	+0.028		−0.16	I	3.9	2½
15	An.	EI	+0.015		+0.34	II	---	2
18	An.	EI	+0.054		−0.43	I	---	2½
19	Wy.	EI	+0.059		+0.17	I	3.4	2
20	An.	EI	+0.058		−0.13	I	2.4	2
28	Hd.	WI	+0.086		−0.55	I	3.4	3

				″	″			
1915								
Mar. 30	*An.*	*EI*	*+0. 081*	*−0. 09*	*−0. 11*	*0*	---	*2½*
July 20	Hd.	EI	+0. 043		−0. 31	0	---	3
Aug. 18	Wy.	WI	+0. 055		−0. 67	I	3. 9	3
19	Fn.	WI	+0. 040		−0. 23	0	---	2
21	Wy.	WI	+0. 033		−1. 28	I	3. 9	3½
25	Wy.	WI	+0. 026		−0. 17	I	3. 9	2½
26	Hd.	WI	+0. 040		−0. 29	0	---	2
31	Wy.	WI	+0. 055		−1. 11	0	---	3½
Sept. 1	Hd.	WI	+0. 054		−0. 39	I	---	3
3	Hd.	WI	+0. 048		−0. 05	I	---	2
10	Hd.	WI	+0. 027		−0. 54	I	3. 4	2
13	Hd.	EI	+0. 024		−0. 26	I	3. 4	2
14	Wy.	EI	+0. 014		−0. 27	I	3. 4	2½
15	Hd.	EI	+0. 041		−0. 15	I	3. 4	2
16	Wy.	EI	+0. 034		−0. 32	I	3. 4	2½
20	Hd.	EI	+0. 038		+0. 24	I	3. 4	2½
22	Hd.	EI	+0. 063		+0. 19	I	3. 4	2½
23	Hd.	EI	+0. 034		----	I	3. 4	2
25	Wy.	EI	+0. 052		−0. 08	I	3. 4	3
27	Hd.	EI	+0. 045		+0. 26	I	3. 4	3
28	Fn.	EI	+0. 053		+0. 29	I	3. 9	2½
Oct. 4	Wy.	WI	+0. 034		−0. 52	I	3. 9	3
1916								
Feb. 29	*Wy.*	*WI*	-----	*−1. 09*	*−0. 95*	*0*	---	*3*
Mean------		1913. 60	+0. 045		−0. 18			
		1913. 67						
Corr----------			−0. 081		−0. 19			

g Sagittarii

			h	m	s	°	′	″			
1911											
July 15	R.	WII	19	52	50. 907	−15	43	51. 32	0	---	3
19	R.	EII			50. 860			51. 49	0	4. 5	1
20	Fn.	EII			50. 839			51. 54	0	---	--
27	Fn.	WII			50. 906			51. 25	0	---	2
1915											
June 17	Fn.	WI			50. 871			51. 28	0	5. 5	2½
19	Wy.	WI			50. 895			52. 19	0	---	3½
22	Wy.	EI			50. 901			51. 07	0	6. 0	3
24	Fn.	EI			50. 876			51. 78	0	5. 5	2½
Mean------		1913. 51	19	52	50. 882	−15	43	51. 49			
Corr----------					−0. 081			−0. 11			

η Cygni

			h	m	s	°	′	″			
1913											
June 19	Hd.	EII	19	52	55. 789	+34	50	37. 30	I	3. 9	2
24	Fn.	EII			55. 800			37. 56	I	3. 9	2
July 11	Hd.	WII			55. 800			37. 85	I	4. 4	2
12	Fn.	WII			55. 739			38. 12	I	3. 7	2½
1914											
Aug. 6	Fn.	EI			55. 761			37. 45	0	---	2
7	Hd.	EI			55. 767			37. 92	I	3. 4	2
13	Hd.	WI			55. 807			38. 27	I	3. 4	2
14	Wy.	WI			55. 789			-----	0	---	--
15	Fn.	WI			55. 802			38. 19	I	3. 9	2
1915											
Sept. 23	Hd.	EI			55. 768			-----	I	3. 4	2
1916											
Aug. 17	Fn.	EI			55. 732			-----	I	3. 9	2½
24	Wy.	WI			55. 804			-----	I	4. 4	3
Sept. 1	Fn.	WI			55. 755			-----	0	5. 0	2½
4	Wy.	WI			55. 735			-----	I	3. 9	2
11	Hd.	WI			55. 771			-----	I	3. 4	2
Oct. 2	Wy.	WI			55. 838			-----	0	---	2½
9	Hd.	WI			55. 808			-----	I	3. 4	2
27	Hd.	EI			55. 781			-----	I	2. 9	2
31	*Fn.*	*EI*			*55. 767*	-----		-----	*0*	---	*2½*
Nov. 3	*Fn.*	*EI*			*55. 755*	-----		-----	*0*	---	*2*
1917											
Aug. 25	Wy.	EII			55. 791			-----	I	3. 9	2
1918											
Aug. 14	Wy.	WII			55. 798			-----	0	---	3
Mean------		1915. 64	19	52	55. 782	+34	50	37. 83			
		1914. 06									
Corr----------					−0. 081			−0. 26			

ψ Cygni [1]

			h	m	s	°	′	″			
1912											
July 27	Fn.	WII	19	53	18. 174	+52	11	59. 08	0	5. 5	2
Aug. 3	R.	EII			18. 142			59. 40	0	5. 5	1½
5	Fn.	EII			18. 165			58. 84	0	5. 3	2
Sept. 14	R.	WII			18. 217			59. 07	0	---	1
1914											
Aug. 8	Wy.	EI			18. 165			59. 84	I	4. 9	2
20	Fn.	WI			18. 193			59. 07	0	---	2½
22	An.	WI			18. 248			58. 84	0	---	2
30	Wy.	WI			18. 219			59. 14	0	5. 5	3
31	Fn.	WI			18. 215			59. 89	0	5. 0	2
Sept. 8	Wy.	EI			18. 220			58. 75	I	4. 9	2½
9	Fn.	EI			18. 208			59. 11	0	5. 0	2½
Mean------		1913. 91	19	53	18. 197	+52	11	59. 18			
Corr----------					−0. 081			−0. 29			

Piazzi XIX 371

			h	m	s	°	′	″			
1911											
June 30	Hd.	WII	19	54	12. 437	+58	36	19. 58	0	5. 2	--
July 3	Fn.	EII			12. 419			19. 27	0	---	--
5	R.	EII			12. 474			19. 19	0	---	-
10	Fn.	WII			12. 406			19. 60	0	5. 0	2
1915											
July 6	Fn.	WI			12. 447			20. 11	0	5. 5	2½
8	Hd.	WI			12. 418			19. 43	0	5. 0	2
22	Fn.	EI			12. 444			18. 70	0	5. 0	2
23	Hd.	EI			12. 452			18. 80	I	4. 9	2
Mean------		1913. 52	19	54	12. 437	+58	36	19. 34			
Corr----------					−0. 081			−0. 32			

γ Sagittæ

			h	m	s	°	′	″				
			19	54	45. 275	+19	14	49. 92				
1911												
July 28	Hd.	WII			+0. 073			+0. 15	I	3. 4	2	
31	Fn.	WII			+0. 027			−0. 03	I	3. 7	2	
Aug. 15	R.	EII			+0. 021			−0. 09	I	3. 4	2	
16	Fn.	EII			+0. 069			−0. 04	I	3. 4	2½	
1913												
Aug. 7	R.–Fn.	WII			-----			−0. 77	I	---	2	R.
7	R.–Fn.	WII			-----			+0. 44	I	2. 9	2	
11	R.–Fn.	WII			-----			−1. 82	I	---	2½	R.
11	R.–Fn.	WII			-----			+1. 32	I	3. 4	2	
14	R.–Fn.	WII			-----			−1. 10	I	---	2	R.
14	R.–Fn.	WII			-----			+0. 18	I	2. 9	2	
15	Fn.–R.	WII			-----			−0. 58	I	- -	1½	R.
15	Fn.–R.	WII			-----			−0. 10	I	2. 9	1½	
16	Fn.–R.	WII			-----			−0. 62	I	---	1½	R.
16	Fn.–R.	WII			-----			−0. 16	I	2. 9	1½	
20	R.–Fn.	EII			-----			−0. 33	I	---	2	R.
20	R.–Fn.	EII			-----			−0. 33	II	2. 6	2	
25	R.–Fn.	EII			-----			−0. 44	I	---	2	R.
25	R.–Fn.	EII			-----			−1. 06	II	2. 6	2	
26	Fn.–R.	EII			-----			−0. 89	0	---	2½	R.
26	Fn.–R.	EII			-----			+0. 41	I	---	2½	
31	Fn.–R.	EII			-----			−0. 69	0	---	3	R.
31	Fn.–R.	EII			-----			−0. 40	0	3. 5	3	
Sept. 4	Fn.–R.	EII			-----			−0. 86	I	---	3	R.
4	Fn.–R.	EII			-----			−0. 08	I	3. 4	2½	
1915												
July 9	Fn.	WI			+0. 036			+0. 13	0	---	2½	
13	Fn.	WI			+0. 075			−0. 43	I	3. 9	2½	
31	An.	EI			+0. 037			+0. 48	I	---	3	
Aug. 9	Fn.	EI			+0. 047			−0. 23	I	3. 9	2½	
Mean------		1913. 58			+0. 048			+0. 01				
		1913. 61										
Corr----------					−0. 081			−0. 23				

[1] Double; n. component observed.

Weisse$_1$ XIX 1305

				h	m	s	°	′	″			
1913												
June	6	Fn.	WII	19	54	48.212	+1	7	51.60	0	7.0	3
	10	R.	WII			48.197			51.23	0	6.0	2½
	12	Hd.	EII			48.200			51.54	0	6.5	2
	13	Fn.	EII			48.173			51.72	0	6.5	3
1914												
Aug.	3	Fn.	EI			48.241			51.84	0	6.5	2½
	4	Wy.	EI			48.198			51.76	0	7.0	2½
	17	Fn.	WI			48.177			52.17	0	6.5	2½
	18	Wy.	WI			48.176			51.77	0	6.5	2½
Mean		1914.03		19	54	48.197	+1	7	51.70			
Corr						−0.081			−0.18			

Weisse$_1$ XIX 1312

				h	m	s	°	′	″			
1911												
July	6	Fn.	EII	19	54	56.156	+11	3	37.65	0	6.5	2½
	12	R.	WII			56.128			38.75	0	6.5	--
	14	Hd.	WII			56.122			38.38	0	6.7	--
	18	Hd.	EII			56.084			37.16	0	6.0	2½
1915												
July	17	An.	WI			56.120			38.04	0	7.0	2½
Aug.	10	An.	EI			56.177			38.72	0	7.0	2
	12	Fn.	EI			56.143			37.48	0	6.5	2
	18	Wy.	WI			56.118			37.33	0	6.5	3
Mean		1913.56		19	54	56.131	+11	3	37.94			
Corr						−0.081			−0.21			

Bradley 2553

				h	m	s	°	′	″			
1912												
Aug.	7	Fn.	EII	19	55	18.841	+22	51	20.54	0	5.7	2
	10	R.	EII			18.801			20.88	0	6.0	1½
	15	R.	WII			18.857			20.42	0	6.5	4
	31	R.	WII			18.856			20.49	0	---	2½
1914												
June	29	Fn.	WI			18.835			20.29	0	5.5	2½
	30	Hd.	WI			18.795			21.12	0	6.0	3
July	18	Hd.	EI			18.823			20.24	0	5.5	2
	19	Hd.	EI			18.819			20.64	0	6.0	2
Mean		1913.57		19	55	18.828	+22	51	20.58			
Corr						−0.081			−0.24			

c Sagittarii

				h	m	s	°	′	″			
				19	57	7.563	−27	57	38.43			
1911												
Aug.	1	Hd.	WII			+0.049			−0.36	0	5.5	3
	6	R.	WII			+0.045			+0.01	0	4.5	2½
	9	Fn.	EII			+0.069			+0.40	0	5.0	--
	10	R.	EII			+0.076			−0.31	I	4.4	1½
1915												
June	19	Wy.	WI			+0.081			−0.16	0	---	3½
	22	Wy.	EI			+0.028			+0.81	0	5.7	3½
	28	Wy.	EI			+0.060			+0.06	I	4.4	3
July	2	Hd.	WI			+0.069			+0.28	0	---	3½
Mean		1913.54				+0.060			+0.09			
Corr						−0.081			0.00			

B. D.+38° 3862

				h	m	s	°	′	″			
1916												
Aug.	17	Fn.	EI	19	57	-----	+38	57	31.52	0	7.5	2½
	18	Wy.	EI			-----			31.95	0	7.5	2
	24	Wy.	WI			-----			31.62	0	7.5	3
	25	Fn.	WI			-----			32.05	0	7.5	2½
Mean		1916.64		19	57	-----	+38	57	31.78			
Corr						-----			−0.27			

15 Vulpeculæ

				h	m	s	°	′	″			
1912												
Sept.	21	R.	WII	19	57	23.688	+27	30	15.91	I	---	1½
	27	Hd.	EII			23.615			15.60	I	4.4	3
Oct.	2	R.	EII			23.660			16.18	0	5.0	1
	8	Hd.	WII			23.680			15.24	0	---	2
1914												
July	8	Fn.	WI			23.708			14.94	0	5.0	1½
	9	Hd.	WI			23.674			15.44	I	4.4	2
	20	Fn.	EI			23.641			14.91	0	5.0	1½
	22	Fn.	EI			23.677			15.72	0	5.0	2
Mean		1913.64		19	57	23.668	+27	30	15.49			
Corr						−0.081			−0.25			

Lacaille 8322

				h	m	s	°	′	″			
1911												
July	15	R.	WII	19	58	37.283	−32	18	34.33	0	5.0	3
	24	Fn.	EII			37.360			33.59	0	5.6	4½
	25	Hd.	EII			37.378			33.91	0	5.5	5
	27	Fn.	WII			37.370			33.69	0	---	--
1915												
July	6	Fn.	WI			37.341			34.10	0	5.5	3
	8	Hd.	WI			37.395			33.96	0	6.0	3½
	20	Hd.	EI			37.399			34.47	0	6.0	3½
Aug.	9	Fn.	EI			37.408			34.26	0	6.5	3½
Mean		1913.55		19	58	37.367	−32	18	34.04			
Corr						−0.081			+0.08			

Piazzi XIX 377

				h	m	s	°	′	″			
1912												
Oct.	2	R.	EII	19	59	40.509	−21	34	5.46	0	7.0	2
	3	Hd.	EII			40.450			5.68	0	7.8	3½
	9	Hd.	WII			40.432			6.32	0	7.5	2
	10	Hd.	WII			40.486			5.94	0	7.8	3
1914												
Aug.	7	Hd.	EI			40.476			5.80	0	---	3
	8	Wy.	EI			40.468			6.12	0	8.0	3½
	17	Fn.	WI			40.427			5.70	0	7.5	3½
	18	Wy.	WI			40.489			6.17	0	7.5	3½
Mean		1913.69		19	59	40.467	−21	34	5.90			
Corr						−0.081			−0.06			

Lacaille 8334

				h	m	s	°	′	″			
1911												
Aug.	21	Fn.	EII	19	59	42.695	−27	4	5.51	0	7.6	4
	22	R.	EII			42.700			6.41	0	7.0	2
Sept.	2	R.	WII			42.697			5.40	0	7.5	1½
	6	R.	WII			42.638			5.33	0	7.5	1
1915												
July	9	Fn.	WI			42.681			6.92	0	8.0	3
	23	Hd.	EI			42.695			5.24	0	8.0	3
Aug.	10	An.	EI			42.724			5.73	0	8.5	3
	21	Wy.	WI			42.721			6.16	0	8.0	4
	23	Wy.	WI			42.708			6.38	0	8.0	3
Mean		1913.84		19	59	42.695	−27	4	5.90			
Corr						−0.081			−0.01			

τ Aquilæ

				h	m	s	°	′	″			
				19	59	44.624	+7	1	25.15			
1912												
July	26	R.	WII			−0.007			−1.99	0	5.5	2
	27	Fn.	WII			−0.018			−0.98	0	5.6	2
Aug.	3	R.	EII			−0.029			−0.36	0	6.0	2
	5	Fn.	EII			−0.021			−1.06	0	5.9	2
1914												
July	16	Fn.	WI			−0.023			−0.95	0	6.0	2
	18	Hd.	EI			+0.013			−0.64	0	6.0	2
	19	Hd.	EI			−0.009			−0.19	0	6.0	2
Aug.	15	Fn.	WI			+0.002			−0.61	0	5.8	2½
Mean		1913.57				−0.012			−0.85			
Corr						−0.081			−0.20			

Pulkowa 1855, 2884

				h	m	s	°	′	″			
1911												
June	29	Fn.	WII	19	59	55.491	+29	39	21.35	0	6.0	--
	30	Hd.	WII			55.482			21.30	0	5.8	--
July	3	Fn.	EII			55.487			21.16	0	5.8	--
	5	R.	EII			55.541			21.38	0	5.5	--
1915												
Aug.	12	Fn.	EI			55.716			18.65	0	6.0	2
	13	An.	EI			55.674			19.59	0	7.0	3
	14	Wy.	EI			55.698			18.71	0	6.5	2½
	17	An.	WI			55.696			19.10	0	6.5	3
	19	Fn.	WI			55.685			18.41	0	7.0	1½
Mean		1913.79		19	59	55.608	+29	39	19.96			
Corr						−0.081			−0.25			

η Sagittæ

				h	m	s	°	′	″			
1912												
Aug.	1	R.	WII	20	1	10.004	+19	43	57.85	0	---	2
	7	Fn.	EII			9.999			57.38	0	5.5	2
	10	R.	EII			9.998			57.09	0	5.5	1
	15	R.	WII			10.024			56.98	0	6.0	3
1914												
June	29	Fn.	WI			9.973			57.64	0	5.5	3
	30	Hd.	WI			10.018			57.38	I	4.9	2
July	27	Fn.	EI			10.017			56.82	0	---	2½
	28	Hd.	EI			10.057			56.73	I	4.9	2
Mean		1913.57		20	1	10.011	+19	43	57.23			
Corr						−0.081			−0.23			

Weisse$_1$ XIX 1472

				h	m	s	°	′	″			
1911												
July	1	R.	WII	20	1	27.687	−4	20	6.78	0	6.5	--
	6	Fn.	EII			27.755			6.39	0	6.2	2½
	10	Fn.	WII			27.710			6.81	0	6.8	2
	18	Hd.	EII			27.673			5.79	0	6.2	2½
1915												
July	17	An.	WI			27.711			6.34	0	7.0	2½
	22	Fn.	EI			27.703			6.05	0	7.0	3
	31	An.	EI			27.755			6.67	0	---	3½
Aug.	18	Wy.	WI			27.735			6.27	0	7.0	3
Mean		1913.55		20	1	27.716	−4	20	6.39			
Corr						−0.081			−0.16			

Oeltzen 19983

				h	m	s	°	′	″			
1911												
July	12	R.	WII	20	1	47.328	+47	58	24.17	0	---	--
	14	Hd.	WII			47.281			23.38	0	6.0	--
	19	R.	EII			47.199			23.22	0	5.5	1
	20	Fn.	EII			47.257			23.40	0	---	--
1915												
June	17	Fn.	WI			47.244			24.41	0	6.0	2½
	19	Wy.	WI			47.266			24.15	0	---	2
	22	Wy.	EI			47.288			24.20	0	6.5	2½
	24	Fn.	EI			47.234			23.55	0	6.5	2
Mean		1913.50		20	1	47.262	+47	58	23.81			
Corr						−0.081			−0.29			

Bradley 2573

				h	m	s	°	′	″			
1912												
Sept.	21	R.	WII	20	3	1.121	+35	43	-----	0	6.0	1½
	27	Hd.	EII			1.072			25.68	0	5.5	3
Oct.	1	Hd.	EII			1.113			25.63	0	5.8	2
	8	Hd.	WII			1.147			25.33	0	---	3
1914												
July	8	Fn.	WI			1.095			24.24	0	5.5	1½
	9	Hd.	WI			1.141			24.72	I	4.9	2
	18	Hd.	EI			1.079			24.86	0	6.0	2
	20	Fn.	EI			1.083			24.23	0	5.5	1½
Mean		1913.64		20	3	1.106	+35	43	24.96			
		1913.77										
Corr						−0.081			−0.26			

Weisse$_1$ XIX 1531 [1]

				h	m	s	°	′	″			
1911												
July	22	R.	EII	20	3	30.249	+9	8	16.83	0	5.5	4
	24	Fn.	EII			30.270			15.51	0	7.0	3½
	27	Fn.	WII			30.184			16.07	0	6.7	2
	28	Hd.	WII			30.213			16.83	0	6.5	2
1915												
June	28	Wy.	EI			30.196			16.85	0	6.0	2½
July	2	Hd.	WI			30.212			16.69	0	6.5	2
	6	Fn.	WI			30.224			16.41	0	6.5	2½
	23	Hd.	EI			30.211			16.84	0	7.0	3
Mean		1913.54		20	3	30.220	+9	8	16.50			
Corr						−0.081			−0.21			

Bradley 2586

				h	m	s	°	′	″			
1911												
Aug.	1	Hd.	WII	20	4	7.03	+61	44	2.73	0	5.8	3
	6	R.	WII			7.11			2.85	0	5.0	1
	15	R.	EII			7.06			3.30	I	4.4	1
	18	Fn.	EII			7.08			3.46	0	5.2	--
1915												
July	8	Hd.	WI			7.13			3.44	0	6.0	2½
	13	Fn.	WI			7.15			2.92	0	5.5	2½
	27	Hd.	EI			7.12			3.67	0	---	2
Aug.	9	Fn.	EI			7.11			3.29	0	5.5	2
Mean		1913.58		20	4	7.099	+61	44	3.21			
Corr						−0.081			−0.32			

b^2 Cygni

				h	m	s	°	′	″			
1916												
Aug.	17	Fn.	EI	20	6	5.021	+36	34	-----	0	5.5	2
	21	Wy.	EI			5.040			-----	0	5.5	3
Sept.	4	Wy.	WI			5.069			-----	I	4.9	2
Oct.	5	Hd.	WI			5.119			-----	0	---	2
	17	Fn.	WI			4.987			-----	0	5.5	2½
	31	Fn.	EI			5.037			-----	0	---	2½
Nov.	3	Fn.	EI			5.043			-----	0	---	2
1917												
Sept.	18	Wy.	EII			5.097			-----	0	---	2
1918												
Aug.	8	Wy.	WII			5.070			-----	0	6.5	3
Mean		1917.06		20	6	5.054	+36	34	-----			
Corr						−0.081			-----			

θ Aquilæ

				h	m	s	°	′	″				
				20	6	39.707	−1	5	20.25				
1911						s			″				
Aug.	7	Fn.	WII			+0.054			−0.31	I	3.6	2	
Sept.	1	Fn.	WII			+0.062			−0.50	I	3.6	--	
	6	R.	WII			+0.059			−0.28	I	2.9	1	
	7	Fn.	WII			+0.039			−0.24	I	4.1	4½	
	11	Fn.	WII			+0.081			−0.92	I	3.2	1½	
	12	Hd.	WII			+0.082			−0.21	I	2.9	3	
	13	R.	WII			+0.058			−0.55	II	2.1	1½	
	18	Fn.	WII			+0.046			−1.79	I	2.2	1½	
	20	R.	WII			+0.068			−1.00	II	2.6	2½	
	22	Hd.	WII			+0.084			−0.05	I	3.4	3	
	25	Fn.	EII			+0.040			+0.46	I	3.0	2½	
	26	Hd.	EII			+0.030			+0.09	I	2.9	3	
	28	Fn.	EII			+0.072			+0.32	I	3.4	2	
	29	Hd.	EII			+0.096			+0.07	I	3.4	3½	
	30	R.	EII			+0.015			+0.13	II	2.6	2½	
Oct.	12	Fn.	WII			+0.073			+0.02	I	3.0	3	
	18	Hd.	WII			+0.080			−0.05	I	3.1	2	
	25	R.	WII			+0.077			−0.36	I	2.4	1	
1912													
Mar.	*29*	*R.*	*WII*			*+0.030*	*−0.06*		*−0.06*	*0*	---	--	
Apr.	*2*	*R.*	*WII*			*+0.041*	*−0.15*		*−0.12*	*0*	---	--	
	5	*R.*	*EII*			*+0.041*	*−0.10*		*−0.07*	*0*	---	--	

[1] Double; s. fol. component observed.

				s	″	″					
1912											
Apr.	*8*	*Hd.*	*WII*	*+0.086*	*−0.60*	*−0.65*	*0*	...	*3*		
	10	*Fn.*	*WII*	.....	*+0.12*	*−0.02*	*0*	...	..		
	11	*Hd.*	*EII*	.....	*−0.15*	*−0.26*	*0*	...	*3*		
	18	*Hd.*	*EII*	*+0.109*	*+0.14*	*+0.11*	*0*	...	*3*		
May	*1*	*Fn.*	*EII*	*+0.059*	*−0.39*	*−0.36*	*0*	...	*2*		
Aug.	1	R.	WII	+0.050		+0.61	I	...	3½		
	12	Fn.	EII	+0.046		−0.51	0	...	3		
	15	R.	WII	+0.060		−0.84	I	...	3		
	23	Fn.	WII	+0.088		−0.79	I	...	2		
Sept.	4	Hd.	EII	+0.087		----	I	2.9	2		
	9	Hd.	EII	+0.046		−0.44	I	2.9	2		
	12	R.	WII	+0.060		−0.11	II	2.6	1		
	14	R.	WII	+0.044		−0.37	I	3.4	2		
	21	R.	WII	+0.039		+0.21	I	3.9	2		
Oct.	3	Hd.	EII	+0.066		----	I	2.7	2		
	4	Hd.	EII	+0.068		+0.14	I	2.9	2		
	5	Hd.	EII	+0.079		−0.42	I	3.4	2		
	9	Hd.	WII	+0.071		----	I	...	1		
	10	Hd.	WII	+0.037		----	I	3.4	3		
	11	Hd.	WII	+0.058		----	I	...	1½		
	12	Hd.	WII	-----		−0.11	I	2.9	3		
	15	Hd.	WII	+0.068		+0.17	I	2.9	3		
1913											
Mar.	*17*	*Hd.*	*WII*	*+0.082*	*+0.05*	*+0.12*	*0*	...	*3*		
Aug.	7	R.–Fn.	WII	-----		−1.33	I	...	2		R.
	7	R.–Fn.	WII	-----		+0.13	I	2.9	2		
	11	R.–Fn.	WII	-----		−1.48	I	...	2		R.
	11	R.–Fn.	WII	-----		+1.00	I	...	2½		
	14	R.–Fn.	WII	-----		−1.34	I	...	2		R.
	14	R.–Fn.	WII	-----		−0.12	I	2.9	2		
	15	Fn.–R.	WII	-----		−1.00	I	...	2		R.
	15	Fn.–R.	WII	-----		−0.60	I	2.9	2		
	16	Fn.–R.	WII	-----		−1.01	I	...	2		R.
	16	Fn.–R.	WII	-----		−0.78	I	3.4	2		
	20	R.–Fn.	EII	-----		−1.05	I	...	2		R.
	20	R.–Fn.	EII	-----		−0.92	II	2.6	2		
	25	R.–Fn.	EII	-----		−0.62	I	...	2		R.
	25	R.–Fn.	EII	-----		−1.20	II	3.1	2½		
	26	Fn.–R.	EII	-----		−1.10	I	...	3		R.
	26	Fn.–R.	EII	-----		−0.46	I	3.4	3		
	30	Fn.–R.	EII	-----		−1.66	0	...	2½		R.
	30	Fn.–R.	EII	-----		+0.64	I	3.9	2½		
	31	Fn.–R.	EII	-----		−0.91	I	...	3		R.
	31	Fn.–R.	EII	-----		−0.06	I	3.4	2½		
Sept.	4	Fn.–R.	EII	-----		−1.31	I	...	2		R.
	4	Fn.–R.	EII	-----		−0.20	I	3.4	2		
1914											
Mar.	*20*	*Hd.*	*EI*	*+0.011*	*−0.27*	*−0.22*	*0*	...	*3*		
	22	*Fn.*	*EI*	*+0.048*	*−0.52*	*−0.41*	*0*	...	*3½*		
	23	*Wy.*	*EI*	*+0.054*	*−0.59*	*−0.61*	*0*	...	*3*		
	24	*Hd.*	*EI*	*+0.095*	*+0.47*	*+0.47*	*0*	...	*3*		
	30	*Wy.*	*WI*	-----	*−0.20*	*−0.15*	*0*	...	*3*		
Apr.	*2*	*Wy.*	*WI*	*+0.077*	----	----	*0*	...	*3*		
Aug.	4	Wy.	EI	+0.037		+0.44	I	...	3		
	8	Wy.	EI	+0.061		−1.58	I	3.4	3		
	18	Wy.	WI	+0.062		+0.07	II	3.6	3		
	31	Fn.	WI	+0.043		----	I	3.4	2		
Sept.	4	Fn.	WI	+0.018		----	I	3.9	2½		
	5	Wy.	WI	+0.049		----	I	3.4	2		
	9	Fn.	EI	+0.030		+0.15	I	3.4	2½		
	14	Fn.	EI	+0.051		+0.59	I	3.4	2½		
	15	An.	EI	+0.064		−0.20	II	3.6	2		
	18	An.	EI	+0.054		----	I	...	3		
	19	Wy.	EI	+0.057		+0.19	I	3.4	2½		
	20	An.	EI	+0.035		----	I	2.9	1½		
	22	Wy.	EI	+0.034		+0.08	I	3.4	2½		
	23	An.	EI	+0.054		−1.01	II	3.6	2½		
	28	Hd.	WI	+0.084		−0.13	I	2.9	3		
	29	Wy.	WI	+0.066		+0.44	I	3.4	2½		
	30	An.	WI	+0.060		−0.02	I	2.9	3		
Oct.	12	An.	WI	-----		−0.47	II	3.6	3		
	17	Wy.	EI	+0.062		----	I	2.9	2½		
Nov.	5	Wy.	WI	+0.084		----	I	...	3½		
1915											
Mar.	*29*	*Wy.*	*EI*	*+0.075*	*−0.40*	*−0.32*	*0*	...	*4*		
	30	*An.*	*EI*	*+0.121*	*+0.02*	*+0.04*	*0*	...	*3*		
	31	*Fn.*	*EI*	*+0.066*	*+0.74*	*+0.75*	*0*	...	*3*		
1915											
July	20	Hd.	EI	+0.045		----	I	3.9	2		
	31	An.	EI	+0.052		----	I	...	3½		
Aug.	5	Fn.	EI	+0.070		----	I	...	3		
	10	An.	EI	+0.046		+0.16	I	...	2		
	12	Fn.	EI	+0.075		−0.23	I	3.9	2½		
	13	An.	EI	+0.075		+0.19	I	4.4	3		
	14	Wy.	EI	+0.079		−0.26	I	3.9	3		
	15	Wy.	EI	+0.059		−0.61	I	4.4	2½		
	16	Fn.	EI	+0.054		−0.31	0	...	2½		
	17	An.	WI	+0.067		−0.29	I	4.4	3		
	19	Fn.	WI	+0.050		+0.33	0	...	1½		
	21	Wy.	WI	+0.062		−0.35	I	3.4	3		
	23	Wy.	WI	+0.034		−0.26	I	2.9	2½		
	25	Wy.	WI	+0.049		+0.43	I	...	3		
	26	Hd.	WI	+0.073		+0.03	I	...	2		
	31	Wy.	WI	+0.050		----	0	...	3½		
Sept.	1	Hd.	WI	+0.055		+0.33	I	...	2½		
	3	Hd.	WI	+0.058		−0.42	I	...	2		
	13	Hd.	EI	+0.080		+0.04	I	3.4	2		
	14	Wy.	EI	+0.064		−0.10	I	3.4	2½		
	15	Hd.	EI	+0.075		−0.01	I	2.9	2		
	22	Hd.	EI	+0.054		−0.09	I	2.9	3		
	23	Hd.	EI	+0.048		----	I	2.9	2		
	27	Hd.	EI	+0.053		+0.02	I	3.4	3		
	28	Fn.	EI	+0.056		+0.49	I	3.4	2½		
1916											
Mar.	*3*	*Wy.*	*WI*	*+0.038*	*−0.27*	*−0.15*	...	...	3½		
Mean		1913.91		+0.058		−0.17					
		1913.75									
Corr				−0.081		−0.18					

Bradley 2577

				h	m	s	°	′	″			
1912												
Aug.	7	Fn.	EII	20	7	25.108	−12	52	54.47	0	...	2
	10	R.	EII			25.147			55.05	0	6.5	1
	24	R.	WII			25.163			55.12	0	7.0	2
	27	R.	WII			25.138			54.79	0	6.0	3½
1914												
July	9	Hd.	WI			25.162			55.32	0	6.0	2
	18	Hd.	EI			25.215			56.47	0	6.0	..
	19	Hd.	EI			25.185			55.42	0	6.0	3
Aug.	15	Fn.	WI			25.195			54.42	0	6.0	3
Mean		1913.59		20	7	25.164	−12	52	55.13			
Corr						−0.081			−0.12			

Groombridge 3087 [1]

				h	m	s	°	′	″			
1911												
July	12	R.	WII	20	10	1.546	+51	11	33.11	0	5.5	..
	14	Hd.	WII			1.509			32.64	0	6.0	..
	19	R.	EII			1.488			31.93	0	6.0	1
	20	Fn.	EII			1.521			32.51	0	...	..
1915												
June	28	Wy.	EI			1.550			32.73	0	6.0	2
July	8	Hd.	WI			1.492			32.54	0	6.5	2
	9	Fn.	WI			1.486			31.78	0	6.0	2½
	20	Hd.	EI			1.504			32.91	0	6.2	2½
Mean		1913.53		20	10	1.512	+51	11	32.52			
Corr						−0.081			−0.29			

Groombridge 3112

				h	m	s	°	′	″			
1911												
July	1	R.	WII	20	10	32.76	+68	0	7.18	0	7.0	..
	6	Fn.	EII			32.76			7.15	0	6.7	2
	10	Fn.	WII			32.68			5.81	0	6.8	2
	18	Hd.	EII			32.59			6.34	0	...	2½
1915												
July	13	Fn.	WI			32.67			5.95	0	7.0	2½
	14	An.	WI			32.67			5.93	0	7.0	2½
	22	Fn.	EI			32.78			6.08	0	7.0	2
Aug.	9	Fn.	EI			32.72			6.12	0	7.0	2½
Mean		1913.54		20	10	32.704	+68	0	6.32			
Corr						−0.081			−0.34			

[1] Star has companion; 11th mag. distance 4″.

B. D.+38° 3963

			h	m	s	°	′	″			
1916											
Aug. 21	Wy.	EI	20	10	-----	+38	53	6.32	0	7.5	3
24	Wy.	WI			-----			6.22	0	7.0	2½
25	Fn.	WI			-----			6.48	0	7.5	2
Sept. 19	Hd.	EI			-----			6.57	0	7.5	2
Mean	1916.66		20	10	-----	+38	53	6.40			
Corr					-----			−0.27			

o Cygni *seq.*

			h	m	s	°	′	″			
			20	10	47.908	+46	28	4.83			
1911											
July 15	R.	WII			−0.056			−0.80	I	3.9	1
24	Fn.	EII			+0.020			−0.47	I	3.9	3½
27	Fn.	WII			−0.122			+0.08	I	3.7	2
1913											
June 10	R.	WII			−0.011			+0.18	I	2.9	2
12	Hd.	EII			+0.009			−0.11	I	3.4	2
13	Fn.	EII			−0.017			−0.38	I	3.9	3
July 8	Fn.	WII			+0.027			+0.12	I	3.7	2
1914											
July 31	Fn.	EI			−0.058			−0.43	0	---	2
Aug. 3	Fn.	EI			−0.064			+0.15	I	3.9	2
15	Fn.	WI			−0.059			+0.05	I	3.9	2
17	Fn.	WI			−0.031			−0.21	I	3.4	2
Oct. 17	Wy.	EI			−0.041			----	I	3.4	3
20	Hd.	EI			+0.028			----	I	3.4	2
1915											
Aug. 18	Wy.	WI			−0.017			----	I	3.9	2
26	Hd.	WI			−0.023			----	I	3.9	2
Sept. 3	Hd.	WI			−0.033			----	I	3.4	2
13	Hd.	EI			−0.002			----	I	3.4	2
16	Wy.	EI			−0.008			----	I	3.4	2
23	Hd.	EI			−0.058			----	I	2.9	2
27	Hd.	EI			−0.044			----	I	3.4	2
Oct. 21	Hd.	WI			−0.052			----	I	3.4	3
1916											
Sept. 4	Wy.	WI			+0.001			----	I	3.4	2
Oct. 17	Fn.	WI			−0.062			----	0	4.5	2½
27	Hd.	EI			−0.045			----	I	3.4	2
31	Fn.	EI			−0.110			----	0	---	3
Nov. 3	Fn.	EI			−0.089			----	0	---	2
Mean	1914.85				−0.035			−0.17			
	1913.36										
Corr					−0.081			−0.28			

33 Cygni

			h	m	s	°	′	″			
1912											
Oct. 2	R.	EII	20	11	18.385	+56	17	31.52	I	3.9	1½
3	Hd.	EII			18.384			31.70	I	4.4	3
8	Hd.	WII			18.399			31.64	0	---	3
11	Hd.	WII			18.400			31.73	I	---	2
1914											
Aug. 6	Fn.	EI			18.446			31.83	0	5.5	2
7	Hd.	EI			18.450			32.15	I	4.4	2
Sept. 4	Fn.	WI			18.434			32.33	I	---	2
5	Wy.	WI			18.420			32.42	I	4.4	2
Mean	1913.70		20	11	18.415	+56	17	31.92			
Corr					−0.081			−0.30			

Weisse$_1$ XX 199

			h	m	s	°	′	″			
1912											
Sept. 17	R.	WII	20	11	37.408	+4	18	19.77	0	6.5	1½
20	Hd.	WII			37.456			20.31	0	6.5	2
27	Hd.	EII			37.397			19.89	0	6.5	3
28	R.	EII			37.462			20.52	0	5.5	1
1914											
Aug. 8	Wy.	EI			37.439			21.08	0	6.5	3
18	Wy.	WI			37.409			20.33	0	6.5	2½
20	Fn.	WI			37.366			20.20	0	7.0	2½
Sept. 9	Fn.	EI			37.410			-----	0	7.0	2½
14	Fn.	EI			37.422			20.74	0	6.5	2½
Mean	1913.80		20	11	37.419	+4	18	20.36			
	1913.68										
Corr					−0.081			−0.19			

κ Cephei [1]

			h	m	s	°	′	″			
			20	11	56.279	+77	26	26.76			
1911											
July 25	Hd.	EII			−0.03			−0.82	0	---	--
Aug. 1	Hd.	WII			−0.03			+0.44	0	5.5	3
6	R.	WII			−0.19			+0.31	I	4.4	1
15	R.	EII			0.00			+1.03	I	4.4	3
1915											
July 17	An.	WI			+0.04			+0.30	I	5.4	3
23	Hd.	EI			−0.13			+0.40	I	4.9	2½
Aug. 10	An.	EI			−0.05			+0.71	I	5.4	2
17	An.	WI			+0.14			−0.04	I	---	3
Mean	1913.59				−0.031			+0.29			
Corr					−0.081			−0.36			

κ Cephei s. p.

			h	m	s	°	′	″			
			20	11	56.280	+77	26	26.77			
1912											
Feb. 2	Hd.	WII			+0.13			−0.77	I	4.4	3½
8	Fn.	EII			−0.16			−0.84	0	4.9	4
9	Hd.	EII			−0.11			−0.54	0	5.5	5
Mar. 2	R.	WII			+0.06			−0.32	0	---	3½
1915											
Nov. 5	Fn.	EI			+0.09			−1.09	0	4.5	3½
7	Hd.	EI			0.00			−0.61	0	---	3
9	Wy.	WI			−0.01			0.00	I	4.4	3
15	Wy.	WI			−0.14			+0.07	0	5.0	3½
Mean	1913.99				−0.018			−0.51			
Corr					−0.081			+0.51			

Groombridge 3212

			h	m	s	°	′	″			
1912											
Aug. 12	Fn.	EII	20	12	36.53	+84	24	28.40	0	7.2	3½
24	R.	WII			36.27			28.46	0	7.5	2
27	R.	WII			36.64			28.43	0	7.0	2
Sept. 6	Hd.	EII			36.24			28.71	0	7.0	2
1914											
July 16	Fn.	WI			36.10			-----	0	---	3½
22	Fn.	EI			36.79			27.66	0	7.5	3
28	Hd.	EI			36.54			27.71	0	7.0	2
Sept. 1	An.	WI			36.36			28.05	0	7.0	3
4	Fn.	WI			36.67			27.54	0	7.0	2½
5	Wy.	WI			36.35			27.54	0	7.0	2
Mean	1913.83		20	12	36.449	+84	24	28.06			
	1913.75										
Corr					−0.081			−0.39			

Groombridge 3212 s. p.

			h	m	s	°	′	″			
1912											
Dec. 30	Fn.	WII	20	12	36 14	+84	24	25.50	0	6.7	3½
1913											
Jan. 14	R.	WII			36.22			27.67	0	7.5	2½
19	R.	EII			36.34			27.22	0	7.5	2½
21	R.	EII			36.77			27.11	0	7.0	2
Nov. 22	R.	WI			36.79			27.11	0	.	2½
24	Hd.	WI			36.09			27.34	0	7.5	3
Dec. 13	R.	EI			36.21			26.66	0	7.0	4
1914											
Jan. 5	Hd.	EI			36.55			27.03	0	7.5	3
Mean	1913.49		20	12	36.389	+84	24	26.96			
Corr					−0.081			+0.45			

[1] Double; n. pr. component observed.

24 Vulpeculæ

			h m s	° ′ ″			
			20 12 56.043	+24 23 36.07			
1911							
Aug. 7	Fn.	WII	−0.050	+0.17	0	5.5	1½
16	Fn.	EII	−0.021	−0.25	0	---	--
18	Fn.	EII	−0.036	−0.19	0	---	--
Sept. 1	Fn.	WII	−0.037	−0.24	0	---	--
1915							
Aug. 12	Fn.	EI	+0.025	−0.05	0	5.5	2
13	An.	EI	−0.008	−0.28	0	---	3
18	Wy.	WI	−0.014	+0.14	0	5.7	2½
19	Fn.	WI	−0.005	+0.13	0	6.0	1½
Mean	1913.63		−0.018	−0.07			
Corr			−0.081	−0.24			

α^2 Capricorni

			h m s	° ′ ″			
			20 13 3.746	−12 49 27.64			
1912							
Sept. 9	Hd.	EII	+0.060	−0.18	I	3.4	2
10	R.	EII	+0.091	−0.55	I	2.9	3
12	R.	WII	+0.070	−0.66	II	3.1	2
14	R.	WII	+0.049	−0.62	I	3.9	2½
1914							
June 30	Hd.	WI	+0.051	−0.69	I	3.4	3½
July 9	Hd.	WI	+0.026	−0.12	I	4.4	2
18	Hd.	EI	+0.098	−1.06	I	4.4	3
19	Hd.	EI	+0.061	+0.67	I	3.4	3
Mean	1913.61		+0.063	−0.40			
Corr			−0.081	−0.12			

σ Capricorni

			h m s	° ′ ″			
1911							
Aug. 21	Fn.	EII	20 14 12.126	−19 23 60.67	0	5.6	3½
22	R.	EII	12.212	60.18	0	5.5	1½
Sept. 2	R.	WII	12.176	60.22	0	6.0	2½
6	R.	WII	12.165	60.03	0	5.5	1
1915							
June 22	Wy.	EI	12.185	60.17	0	6.5	3½
28	Wy.	EI	12.188	59.95	0	6.0	3
July 2	Hd.	WI	12.159	60.57	0	6.0	3½
6	Fn.	WI	12.147	60.14	0	5.5	3½
Mean	1913.58		20 14 12.170	−19 24 0.24			
Corr			−0.081	−0.09			

Bradley 2616

			h m s	° ′ ″			
1912							
July 25	Fn.	WII	20 15 11.649	+34 42 3.68	0	---	2½
26	R.	WII	11.680	3.66	0	5.0	2
27	Fn.	WII	11.617	3.39	0	6.0	2
Aug. 3	R.	EII	11.634	3.89	0	6.0	1
5	Fn.	EII	11.613	3.54	0	---	1½
1914							
Sept. 8	Wy.	EI	11.710	4.43	I	5.4	2
14	Fn.	EI	11.652	4.45	0	6.0	2
15	An.	EI	11.661	3.98	I	5.9	1½
16	Wy.	EI	11.637	2.97	0	---	2½
28	Hd.	WI	11.694	3.72	0	6.0	2½
29	Wy.	WI	11.651	4.59	0	6.5	2½
Mean	1913.74		20 15 11.654	+34 42 3.85			
Corr			−0.081	−0.26			

Lalande 39042

			h m s	° ′ ″			
1911							
June 29	Fn.	WII	20 15 38.691	−6 38 35.75	0	---	2
30	Hd.	WII	38.705	36.81	0	7.0	--
July 3	Fn.	EII	38.650	36.76	0	---	2
5	R.	EII	38.720	37.01	0	6.5	
1915							
July 8	Hd.	WI	38.682	36.96	0	6.5	3
9	Fn.	WI	38.642	38.06	0	7.0	3
Aug. 9	Fn.	EI	38.712	37.63	0	7.0	3
10	An.	EI	38.709	36.51	0	---	2
Mean	1913.53		20 15 38.689	−6 38 36.94			
Corr			−0.081	−0.15			

β Capricorni

			h m s	° ′ ″			
			20 15 57.396	−15 3 58.06			
1912							
Aug. 1	R.	WII	+0.005	+0.24	I	---	4
7	Fn.	EII	+0.001	−0.01	I	3.2	2½
10	R.	EII	+0.038	+0.58	I	---	--
15	R.	WII	+0.012	−0.65	I	2.9	5
1913							
Aug. 7	R.–Fn.	WII	-----	−1.69	I	---	2½ R.
7	R.–Fn.	WII	-----	−0.31	I	2.9	2
11	R.–Fn.	WII	-----	−2.15	0	---	3 R.
11	R.–Fn.	WII	-----	−0.07	I	---	2
14	R.–Fn.	WII	-----	−1.41	I	---	2½ R.
14	R.–Fn.	WII	-----	−0.37	I	2.9	2½
15	Fn.–R.	WII	-----	−1.24	I	---	2½ R.
15	Fn.–R.	WII	-----	−0.72	I	3.4	2½
16	Fn.–R.	WII	-----	−2.13	I	---	3 R.
16	Fn.–R.	WII	-----	−0.89	I	3.4	2½
20	R.–Fn.	EII	-----	−1.06	I	---	2 R.
20	R.–Fn.	EII	-----	−1.07	II	2.6	2½
21	R.–Fn.	EII	-----	−0.29	I	---	3 R.
25	R.–Fn.	EII	-----	−0.67	I	---	2 R.
25	R.–Fn.	EII	-----	−1.26	II	2.6	2½
26	Fn.–R.	EII	-----	−1.37	0	---	3 R.
26	Fn.–R.	EII	-----	−0.82	I	---	3
30	Fn.–R.	EII	-----	−1.75	0	---	-- R.
30	Fn.–R.	EII	-----	−0.38	0	---	--
31	Fn.–R.	EII	-----	−0.80	I	---	3 R.
31	Fn.–R.	EII	-----	−0.68	I	3.4	3
Sept. 2	Fn.–R.	EII	-----	−0.21	I	3.4	3
4	Fn.–R.	EII	-----	−1.61	I	---	2½ R.
4	Fn.–R.	EII	-----	−0.66	I	3.4	2
1914							
Aug. 3	Fn.	EI	+0.060	−0.01	0	---	3
4	Wy.	EI	+0.055	−0.65	I	---	3
13	Hd.	WI	+0.097	−0.24	I	3.1	2
17	Fn.	WI	+0.017	+0.10	I	2.9	3
Mean	1913.60		+0.036	−0.40			
	1913.62						
Corr			−0.081	−0.11			

Weisse$_1$ XX 334

			h m s	° ′ ″			
1911							
July 6	Fn.	EII	20 16 9.450	+14 17 5.33	0	6.5	2
14	Hd.	WII	9.420	5.13	0	6.5	2
15	R.	WII	9.409	5.05	0	---	--
19	R.	EII	9.401	5.12	0	7.5	1
1915							
July 13	Fn.	WI	9.446	5.68	0	7.0	3
17	An.	WI	9.418	5.25	0	7.0	2½
20	Hd.	EI	9.425	5.56	0	7.0	3
22	Fn.	EI	9.408	5.56	0	7.0	2½
Mean	1913.54		20 16 9.422	+14 17 5.34			
Corr			−0.081	−0.22			

176 B. Cygni

			h m s	° ′ ″			
1915							
Aug. 18	Wy.	WI	20 16 59.537	+39 7 -----	0	7.0	2½
26	Hd.	WI	59.497	-----	0	7.0	2
Sept. 3	Hd.	WI	59.541	-----	0	7.0	2
10	Hd.	WI	59.544	-----	0	6.5	2
13	Hd.	EI	59.538	-----	0	6.0	2
16	Wy.	EI	59.525	-----	0	6.0	2

1915			h m s	° ′ ″			
Sept. 23	Hd.	EI	59.525		-----	0	6.0 2
27	Hd.	EI	59.538		-----	0	6.0 3
Oct. 21	Hd.	WI	59.529		-----	0	6.0 3
1916							
Aug. 21	Wy.	EI	59.512		-----	0	6.5 3
24	Wy.	WI	59.522		-----	0	6.5 2½
Sept. 4	Wy.	WI	59.498		-----	0	6.0 2
Oct. 17	Fn.	WI	59.520		-----	0	6.5 2½
1917							
Aug. 23	Fn.	EII	59.521		-----	0	6.0 2
25	Wy.	EII	59.512		-----	0	6.0 3
1918							
Aug. 8	Wy.	WII	59.569		-----	0	6.5 3
Mean-----	1916.37		20 16 59.527	+39 7	-----		
Corr-----			−0.081		-----		

Weisse$_2$ XX 600

1912			h m s	° ′ ″			
Aug. 31	R.	WII	20 18 44.204	+26 0 34.72	0	---	2
Sept. 6	Hd.	EII	44.213		35.46	0	7.5 3
9	Hd.	EII	44.147		35.29	0	7.0 2
12	R.	WII	44.174		34.58	0	7.5 1
1914							
July 9	Hd.	WI	44.217		35.46	0	7.0 2
19	Hd.	EI	44.176		35.64	0	7.0 2
20	Fn.	EI	44.208		34.97	0	7.0 2
Aug. 18	Wy.	WI	44.215		34.88	0	6.0 2½
Mean-----	1913.62		20 18 44.194	+26 0 35.12			
Corr-----			−0.081		−0.24		

γ Cygni

			h m s	° ′ ″			
			20 18 59.881	+39 58 5.42			
1911							
July 22	R.	EII	+0.054		−0.21	I	1.4 1
25	Hd.	EII	−0.025		−0.42	I	2.4 --
27	Fn.	WII	0.000		−0.56	I	2.1 2
31	Fn.	WII	+0.118		−0.13	0	--- --
Aug. 1	Hd.	WII	+0.047		−0.07	I	--- --
1914							
Oct. 17	Wy.	EI	+0.006		----	I	2.9 2½
1915							
June 19	Wy.	WI	+0.032		+0.03	II	2.1 2
22	Wy.	EI	+0.047		+0.22	II	2.6 2½
24	Fn.	EI	+0.017		−0.10	I	1.9 2
July 2	Hd.	WI	+0.014		+0.22	I	2.9 3
Aug. 12	Fn.	EI	+0.073		----	I	2.9 2
15	Wy.	EI	+0.021		----	II	2.6 2
23	Wy.	WI	+0.028		----	II	2.1 2
26	Hd.	WI	+0.024		----	I	2.9 2
Sept. 3	Hd.	WI	+0.022		----	II	--- 2
10	Hd.	WI	+0.061		----	II	2.6 2
13	Hd.	EI	+0.014		----	II	2.1 2
16	Wy.	EI	+0.030		----	II	2.1 2
23	Hd.	EI	+0.023		----	II	1.6 2
27	Hd.	EI	+0.019		----	II	2.6 2
Oct. 21	Hd.	WI	+0.013		----	II	2.6 2
1916							
Aug. 21	Wy.	EI	+0.035		----	II	2.1 2½
24	Wy.	WI	+0.057		----	I	2.9 2½
Sept. 4	Wy.	WI	+0.048		----	II	2.1 2
11	Hd.	WI	+0.022		----	II	2.1 2
19	Hd.	EI	+0.024		----	II	2.6 2
Oct. 12	Hd.	WI	−0.006		----	II	2.6 2
1917							
Aug. 23	Fn.	EII	+0.049		----	I	2.4 2
25	Wy.	EII	+0.027		----	II	2.6 2½
Dec. 26	*Hd.*	*EII*	*+0.131*		----	*0*	--- *3*
Mean-----	1915.61		+0.031		−0.11		
	1913.31						
Corr-----			−0.081		−0.27		

Groombridge 3157

1912			h m s	° ′ ″			
Sept. 14	R.	WII	20 19 49.443	+42 41 34.21	0		7.0 1
17	R.	WII	49.464		33.43	0	6.5 2
29	R.	EII	49.402		33.65	0	6.0 3
30	Hd.	EII	49.448		33.61	0	6.0 2
1914							
July 22	Fn.	EI	49.455		33.06	0	6.0 2
28	Hd.	EI	49.460		32.98	0	6.0 2
Aug. 13	Hd.	WI	49.477		33.89	0	6.0 3
17	Fn.	WI	49.424		33.96	0	6.0 2
Mean-----	1913.66		20 19 49.447	+42 41 33.60			
Corr-----			−0.081		−0.28		

296 G. Sagittarii

1912			h m s	° ′ ″			
Aug. 7	Fn.	EII	20 19 56.375	−28 57 20.80	0		7.5 3½
12	Fn.	EII	56.392		20.22	0	7.0 3
24	R.	WII	56.392		20.47	0	7.5 2½
27	R.	WII	56.389		21.01	0	6.5 3½
1914							
Aug. 31	Fn.	WI	56.408		20.89	0	6.0 3
Sept. 1	An.	WI	56.373		20.47	0	6.0 3
4	Fn.	WI	56.436		20.34	0	7.0 3½
8	Wy.	EI	56.407		21.10	0	6.0 3
9	Fn.	EI	56.376		20.30	0	6.5 3½
Mean-----	1913.77		20 19 56.394	−28 57 20.62			
Corr-----			−0.081		+0.01		

π Capricorni

			h m s	° ′ ″			
			20 22 10.260	−18 30 25.95			
1911							
June 29	Fn.	WII	+0.004		−0.51	0	--- 2
30	Hd.	WII	+0.040		−0.31	0	6.0 --
July 3	Fn.	EII	+0.023		−0.56	0	--- 2
5	R.	EII	+0.018		−1.41	0	5.0 --
1915							
July 9	Fn.	WI	+0.079		−1.17	0	5.5 3
13	Fn.	WI	+0.023		−1.58	0	5.5 3½
20	Hd.	EI	+0.090		−0.53	0	6.0 3
22	Fn.	EI	+0.070		−0.77	0	--- 3
Mean-----	1913.52		+0.043		−0.86		
Corr-----			−0.081		−0.09		

Weisse$_2$ XX 706

1912			h m s	° ′ ″			
July 26	R.	WII	20 22 16.446	+17 1 13.28	0		5.5 2½
Aug. 3	R.	EII	16.518		14.20	0	7.0 1
5	Fn.	EII	16.506		14.18	0	6.7 1½
15	R.	WII	16.520		13.49	0	7.0 3
1914							
July 31	Fn.	EI	16.476		14.04	0	6.0 1½
Aug. 3	Fn.	EI	16.521		13.93	0	6.5 2
18	Wy.	WI	16.520		13.89	0	6.0 2½
22	An.	WI	16.556		14.51	0	6.0 2
30	Wy.	WI	16.567		13.65	0	6.5 2½
Mean-----	1913.72		20 22 16.514	+17 1 13.91			
Corr-----			−0.081		−0.22		

Lacaille 8457

1911			h m s	° ′ ″			
July 1	R.	WII	20 22 37.745	−25 54 15.45	0		7.5 --
6	Fn.	EII	37.718		14.22	0	7.0 3½
10	Fn.	WII	37.733		15.23	0	6.8 3
18	Hd.	EII	37.706		15.06	0	7.5 3½

			h m s	° ′ ″			
1915							
July 6	Fn.	WI	37.766	15.30	0	7.5	3
8	Hd.	WI	37.773	14.88	0	7.5	3½
24	An.	EI	37.719	13.61	0	---	3½
31	An.	EI	37.740	-----	0	6.0	4
Aug. 10	An.	EI	37.765	13.63	0	---	3
Mean------	1913.76		20 22 37.741	−25 54 14.67			
	1913.53						
Corr----------			−0.081	−0.02			

ρ Capricorni [1]

			h m s	° ′ ″			
			20 23 43.712	−18 6 42.40			
1912							
Aug. 29	R.	WII	+0.069	−0.58	0	5.5	3
31	R.	WII	+0.009	+0.06	0	5.5	3
Sept. 6	Hd.	EII	+0.086	−0.02	0	5.5	3
9	Hd.	EII	+0.055	−0.14	0	5.5	2
1914							
Sept. 4	Fn.	WI	+0.063	+0.79	0	6.0	3½
5	Wy.	WI	+0.093	−0.10	I	4.4	2½
9	Fn.	EI	+0.027	+0.14	0	5.5	3
10	An.	EI	+0.183	+0.29	0	6.0	3
13	Wy.	EI	+0.080	−0.34	I	5.6	3
Mean------	1913.79		+0.074	+0.01			
Corr----------			−0.081	−0.09			

Lalande 39389

			h m s	° ′ ″			
1911							
July 12	R.	WII	20 23 44.791	+8 8 21.01	0	---	4½
14	Hd.	WII	44.799	20.86	0	6.5	2½
19	R.	EII	44.743	20.09	0	---	1
20	Fn.	EII	44.770	20.75	0	---	--
1915							
July 14	An.	WI	44.788	-----	0	6.5	3
17	An.	WI	44.755	21.04	0	6.5	2½
Aug. 9	Fn.	EI	44.751	20.93	0	6.5	2½
12	Fn.	EI	44.765	20.68	0	6.5	2
17	An.	WI	44.744	20.92	0	7.0	3
Mean------	1913.79		20 23 44.767	+8 8 20.78			
	1913.57						
Corr----------			−0.081	−0.20			

Groombridge 3191

			h m s	° ′ ″			
1911							
Aug. 6	R.	WII	20 24 13.022	+56 20 28.78	0	5.5	1
7	Fn.	WII	13.046	29.73	0	6.7	2
9	Fn.	EII	13.004	30.47	0	6.7	2½
15	R.	EII	13.119	30.30	0	5.5	2½
1915							
Aug. 13	An.	EI	13.041	29.86	0	7.0	3
15	Wy.	EI	13.087	29.94	0	7.0	2½
21	Wy.	WI	13.091	30.51	0	7.0	3
25	Wy.	WI	13.052	30.61	0	7.0	2
Mean------	1913.62		20 24 13.058	+56 20 30.02			
Corr----------			−0.081	−0.30			

40 Cygni

			h m s	° ′ ″			
1911							
July 15	R.	WII	20 24 14.168	+38 8 39.90	0	---	--
22	R.	EII	14.173	39.09	0	5.0	1½
24	Fn.	EII	14.223	39.11	0	---	--
26	R.	WII	14.122	39.31	0	---	2½
1915							
Aug. 26	Hd.	WI	14.153	38.93	0	6.5	2
31	Wy.	WI	14.158	38.73	0	---	3
Sept. 1	Hd.	WI	14.173	38.93	0	---	2½
13	Hd.	EI	14.168	38.93	0	6.0	2
14	Wy.	EI	14.170	38.85	0	6.0	2
Mean------	1913.85		20 24 14.168	+38 8 39.09			
Corr----------			−0.081	−0.27			

Piazzi XX 146

			h m s	° ′ ″			
1912							
Sept. 19	R.	WII	20 24 14.652	−22 41 25.86	0	6.5	2
20	Hd.	WII	14.664	25.72	0	6.5	3
27	Hd.	EII	14.661	26.15	0	6.0	4
Oct. 1	Hd.	EII	14.671	24.96	0	6.2	3
1914							
July 20	Fn.	EI	14.667	25.94	0	6.5	3
28	Hd.	EI	14.685	26.49	0	6.5	3
Aug. 13	Hd.	WI	14.665	26.02	0	6.5	2½
14	Wy.	WI	14.683	26.19	0	6.5	3
Mean------	1913.66		20 24 14.668	−22 41 25.92			
Corr----------			−0.081	−0.05			

69 Aquilæ

			h m s	° ′ ″			
1912							
Aug. 23	Fn.	WII	20 24 56.805	− 3 11 6.60	0	5.6	2
24	R.	WII	56.876	7.75	I	4.9	2
Sept. 29	R.	EII	56.889	7.99	0	5.5	3
30	Hd.	EII	56.850	7.30	0	5.5	2
1914							
July 9	Hd.	WI	56.877	7.25	I	4.9	2
18	Hd.	EI	56.885	7.36	0	---	2
19	Hd.	EI	56.889	6.76	I	4.9	3
Aug. 17	Fn.	WI	56.855	7.30	0	---	--
Mean------	1913.63		20 24 56.866	− 3 11 7.29			
Corr----------			−0.081	−0.17			

B. D.+38° 4102

			h m s	° ′ ″			
1916							
Aug. 24	Wy.	WI	20 25 -----	+39 1 45.22	0	7.5	2½
25	Fn.	WI	-----	44.61	0	6.5	2
Sept. 19	Hd.	EI	-----	44.90	0	7.0	2
20	Wy.	EI	-----	44.69	0	7.0	2
Mean------	1916.68		20 25 -----	+39 1 44.86			
Corr----------			-----	−0.27			

41 Cygni

			h m s	° ′ ″				
			20 25 43.144	+30 4 4.09				
1911								
July 25	Hd.	EII	−0.053	−0.61	0	---	2	
27	Fn.	WII	−0.097	−0.26	I	3.6	2	
31	Fn.	WII	−0.023	----	I	4.2	2	
Aug. 1	Hd.	WII	-----	−0.32	0	---	--	
8	R.	EII	−0.078	−0.54	I	3.4	1½	
1913								
Aug. 7	R.–Fn.	WII	-----	−1.58	I	---	1½	R.
7	R.–Fn.	WII	-----	+0.35	I	3.4	1½	
11	R.–Fn.	WII	-----	−1.67	I	---	2	R.
11	R.–Fn.	WII	-----	+0.89	I	---	3	
15	Fn.–R.	WII	-----	−0.71	I	---	1½	R.
15	Fn.–R.	WII	-----	+0.15	I	3.4	1½	
16	Fn.–R.	WII	-----	−0.46	I	---	2	R.
16	Fn.–R.	WII	-----	−0.60	I	3.9	2	
20	R.–Fn.	EII	-----	−0.35	I	---	2	R.
20	R.–Fn.	EII	-----	−0.65	I	2.9	1½	
21	R.–Fn.	EII	-----	−0.34	I	---	2	R.
21	R.–Fn.	EII	-----	−0.10	I	2.9	2	
25	R.–Fn.	EII	-----	−0.31	I	---	2	R.
25	R.–Fn.	EII	-----	−0.80	II	3.1	2	
26	Fn.–R.	EII	-----	−0.26	I	---	3	R.
26	Fn.–R.	EII	-----	−0.41	I	---	3	
30	Fn.–R.	EII	-----	−1.39	0	---	2½	R.
30	Fn.–R.	EII	-----	+0.07	I	---	1½	
31	Fn.–R.	EII	-----	−0.43	I	---	2½	R.
31	Fn.–R.	EII	-----	−0.94	I	3.9	2½	
Sept. 2	Fn.–R.	EII	-----	−0.81	0	---	2½	R.
2	Fn.–R.	EII	-----	+0.80	I	3.9	2½	
4	Fn.–R.	EII	-----	−0.41	I	---	2	R.
4	Fn.–R.	EII	-----	−0.13	I	3.9	2	

[1] Double: n. component observed.

				s	"			
1914								
Sept. 15	An.	EI	−0.051	----	I	4.9	1½
16	Wy.	EI	−0.068	----	0	---	--
1915							
Aug. 14	Wy.	EI	−0.040	−0.12	I	4.4	2
16	Fn.	EI	−0.043	+0.12	0	---	2½
18	Wy.	WI	−0.024	+0.39	I	4.9	2½
19	Fn.	WI	−0.046	−0.48	0	5.0	1½
Sept. 3	Hd.	WI	−0.102	----	I	3.9	2
23	Hd.	EI	−0.011	----	I	3.4	2
27	Hd.	EI	−0.012	----	I	3.9	2
1916							
Sept. 4	Wy.	WI	−0.058	----	I	3.9	2
1917							
Aug. 23	Fn.	EII	−0.054	----	0	---	2
Sept. 6	Wy.	EII	−0.060	----	0	---	3½
Mean	1914.84		−0.051	−0.16			
	1913.63						
Corr			−0.081	−0.25			

42 Cygni

			h	m	s	°	′	″			
1916											
Oct. 6	Wy.	WI	20	25	54.392	+36	9	-----	0	6.5	2
Corr					−0.081			-----			

Piazzi XX 174

			h	m	s	°	′	″			
1912											
Sept. 14	R.	WII	20	27	28.424	−10	9	39.40	0	7.0	2
17	R.	WII			28.419			39.34	0	7.0	2
28	R.	EII			28.499			39.80	0	5.5	1
Oct. 2	R.	EII			28.453			39.27	0	6.5	2½
3	Hd.	EII			28.431			39.07	0	6.0	2
1914											
Sept. 5	Wy.	WI			28.511			38.86	I	5.4	2½
8	Wy.	EI			28.469			39.30	0	6.0	3
9	Fn.	EI			28.481			39.26	0	6.0	3
28	Hd.	WI			28.460			39.27	0	6.0	2
Mean	1913.61		20	27	28.461	−10	9	39.29			
Corr					−0.081			−0.14			

θ Cephei

			h	m	s	°	′	″			
			20	28	4.473	+62	41	28.75			
					s	"		"			
1912											
July 25	Fn.	WII			−0.07			+0.97	0	---	2½
26	R.	WII			−0.06			+1.09	I	4.4	3
Sept. 10	R.	EII			−0.08			+0.35	I	3.4	2
Oct. 1	Hd.	EII			−0.06			+0.50	I	3.9	2
1914											
July 31	Fn.	EI			−0.10			+0.61	I	4.4	2½
Aug. 3	Fn.	EI			−0.01			+0.81	I	4.4	2
18	Wy.	WI			−0.03			+0.77	I	3.4	2½
Sept. 1	An.	WI			+0.02			+1.20	I	3.9	2½
4	Fn.	WI			+0.06			+0.06	0	---	2½
1916											
Sept. 11	Hd.	WI			0.00			+1.29	I	3.4	2
25	Wy.	EI			−0.01			+0.88	I	4.4	3
26	Hd.	EI			−0.01			+0.47	I	3.4	2
Oct. 6	Wy.	WI			+0.03			−0.19	I	4.4	2
10	Fn.	WI			+0.04			+0.93	0	---	2
12	Hd.	WI			−0.03			+0.35	I	3.4	2
26	Wy.	EI			−0.03			+0.39	I	3.9	2½
27	Hd.	EI			+0.03			+0.70	I	4.4	2
Nov. 2	Hd.	EI			−0.06			+0.48	I	4.4	2
3	Fn.	EI			−0.10			+0.29	0	4.5	2
7	Wy.	EI			−0.01			+0.76	I	---	3½
9	Wy.	EI			−0.17			+0.56	0	---	3
Nov. 16	*Wy.*	*WI*			*−0.03*	*+0.22*		*+0.20*	*0*	---	*3*
Dec. 7	*Fn.*	*EI*			*+0.04*	*+0.32*		*+0.27*	*0*	---	*3½*
8	*Hd.*	*EI*			*−0.06*	*+0.27*		*+0.24*	*0*	---	*2*
1917											
Aug. 25	Wy.	EII			0.00			+0.31	I	---	3
Sept. 11	Fn.	EII			0.00			+0.85	0	4.5	2½
13	Hd.	EII			−0.06			+0.89	I	4.4	2

				s	"	"			
1917									
Sept. 17	Hd.	EII		−0.08		+0.47	I	4.4	2
18	Wy.	EII		+0.05		+0.27	I	4.4	3
20	Hd.	WII		+0.02		+0.84	I	---	3
Oct. 2	Fn.	WII		−0.06		+0.91	0	4.5	2½
4	Hd.	WII		−0.03		+0.63	I	3.9	3
11	Hd.	EII		−0.06		+0.51	I	4.9	3
15	Fn.	EII		+0.04		−0.22	0	4.5	3
26	Fn.	EII		+0.16		+0.19	0	4.5	3
Nov. 20	*Fn.*	*WII*		*−0.08*	*+0.88*	*+0.83*	*0*	---	*2½*
Dec. 20	*Hd.*	*EII*		*−0.02*	*+0.35*	*+0.25*	*0*	---	*3*
1918									
Feb. 10	*Wy.*	*WII*		*−0.07*	*−0.17*	*−0.26*	*0*	---	*3½*
26	*Hd.*	*EII*		*+0.15*	*+0.23*	*+0.14*	*0*	---	*3*
Mar. 25	*Wy.*	*WII*		*+0.07*	*−0.71*	*−0.74*	*0*	---	*3½*
Aug. 8	Wy.	WII		−0.01		+0.88	0	4.5	3
Mean	1916.33			−0.021		+0.60			
Corr				−0.081		−0.33			

θ Cephei s. p.

			h	m	s	°	′	″			
			20	28	-----	+62	41	28.72			
1917											
Mar. 6	Fn.	WI			-----			−0.6	0	---	3½
12	Hd.	EI			-----			−0.2	0	---	4
Apr. 10	Fn.	WI			-----			−1.1	0	---	4½
16	Fn.	WI			-----			−1.4	0	---	4
1918											
Mar. 15	Fn.	WII			-----			0.0	0	---	3½
25	Fn.	WII			-----			+0.7	0	---	4
Apr. 5	Fn.	EII			-----			−0.3	0	---	3½
Mean	1917.66				-----			−0.41			
Corr					-----			+0.83			

Bradley 2647

			h	m	s	°	′	″			
1911											
June 29	Fn.	WII	20	28	32.124	+48	54	58.70	0	6.0	2
30	Hd.	WII			32.169			58.97	0	5.5	--
July 3	Fn.	EII			32.121			58.08	0	---	2
5	R.	EII			32.121			58.29	0	5.0	--
1915											
June 22	Wy.	EI			32.229			58.36	0	6.0	2½
28	Wy.	EI			32.226			58.23	I	4.4	2
July 2	Hd.	WI			32.166			57.54	0	6.0	3
6	Fn.	WI			32.120			57.83	0	5.5	2
Mean	1913.50		20	28	32.160	+48	54	58.25			
Corr					−0.081			−0.29			

ε Delphini

			h	m	s	°	′	″			
			20	28	54.815	+10	59	48.49			
					s	"		"			
1911											
July 1	R.	WII			+0.050			+0.09	I	3.9	--
6	Fn.	EII			+0.038			−0.47	0	4.5	2
10	Fn.	WII			+0.020			+0.24	I	3.9	2
18	Hd.	EII			+0.006			+0.07	I	3.4	
1912											
Mar. 29	*R.*	*WII*			*+0.027*	*+0.63*		*+0.65*	*0*	---	--
Apr. 18	*Hd.*	*EII*			*+0.023*	*+0.38*		*+0.38*	*0*	---	*3*
May 1	*Fn.*	*EII*			*+0.014*	*+0.38*		*+0.39*	*0*	---	*2*
Aug. 1	R.	WII			+0.024			+0.62	0	---	2
3	R.	EII			+0.034			----	I	4.4	1½
15	R.	WII			+0.040			−0.04	I	2.9	2½
29	R.	WII			+0.048			+0.40	I	4.4	2½
31	R.	WII			+0.036			−1.06	I	4.4	1½
Sept. 4	Hd.	EII			+0.035			----	I	3.9	2
12	R.	WII			+0.057			+0.31	I	3.9	2
19	R.	WII			+0.011			----	I	3.9	1
21	R.	WII			+0.028			+0.74	0	---	1
27	Hd.	EII			+0.023			+0.12	I	3.9	3
Oct. 4	Hd.	EII			−0.009			+0.20	I	3.1	1
11	Hd.	WII			+0.016			+0.42	I	4.4	2
15	Hd.	WII			+0.048			+0.67	I	3.4	3

				s	"	"				
1914										
Sept.	15	An.	EI	+0.025		+1.25	I	2.9	2	
	16	Wy.	EI	+0.026		+0.61	I	3.9	2½	
	18	An.	EI	+0.048		+0.38	I	---	2	
	19	Wy.	EI	+0.024		+0.65	I	3.9	3	
	20	An.	EI	+0.023		−0.37	I	3.9	2	
	21	Hd.	EI	+0.023		----	I	3.4	2	
	22	Wy.	EI	+0.029		+0.93	I	3.9	2½	
	23	An.	EI	+0.026		+0.05	I	3.4	2	
	26	An.	EI	−0.020		+0.55	I	3.4	2½	
	29	Wy.	WI	+0.027		+0.28	I	3.9	2½	
	30	An.	WI	+0.023		+0.31	I	3.9	2½	
Oct.	1	Hd.	WI	+0.034		−0.32	I	3.4	2½	
	22	An.	EI	-----		+0.62	I	4.4	3	
Nov.	5	Wy.	WI	+0.027		----	I	3.4	3	
1915										
Mar.	*30*	*An.*	*EI*	*+0.065*	*+0.56*	*+0.57*	*0*	---	*3*	
	31	*Fn.*	*EI*	*+0.035*	*+0.55*	*+0.55*	*0*	---	*3½*	
July	22	Fn.	EI	+0.026		----	0	---	2	
	24	An.	EI	+0.023		----	I	---	2	
Aug.	5	Fn.	EI	+0.038		----	0	---	2½	
	9	Fn.	EI	+0.062		+0.23	I	4.4	3	
	10	An.	EI	+0.038		+0.51	I	4.4	2	
	12	Fn.	EI	+0.006		+0.20	0	4.5	2	
	13	An.	EI	+0.072		+0.73	I	4.9	3	
	14	Wy.	EI	+0.020		+0.51	I	4.4	3	
	15	Wy.	EI	+0.038		+0.03	I	4.4	2½	
	16	Fn.	EI	+0.046		+1.02	0	---	3	
	17	An.	WI	+0.021		+0.22	I	4.4	3	
	18	Wy.	WI	+0.020		+1.31	I	4.4	3	
	21	Wy.	WI	+0.041		−0.23	I	4.4	3½	
	23	Wy.	WI	-----		+0.03	I	3.4	2½	
	25	Wy.	WI	+0.054		+0.17	I	4.9	3	
	26	Hd.	WI	+0.017		+0.57	I	---	2	
Sept.	1	Hd.	WI	+0.013		−0.32	I	---	2½	
	3	Hd.	WI	+0.025		+0.13	I	4.4	2	
	8	Hd.	WI	+0.014		−0.19	I	3.4	2	
	10	Hd.	WI	+0.001		−0.03	I	3.4	2	
	13	Hd.	EI	+0.028		+0.06	I	3.4	2	
	15	Hd.	EI	+0.050		----	I	2.9	2	
	16	Wy.	EI	+0.026		----	I	3.9	2½	
	22	Hd.	EI	+0.025		+0.41	I	3.4	2	
	23	Hd.	EI	+0.018		----	I	3.4	2	
	27	Hd.	EI	+0.019		+0.35	I	3.9	2½	
	28	Fn.	EI	+0.039		----	I	3.9	2½	
Oct.	6	Fn.	WI	-----		+0.10	0	---	2½	
	8	Hd.	WI	+0.029		+0.28	I	3.9	4	
	21	Hd.	WI	+0.010		----	I	3.9	2	
Mean			1914.50	+0.028		+0.28				
			1914.47							
Corr				−0.081		−0.21				

Weisse$_1$ XX 639

				h	m	s	°	′	″				
1912													
July	27	Fn.	WII	20	29	31.142	+4	35	25.94	0	6.5	2	
Aug.	27	R.	WII			31.161			25.99	0	6.5	4	
Sept.	6	Hd.	EII			31.164			26.37	0	6.8	2	
	9	Hd.	EII			31.182			27.05	0	6.5	2	
1914													
July	22	Fn.	EI			31.164			26.68	0	7.0	2	
	28	Hd.	EI			31.172			26.59	0	6.5	3	
Aug.	17	Fn.	WI			31.133			26.45	0	6.5	2	
	22	An.	WI			31.196			26.96	0	7.0	2	
	30	Wy.	WI			31.174			26.59	0	6.5	3	
Mean			1913.74	20	29	31.165	+4	35	26.51				
Corr						−0.081			−0.19				

Groombridge 3241

				h	m	s	°	′	″				
				20	30	24.169	+72	13	36.44				
1912													
Sept.	20	Hd.	WII			+0.09			+0.73	0	6.0	3	
	29	R.	EII			+0.11			−0.17	0	6.0	3	
Oct.	3	Hd.	EII			+0.08			+0.33	0	6.0	2	
	8	Hd.	WII			+0.07			−0.22	0	6.5	--	

				s		"				
1914										
July	9	Hd.	WI	+0.19		+0.63	0	6.5	2	
	18	Hd.	EI	+0.20		+0.35	0	---	3	
	20	Fn.	EI	+0.13		+0.24	0	6.5	2½	
Aug.	15	Fn.	WI	+0.08		+0.50	0	6.5	2	
Mean			1913.65	+0.119		+0.30				
Corr				−0.081		−0.34				

Groombridge 3241 s. p.

				h	m	s	°	′	″				
				20	30	24.170	+72	13	36.45				
1913													
Jan.	3	Fn.	WII			+0.11			−0.06	0	7.2	4	
	14	R.	WII			+0.02			−0.12	0	7.0	1½	
	21	R.	EII			+0.23			−0.66	0	6.5	2	
	22	Fn.	EII			+0.10			−0.77	0	---	4	
Nov.	22	R.	WI			+0.18			−0.05	0	---	4	
	24	Hd.	WI			+0.09			−0.44	0	7.0	3½	
Dec.	8	Hd.	EI			+0.15			−0.01	0	7.0	4	
	11	Hd.	EI			−0.07			−0.33	0	6.5	3½	
Mean			1913.48			+0.101			−0.30				
Corr						−0.081			+0.57				

α Indi

				h	m	s	°	′	″				
				20	31	-----	−47	36	21.44				
1915													
Sept.	16	Wy.	EI			-----			−4.7	0	---	5	
	28	Fn.	EI			-----			+0.1	0	---	4½	
Oct.	12	Wy.	WI			-----			−7.5	0	---	5	
	23	Fn.	WI			-----			+2.7	0	---	5	
Mean			1915.76			-----			−2.35				
Corr						-----			+1.64				

73 Draconis

				h	m	s	°	′	″				
1911													
July	31	Fn.	WII	20	32	42.41	+74	38	46.71	0	5.6	2	
Aug.	1	Hd.	WII			42.29			46.87	0	6.0	--	
	15	R.	EII			42.51			46.63	0	5.0	2½	
	16	Fn.	EII			42.42			47.08	0	5.3	2½	
1915													
July	9	Fn.	WI			42.39			45.89	0	---	3	
	13	Fn.	WI			42.19			46.10	0	5.5	3	
	23	Hd.	EI			42.33			47.33	0	6.0	3	
	24	An.	EI			42.46			47.07	I	5.4	2	
Mean			1913.57	20	32	42.375	+74	38	46.71				
Corr						−0.081			−0.35				

73 Draconis s. p.

				h	m	s	°	′	″				
1912													
Mar.	17	R.	EII	20	32	42.40	+74	38	46.35	0	6.0	2½	
	22	Hd.	EII			42.51			47.27	0	6.0	3	
	31	Hd.	WII			42.26			46.62	0	5.5	4	
Apr.	3	R.	WII			42.29			45.74	0	---	4	
1916													
Jan.	7	Wy.	EI			42.45			46.06	0	6.0	3	
	8	Fn.	EI			42.44			45.88	0	6.0	3½	
Feb.	9	Hd.	WI			42.40			46.55	0	5.5	3½	
Mar.	4	Wy.	WI			42.20			46.52	0	6.0	4	
	5	Fn.	WI			42.61			45.03	0	---	3½	
	9	Fn.	WI			42.39			46.71	0	---	4	
Mean			1914.56	20	32	42.395	+74	38	46.27				
Corr						−0.081			+0.53				

β Delphini [1]

				h m s	° ′ ″			
				20 33 19.786	+14 16 53.46			
1911								
July 25	Hd.	EII		−0.016	−0.61	I	2.9	2
26	R.	WII		+0.002	−0.32	I	2.9	1½
27	Fn.	WII		−0.001	+0.49	I	3.3	2
Aug. 8	R.	EII		+0.012	−0.51	I	3.4	1
1915								
June 22	Wy.	EI		+0.032	+0.30	I	3.9	2½
24	Fn.	EI		−0.026	−0.34	I	3.9	2½
July 6	Fn.	WI		−0.022	−0.20	I	3.9	2
8	Hd.	WI		+0.014	+0.44	I	3.4	2
Mean	1913.54			−0.001	−0.09			
Corr				−0.081	−0.22			

Bradley 2704

				h m s	° ′ ″			
1912								
Sept. 17	R.	WII		20 33 55.69	+81 6 56.00	0	6.0	1½
19	R.	WII		55.50	56.23	0	5.5	1
Oct. 1	Hd.	EII		55.72	55.54	0	5.8	3
2	R.	EII		55.62	56.81	0	5.5	3
1914								
July 31	Fn.	EI		55.74	55.67	0	6.0	3
Aug. 3	Fn.	EI		55.90	55.57	0	5.5	3
13	Hd.	WI		55.80	55.31	0	6.5	2½
14	Wy.	WI		55.54	55.18	0	6.5	3
Mean	1913.67			20 33 55.689	+81 6 55.79			
Corr				−0.081	−0.37			

Bradley 2704 s. p.

				h m s	° ′ ″			
1913								
Feb. 12	Fn.	WII		20 33 55.19	+81 6 56.04	0	5.6	3½
13	R.	WII		55.69	55.57	0	6.0	3
18	Hd.	EII		55.84	55.53	0	6.0	2
25	Hd.	EII		55.60	55.34	0	5.8	3
1914								
Jan. 15	Hd.	EI		55.74	54.83	0	6.0	4
17	Wy.	WI		55.28	55.23	0	6.0	3½
Feb. 17	Wy.	WI		55.42	56.01	0	6.0	3
26	Fn.	EI		55.72	53.24	0	6.5	3½
Mar. 4	Hd.	WI		55.47	54.37	0	6.0	3½
Mean	1913.68			20 33 55.550	+81 6 55.13			
Corr				−0.081	+0.47			

Weisse$_1$ XX 799

				h m s	° ′ ″			
1912								
July 27	Fn.	WII		20 34 20.944	− 5 14 48.19	0	6.8	2½
Aug. 7	Fn.	EII		20.882	46.82	0	6.8	2
12	Fn.	EII		20.940	47.03	0	---	3
23	Fn.	WII		20.919	46.87	0	---	3
1914								
Aug. 18	Wy.	WI		20.938	47.33	0	6.5	2½
20	Fn.	WI		20.931	47.27	0	7.0	2½
Sept. 8	Wy.	EI		20.934	46.62	0	6.0	3
9	Fn.	EI		20.920	46.62	0	6.5	2½
Mean	1913.64			20 34 20.926	−5 14 47.09			
Corr				−0.081	−0.16			

θ Delphini

				h m s	° ′ ″			
1911								
Aug. 6	R.	WII		20 34 29.163	+12 59 55.14	0	5.0	1
7	Fn.	WII		29.163	55.70	0	5.5	2
9	Fn.	EII		29.118	55.03	0	5.5	2½
10	R.	EII		29.206	54.17	0	5.0	1
1915								
July 17	An.	WI		29.160	55.51	0	6.0	3
20	Hd.	EI		29.160	55.11	0	6.5	3
1915								
Aug. 9	Fn.	EI		29.151	55.37	0	5.5	2½
18	Wy.	WI		29.102	55.53	0	6.5	3
19	Fn.	WI		29.111	54.13	0	6.0	1½
Mean	1913.82			20 34 29.148	+12 59 55.08			
Corr				−0.081	−0.22			

Bradley 2668

				h m s	° ′ ″			
1912								
July 25	Fn.	WII		20 34 36.655	+23 47 59.03	0	---	3½
26	R.	WII		36.679	58.78	0	6.0	3
Aug. 3	R.	EII		36.653	59.26	0	5.5	2
5	Fn.	EII		36.693	59.46	0	---	2
1914								
July 22	Fn.	EI		36.682	59.27	0	5.5	2
28	Hd.	EI		36.689	58.92	I	4.9	2
Aug. 15	Fn.	WI		36.680	60.63	0	5.5	2
17	Fn.	WI		36.683	59.53	0	5.5	2
Mean	1913.59			20 34 36.677	+23 47 59.36			
Corr				−0.081	−0.24			

κ Delphini

				h m s	° ′ ″			
1911								
July 10	Fn.	WII		20 34 45.532	+9 46 7.68	0	---	--
12	R.	WII		45.529	7.41	0	---	--
18	Hd.	EII		45.515	[10.18][3]	I	4.4	--
19	R.	EII		45.561	7.09	0	---	--
1915								
Aug. 13	An.	EI		45.645	7.98	I	---	3
14	Wy.	EI		45.632	7.67	0	6.5	3
21	Wy.	WI		45.643	6.81	0	6.0	3
23	Wy.	WI		------	6.53	I	5.4	2½
25	Wy.	WI		45.666	7.64	0	5.5	3
Mean	1913.58 1914.10			20 34 45.590	+9 46 7.35			
Corr				−0.081	−0.21			

υ Capricorni

				h m s	° ′ ″				
				20 34 55.671	−18 27 21.32				
1911									
Sept. 20	R.	WII		+0.062	−0.93	I	4.4	3	
26	Hd.	EII		+0.054	−0.12	0	5.5	3½	
28	Fn.	EII		+0.091	+0.46	0	5.6	2½	
29	Hd.	EII		+0.077	−1.43	0	5.5	4	
Oct. 11	Hd.	WII		+0.064	−1.05	0	5.5	3	
1913									
Aug. 7	R.–Fn.	WII		-----	−2.71	0	---	3	R.
7	R.–Fn.	WII		-----	−0.43	I	4.9	2½	
14	R.–Fn.	WII		-----	−2.10	0	---	3	R.
14	R.–Fn.	WII		-----	−0.79	I	4.9	3½	
15	Fn.–R.	WII		-----	−1.11	0	---	2½	R.
15	Fn.–R.	WII		-----	−0.70	0	5.3	2½	
16	Fn.–R.	WII		-----	−1.61	0	---	3	R.
16	Fn.–R.	WII		-----	−0.97	0	5.2	2½	
20	R.–Fn.	EII		-----	−1.03	0	---	--	R.
20	R.–Fn.	EII		-----	−0.65	I	---	--	
25	R.–Fn.	EII		-----	−1.44	0	---	2½	R.
25	R.–Fn.	EII		-----	−1.00	I	4.9	2	
26	Fn.–R.	EII		-----	−2.48	0	---	3½	R.
26	Fn.–R.	EII		-----	−0.69	0	5.0	3	
31	Fn.–R.	EII		-----	−1.70	0	---	3	R.
31	Fn.–R.	EII		-----	−0.49	0	5.5	3	
Sept. 2	Fn.–R.	EII		-----	−1.76	0	---	3	R.
2	Fn.–R.	EII		-----	−0.02	0	5.5	3	
4	Fn.–R.	EII		-----	−1.44	0	---	2½	R.
4	Fn.–R.	EII		-----	−0.27	0	5.5	2½	
1915									
Aug. 10	An.	EI		+0.068	−0.55	0	6.0	2½	
12	Fn.	EI		+0.070	−0.75	0	5.5	2½	
26	Hd.	WI		+0.095	−0.76	0	---	3	
Sept. 1	Hd.	WI		+0.094	−1.04	0	6.0	3	
Mean	1913.47 1913.56			+0.075	−0.64				
Corr				−0.081	−0.09				

[1] Double; mean observed.

[3] Micrometer readings doubtful.

α Delphini

			h m s	° ′ ″			
			20 35 27.497	+15 35 39.43			
1911			s	″	″		
Sept. 6	R.	WII	+0.003		−0.28	I	3.4 1
7	Fn.	WII	−0.024		−0.17	I	3.6 3
11	Fn.	WII	+0.010		−1.23	I	3.8 1½
12	Hd.	WII	+0.005		−0.29	I	3.4 3
13	R.	WII	+0.015		----	I	3.4 1
18	Fn.	WII	+0.021		----	0	--- 2
23	R.	WII	+0.016		−0.89	I	2.9 1½
25	Fn.	EII	+0.020		----	I	3.5 3
30	R.	EII	−0.011		−0.63	I	3.4 1
Oct. 5	R.	EII	+0.011		−0.39	I	--- 4
6	Fn.	EII	+0.013		−0.71	I	3.7 2½
18	Hd.	WII	+0.021		−0.51	I	3.4 2
25	R.	WII	+0.043		−0.65	I	3.4 1½
26	R.	WII	−0.001		−0.83	I	3.4 2
30	R.	EII	−0.032		−0.56	I	2.9 1½
Nov. 2	R.	EII	+0.008		+0.46	I	2.9 2½
3	R.	EII	+0.037		−0.07	I	3.4 1½
7	Fn.	EII	+0.009		−0.59	I	3.8 3
10	Fn.	EII	+0.008		−0.60	I	3.5 3½
1912							
Aug. 1	R.	WII	+0.022		−0.18	0	--- 1½
10	R.	EII	−0.004		−0.55	I	4.4 1
15	R.	WII	+0.038		−1.02	0	--- 2½
27	R.	WII	−0.010		−1.04	I	3.4 2½
29	R.	WII	+0.040		−0.52	I	3.4 2
31	R.	WII	+0.020		−0.76	I	--- 2
Sept. 4	Hd.	EII	0.000		----	0	--- 2
6	Hd.	EII	−0.003		−1.08	I	3.9 2
9	Hd.	EII	+0.003		−0.84	I	3.9 2
10	R.	EII	+0.032		−0.43	I	3.4 1½
14	R.	WII	+0.011		−1.07	I	4.4 1½
21	R.	WII	+0.047		−0.23	0	--- 1
27	Hd.	EII	+0.009		----	0	--- 3
28	R.	EII	+0.017		----	I	2.9 1
Oct. 3	Hd.	EII	+0.031		−0.59	I	2.9 2
4	Hd.	EII	+0.001		−0.65	I	3.1 1
5	Hd.	EII	+0.018		−0.86	I	2.9 2
8	Hd.	WII	+0.006		−0.87	I	3.9 2
9	Hd.	WII	+0.037		−0.75	I	3.9 1
10	Hd.	WII	+0.046		−0.68	I	3.9 2½
11	Hd.	WII	+0.013		−0.49	I	3.9 2
15	Hd.	WII	−0.007		−0.69	I	3.4 3
16	Fn.	WII	−0.002		−0.70	I	3.5 1½
18	Fn.	WII	−0.013		−0.71	0	--- 2
26	Fn.	EII	+0.009		−1.06	I	2.6 2½
1913							
Apr. 7	*Hd.*	*WII*	*+0.019*	*−0.55*	*−0.56*	*0*	--- *3*
1914							
Mar. 23	*Wy.*	*EI*	*−0.017*	*−1.26*	*−1.25*	*0*	--- *2½*
Apr. 3	*Hd.*	*WI*	*0.000*	*−0.94*	*−0.92*	*0*	--- *3*
9	*Wy.*	*WI*	*−0.009*	*−0.82*	*−0.90*	*0*	--- *3*
13	*Wy.*	*EI*	-----	*−0.06*	*−0.11*	*0*	--- *3*
Aug. 30	Wy.	WI	+0.044		−0.86	I	3.4 2½
31	Fn.	WI	+0.015		−0.36	I	3.4 2
Sept. 1	An.	WI	−0.033		−0.45	I	3.9 2
4	Fn.	WI	−0.033		−1.11	I	3.9 2½
5	Wy.	WI	−0.003		−0.84	I	3.4 2
10	An.	EI	+0.013		−1.61	I	3.9 3
13	Wy.	EI	+0.005		−0.77	I	3.4 2
14	Fn.	EI	+0.006		−0.70	I	3.4 2
15	An.	EI	+0.002		−1.27	I	3.4 2
16	Wy.	EI	+0.004		−0.94	I	--- 3
18	An.	EI	+0.067		−0.24	I	--- 3
19	Wy.	EI	+0.010		−0.15	I	3.9 2½
20	An.	EI	−0.005		−1.21	I	3.4 2
21	Hd.	EI	+0.027		−0.30	I	2.9 2
22	Wy.	EI	+0.035		−0.35	I	--- ---
23	An.	EI	−0.009		−0.98	I	3.4 2
25	Wy.	EI	−0.029		−0.49	I	3.9 3½
26	An.	EI	+0.031		−0.46	I	2.4 2½
28	Hd.	WI	−0.004		−0.58	I	3.4 2
29	Wy.	WI	+0.014		+0.28	I	3.7 2½
30	An.	WI	+0.039		−0.60	I	3.9 2½
1914			s	″	″		
Oct. 1	Hd.	WI	+0.035		−0.59	I	3.4 2
30	An.	EI	−0.004		−0.86	I	4.4 3
Nov. 4	Fn.	WI	+0.031		----	I	4.4 3
1915							
Mar. 28	*Fn.*	*EI*	-----	*−0.71*	*−0.72*	*0*	--- *3½*
30	*An.*	*EI*	*+0.029*	----	----	*0*	--- *3*
Apr. 7	*Hd.*	*EI*	*+0.004*	*−1.42*	*−1.42*	*0*	--- *3*
July 31	An.	EI	+0.011		−0.60	I	--- 3½
Sept. 3	Hd.	WI	−0.001		−1.12	I	3.9 2
7	Wy.	WI	+0.010		----	I	3.4 2½
8	Hd.	WI	+0.009		−1.22	I	3.4 2
9	Wy.	WI	+0.021		−1.25	I	3.9 2½
10	Hd.	WI	−0.001		−0.91	I	3.4 2
14	Wy.	EI	−0.002		−0.89	I	3.9 2
15	Hd.	EI	+0.008		−0.33	I	2.9 2
20	Hd.	EI	+0.002		−1.08	I	3.4 2½
22	Hd.	EI	+0.021		+0.15	I	3.4 2
23	Hd.	EI	+0.006		----	I	3.4 2
24	Wy.	EI	−0.004		−0.68	I	4.4 3
27	Hd.	EI	+0.031		−0.82	I	3.4 2
Oct. 8	Hd.	WI	+0.013		−0.62	I	3.4 3
21	Hd.	WI	+0.019		−0.70	I	3.4 3
Mean		1913.62	+0.011		−0.67		
		1913.66					
Corr			−0.081		−0.22		

Bradley 2675 [1]

			h m s	° ′ ″			
1912							
Sept. 19	R.	WII	20 37 23.975	+31 59 12.45		0	5.5 1
20	Hd.	WII	23.989		12.10	0	6.0 3
28	R.	EII	23.962		12.60	0	5.5 1
29	R.	EII	23.955		11.98	0	6.0 2
30	Hd.	EII	23.953		12.46	0	6.0 2
1914							
July 18	Hd.	EI	23.971		12.24	0	--- 3
20	Fn.	EI	23.975		12.19	0	5.5 2
Aug. 13	Hd.	WI	23.987		12.07	I	5.4 2
14	Wy.	WI	23.934		12.39	0	--- 2½
Mean		1913.56	20 37 23.967	+31 59 12.28			
Corr			−0.081		−0.25		

B. D. +38° 4187

			h m s	° ′ ″			
1916							
Aug. 21	Wy.	EI	20 37 -----	+38 45 40.77		0	7.0 2½
25	Fn.	WI	-----		41.33	0	6.5 2
Sept. 11	Hd.	WI	-----		41.05	0	6.5 2
19	Hd.	EI	-----		40.62	0	6.5 2
Mean		1916.68	20 37 -----	+38 45 40.94			
Corr			-----		−0.27		

Radcliffe 1845, 4976

			h m s	° ′ ″			
1911							
Aug. 22	R.	EII	20 38 8.82	+83 18 52.73		0	6.0 1½
Sept. 13	R.	WII	8.53		53.72	0	6.5 1
18	Fn.	WII	8.63		52.53	0	6.0 2
25	Fn.	EII	8.52		52.93	0	5.8 3½
1915							
Aug. 15	Wy.	EI	8.52		52.59	0	7.0 2½
17	An.	WI	8.79		52.24	0	7.0 3
21	Wy.	WI	8.71		52.80	0	6.5 3½
Sept. 13	Hd.	EI	8.80		52.63	0	6.0 2
Mean		1913.67	20 38 8.665	+83 18 52.77			
Corr			−0.081		−0.38		

Radcliffe 1845, 4976 s. p.

			h m s	° ′ ″			
1912							
Feb. 9	Hd.	EII	20 38 8.42	+83 18 52.36		0	6.0 5
13	Hd.	EII	8.30		51.93	0	7.0 3
28	R.	WII	8.64		52.05	0	7.0 2½
Mar. 2	R.	WII	8.46		52.38	0	--- 1

[1] Double; s. pr. component observed.

				h	m	s	°	′	″				
1915													
Nov. 16	Hd.	WI				8.43			51.77	0	6.5	3	
17	Fn.	WI				8.75			51.30	0	6.5	3½	
27	Wy.	EI				8.65			51.34	0	6.5	3	
29	Wy.	EI				8.78			51.31	0	7.0	3½	
Mean	1914.02			20	38	8.554	+83	18	51.80				
Corr						−0.081			+0.46				

α Cygni

				h	m	s	°	′	″				
				20	38	21.809	+44	57	29.91				
1912						s			″				
Aug. 12	Fn.	EII				+0.062			+0.21	II	1.3	2	
24	R.	WII				+0.019			+0.68	II	1.6	1	
Sept. 12	R.	WII				+0.001			+0.15	II	1.6	1	
27	Hd.	EII				−0.014			+0.07	I	---	--	
1914													
Aug. 7	Hd.	EI				−0.007			+0.03	II	1.6	2	
8	Wy.	EI				−0.030			−0.10	II	2.1	2½	
15	Fn.	WI				+0.048			+0.59	II	1.1	2	
17	Fn.	WI				+0.036			−0.11	II	1.1	2	
Oct. 17	Wy.	EI				−0.023			----	II	1.6	2½	
1915													
Sept. 7	Wy.	WI				−0.010			----	II	1.6	2	
23	Hd.	EI				−0.031			----	II	1.1	2	
1916													
Sept. 20	Wy.	EI				+0.027			+0.62	II	1.6	2	
25	Wy.	EI				+0.045			+0.51	II	2.1	2	
26	Hd.	EI				+0.048			−0.11	II	1.1	2	
Oct. 6	Wy.	WI				+0.043			−0.42	II	2.1	2	
9	Hd.	WI				+0.015			+0.46	II	1.1	3	
10	Fn.	WI				+0.038			−0.20	I	1.9	2	
12	Hd.	WI				+0.032			+0.37	II	1.1	2	
23	Wy.	WI				+0.004			+1.25	II	2.1	2½	
24	Hd.	WI				+0.018			−0.28	II	1.6	3	
26	Wy.	EI				−0.026			+0.56	II	2.1	2	
27	Hd.	EI				+0.071			+0.25	II	1.6	2	
31	Fn.	EI				−0.016			+0.32	I	2.4	2½	
Nov. 2	Hd.	EI				+0.023			+0.17	II	1.1	2	
3	Fn.	EI				−0.042			+0.18	I	1.9	2	
7	Wy.	EI				+0.019			+0.32	II	1.6	2½	
9	Wy.	EI				+0.003			+0.04	II	2.1	3	
16	*Wy.*	*WI*				*+0.029*	*+0.05*		*+0.05*	*II*	---	*2*	
Dec. 7	*Fn.*	*EI*				*+0.056*	*+0.14*		*+0.13*	*0*	---	*3*	
8	*Hd.*	*EI*				*−0.005*	*+0.03*		*+0.03*	*I*	---	*2*	
19	*Hd.*	*WI*				*+0.048*	*+0.51*		*+0.49*	*I*	---	*3*	
29	*Hd.*	*WI*				*+0.039*	*+0.18*		*+0.17*	*I*	---	*2½*	
1917													
Jan. 8	*Wy.*	*EI*				*+0.060*	*−0.41*		*−0.43*	*I*	---	*3½*	
11	*Wy.*	*EI*				*+0.065*	*−0.26*		*−0.28*	*0*	---	*3½*	
12	*Fn.*	*EI*				*+0.040*	----		----	*0*	---	*3½*	
Mar. 5	*Fn.*	*WI*				*+0.027*	*+1.00*		*+0.98*	*0*	---	*3½*	
22	*Hd.*	*WI*				-----	*+0.62*		*+0.62*	*0*	---	*3*	
Apr. 9	*Fn.*	*WI*				*+0.102*	*+1.79*		*+1.79*	*0*	---	*3*	
Aug. 23	Fn.	EII				+0.023			----	I	---	2	
25	Wy.	EII				+0.048			−0.05	II	2.1	3	
Sept. 4	Fn.	EII				+0.060			+0.42	I	---	3	
6	Wy.	EII				−0.033			----	I	---	3½	
11	Fn.	EII				−0.003			+0.12	II	2.1	2	
13	Hd.	EII				+0.012			+0.21	II	---	2	
17	Hd.	EII				+0.020			+0.20	II	2.1	2	
18	Wy.	EII				+0.041			+0.19	II	2.1	2	
20	Hd.	WII				+0.039			+0.83	II	2.1	3	
Oct. 2	Fn.	WII				+0.037			+0.65	II	1.6	2	
4	Hd.	WII				+0.002			+0.75	II	1.1	3	
11	Hd.	EII				+0.018			−0.10	II	1.6	2	
22	Hd.	EII				+0.049			+0.33	II	1.1	3	
26	Fn.	EII				+0.040			+0.01	I	---	3	
Nov. 20	*Fn.*	*WII*				*+0.025*	*+1.22*		*+1.21*	*I*	---	*2½*	
Dec. 20	*Hd.*	*EII*				*+0.065*	*−0.11*		*−0.13*	*I*	---	*3*	
26	*Hd.*	*EII*				*+0.054*	----		----	*I*	---	*3*	
1918													
Jan. 12	*Wy.*	*EII*				*+0.104*	----		----	*0*	---	--	
Feb. 3	*Hd.*	*WII*				*+0.087*	*+1.45*		*+1.40*	*I*	---	*3½*	
10	*Wy.*	*WII*				*−0.106*	*−0.56*		*−0.58*	*0*	---	*3*	
14	*Fn.*	*WII*				*+0.049*	*+0.10*		*+0.09*	*0*	---	*3½*	
17	*Fn.*	*EII*				*+0.061*	*−0.42*		*−0.39*	*0*	---	*3½*	

				s	″	″				
1918										
Feb. 20	*Fn.*	*EII*		*+0.107*	*+0.34*	*+0.30*	*0*	---	*3½*	
26	*Hd.*	*EII*		*+0.122*	*−0.26*	*−0.38*	*I*	---	*3½*	
Mar. 3	*Fn.*	*EII*		*+0.100*	----	----	*0*	---	*3½*	
7	*Wy.*	*EII*		*+0.040*	*−0.70*	*−0.70*	*0*	---	*3½*	
10	*Hd.*	*WII*		*+0.120*	*+0.69*	*+0.52*	*I*	---	*3½*	
17	*Wy.*	*WII*		*−0.067*	*+0.56*	*+0.56*	*0*	---	*3½*	
18	*Hd.*	*WII*		*+0.056*	*+1.03*	*+1.00*	*0*	---	*3½*	
25	*Wy.*	*WII*		*+0.101*	*+0.01*	*+0.01*	*0*	---	*3½*	
Apr. 1	*Fn.*	*EII*		*−0.019*	*+0.32*	*+0.33*	*0*	---	*3½*	
4	*Fn.*	*EII*		*−0.046*	*+0.34*	*+0.33*	*0*	---	*3*	
15	*Wy.*	*EII*		*+0.025*	*−0.45*	*−0.44*	*0*	---	*3½*	
21	*Fn.*	*EII*		-----	*−0.52*	*−0.52*	*0*	---	*3*	
May 1	*Fn.*	*EII*		*+0.019*	*−0.15*	*−0.15*	*0*	---	*3*	
Aug. 8	Wy.	WII		+0.036		+0.58	II	2.1	3	
Mean	1916.45			+0.018		+0.26				
	1916.47									
Corr				−0.081		−0.28				

δ Delphini

				h	m	s	°	′	″				
				20	39	15.434	+14	45	3.83				
1911													
July 15	R.	WII				+0.063			+0.83	0	---	--	
20	Fn.	EII				+0.020			−0.04	0	---	--	
22	R.	EII				+0.098			+0.22	I	2.9	2	
26	R.	WII				+0.002			+0.64	I	3.4	1	
1915													
June 28	Wy.	EI				+0.033			+1.02	I	4.4	2	
July 6	Fn.	WI				−0.005			+0.99	0	4.5	2½	
8	Hd.	WI				+0.045			+0.40	I	4.4	2	
20	Hd.	EI				+0.025			+0.67	I	4.9	3	
Mean	1913.54					+0.035			+0.59				
Corr						−0.081			−0.22				

Radcliffe 1845, 4956

				h	m	s	°	′	″				
1911													
July 24	Fn.	EII		20	39	34.30	+79	6	42.04	0	---	--	
25	Hd.	EII				34.32			42.27	0	7.0	2	
27	Fn.	WII				34.11			42.62	0	6.7	2	
31	Fn.	WII				34.29			42.36	0	---	2	
1915													
June 22	Wy.	EI				34.31			43.48	0	7.5	3	
24	Fn.	EI				34.38			43.07	0	7.0	2	
July 9	Fn.	WI				34.13			42.78	0	7.0	3	
13	Fn.	WI				33.97			42.29	0	7.0	3	
Mean	1913.53			20	39	34.226	+79	6	42.61				
Corr						−0.081			−0.37				

Radcliffe 1845, 4956 S. P.

				h	m	s	°	′	″				
1913													
Jan. 14	R.	WII		20	39	34.09	+79	6	42.15	0	7.5	1	
21	R.	EII				34.42			41.81	0	7.0	2	
Feb. 13	R.	WII				34.22			41.21	0	---	3	
18	Hd.	EII				34.33			42.29	0	7.5	3	
Dec. 30	Fn.	WI				34.12			41.98	0	---	3	
1914													
Jan. 5	Hd.	EI				34.43			41.75	0	7.5	3	
15	Hd.	EI				34.28			41.40	0	7.5	4	
31	Fn.	WI				34.24			41.84	0	7.0	3½	
Mean	1913.56			20	39	34.266	+79	6	41.80				
Corr						−0.081			+0.49				

Weisse$_2$ XX 1294

				h	m	s	°	′	″				
1912													
July 26	R.	WII		20	40	44.012	+20	9	49.66	0	7.5	2½	
27	Fn.	WII				44.005			50.08	0	6.6	2½	
Aug. 3	R.	EII				44.013			50.43	0	7.5	2	
5	Fn.	EII				44.025			50.43	0	7.0	2	

				h m s	° ′ ″			
1914								
July	28	Hd.	EI	44.023		50.14	0	7.0 2
	31	Fn.	EI	44.024		50.54	0	6.5 2
Aug.	13	Hd.	WI	44.045		51.26	0	7.5 2
	14	Wy.	WI	44.019		50.62	0	7.0 2½
Mean	1913.59			20 40 44.021	+20	9 50.40		
Corr				−0.081		−0.23		

ψ Capricorni

h m s	° ′ ″
20 40 46.138	−25 35 41.34

1911								
July	12	R.	WII	+0.024		−1.30	0	... ...
	14	Hd.	WII	+0.039		−0.77	0	... ...
	18	Hd.	EII	+0.040		−1.00	I	3.4 4
	19	R.	EII	+0.057		−1.33	0	... 3½
1915								
July	23	Hd.	EI	+0.050		−0.27	0	5.5 3
	24	An.	EI	+0.053		−0.20	I	5.4 3½
Aug.	18	Wy.	WI	+0.066		−2.14	0	... 3½
	25	Wy.	WI	+0.076		−1.57	0	... 3
Mean	1913.57			+0.051		−1.07		
Corr				−0.081		−0.02		

γ Delphini *seq.*

h m s	° ′ ″
20 42 28.956	+15 47 57.42

1912								
Aug.	7	Fn.	EII	−0.032		−0.14	I	3.9 2½
	9	R.	EII	+0.009		−0.02	I	4.4 1½
	23	Fn.	WII	+0.057		−0.36	0	... 2
	27	R.	WII	+0.022		−0.27	I	... 2½
1914								
July	18	Hd.	EI	+0.050		−0.01	0	... 3
	22	Fn.	EI	+0.040		+0.51	I	4.4 2½
Aug.	15	Fn.	WI	+0.056		+0.73	I	4.4 2
	17	Fn.	WI	+0.023		+0.07	I	3.9 2
Mean	1913.61			+0.028		+0.06		
Corr				−0.081		−0.22		

ε Cygni

h m s	° ′ ″
20 42 34.326	+33 37 59.44

				s	″	″		
1911								
Sept.	6	R.	WII	+0.043		----	II	1.6 1
	7	Fn.	WII	+0.047		----	I	2.3 2½
	11	Fn.	WII	−0.020		----	I	2.2 1½
	12	Hd.	WII	−0.007		----	I	2.9 3
	20	R.	WII	+0.030		+0.04	II	1.1 1½
	23	R.	WII	−0.037		−0.09	II	1.6 1
	26	Hd.	EII	−0.014		----	I	2.4 3
	28	Fn.	EII	−0.027		+0.39	I	2.2 1½
	29	Hd.	EII	−0.058		−0.43	I	2.4 3½
	30	R.	EII	+0.010		−0.20	II	1.6 1½
Oct.	5	R.	EII	−0.042		−0.32	I	... 2
	6	Fn.	EII	−0.024		−0.31	I	2.3 2
	11	Hd.	WII	−0.004		−0.10	I	2.4 2
	25	R.	WII	−0.025		+0.44	II	1.6 1
	26	R.	WII	−0.024		+0.02	I	... 1½
	30	R.	EII	−0.032		−0.48	II	2.6 1½
Nov.	2	R.	EII	−0.030		----	II	2.6 1½
	3	R.	EII	−0.019		----	II	2.1 1
1912								
Mar.	*31*	*Fn.*	*WII*	-----	*−0.66*	*−0.66*	*0*	... ...
Apr.	*7*	*Fn.*	*WII*	*+0.051*	----	----	*0*	... 3½
	18	*Hd.*	*EII*	*+0.013*	----	----	*0*	... *3*
	24	*Fn.*	*EII*	*+0.019*	*−0.42*	*−0.46*	*0*	... 2½
	26	*R.*	*EII*	*−0.043*	*−0.40*	*−0.40*	*0*	... ...
Aug.	1	R.	WII	+0.014		+0.40	I	... 1
	15	R.	WII	−0.009		−0.55	I	... 2½
	29	R.	WII	−0.052		−0.11	II	2.1 1½
Sept.	6	Hd.	EII	−0.009		−0.09	I	2.4 2
	9	Hd.	EII	−0.027		----	II	2.6 2
	21	R.	WII	+0.007		----	0	... 1
Oct.	28	Fn.	EII	−0.055		−0.08	I	2.0 1½

				s	″	″		
1913								
Feb.	*27*	*Fn.*	*EII*	*+0.067*	*−0.04*	*−0.04*	*0*	... *3*
Mar.	*2*	*Fn.*	*EII*	*+0.092*	*−0.12*	*−0.12*	*0*	... 3½
	4	*Fn.*	*EII*	*+0.025*	*−0.68*	*−0.68*	*0*	... 3½
	6	*Fn.*	*EII*	*+0.045*	*−0.73*	*−0.72*	*0*	... 3½
	11	*Fn.*	*EII*	*−0.030*	*+0.17*	*+0.18*	*0*	... 3½
	16	*Fn.*	*WII*	*+0.008*	*−0.89*	*−0.90*	*0*	... 3½
	17	*Hd.*	*WII*	*−0.039*	*−0.26*	*−0.26*	*0*	... *3*
	18	*Fn.*	*WII*	-----	*−0.08*	*−0.08*	*0*	... *4*
	28	*Hd.*	*EII*	*+0.019*	*−0.18*	*−0.17*	*0*	... *3*
	31	*Hd.*	*EII*	*−0.009*	*−0.24*	*−0.24*	*0*	... *3*
Apr.	*1*	*Fn.*	*EII*	*−0.097*	*+0.44*	*+0.44*	*0*	... *3*
	7	*Hd.*	*WII*	*−0.011*	*−0.24*	*−0.24*	*0*	... *3*
1914								
Mar.	*9*	*Wy.*	*WI*	*+0.009*	*−1.31*	*−1.30*	*0*	... *3*
	11	*Fn.*	*WI*	*−0.017*	*+0.04*	*+0.05*	*0*	... *3*
	12	*Wy.*	*WI*	*+0.011*	*−0.25*	*−0.25*	*0*	... *3*
	13	*Hd.*	*WI*	*+0.049*	*+0.04*	*+0.04*	*0*	... *3*
	20	*Hd.*	*EI*	*−0.020*	*−0.16*	*−0.14*	*0*	... *3*
	22	*Fn.*	*EI*	*+0.005*	*−0.44*	*−0.43*	*0*	... *4*
	23	*Wy.*	*EI*	*−0.029*	*−0.12*	*−0.12*	*0*	... 2½
	30	*Wy.*	*WI*	-----	*+0.05*	*+0.06*	*0*	... *3*
Apr.	*2*	*Wy.*	*WI*	*−0.019*	*−0.51*	*−0.51*	*0*	... *3*
	3	*Fn.*	*WI*	*+0.003*	*−0.14*	*−0.13*	*0*	... *3*
	6	*Wy.*	*WI*	-----	*−0.28*	*−0.29*	*0*	... *3*
	9	*Wy.*	*WI*	*−0.054*	*+0.11*	*+0.09*	*0*	... *3*
	13	*Wy.*	*EI*	-----	*+0.05*	*+0.04*	*0*	... *3*
Sept.	8	Wy.	EI	+0.008		----	I	2.9 2
	15	An.	EI	+0.012		+0.09	II	3.6 1½
	16	Wy.	EI	−0.037		+0.17	I	... ...
	18	An.	EI	−0.034		----	I	... 1½
	19	Wy.	EI	−0.022		+0.40	I	3.9 3
	25	Wy.	EI	−0.055		+0.09	I	2.9 3
	26	An.	EI	−0.016		+0.20	II	2.6 2
	29	Wy.	WI	−0.010		----	II	2.6 2½
Oct.	2	Wy.	WI	−0.014		----	II	2.6 2
	9	Hd.	WI	+0.004		−0.32	I	2.9 2
	10	An.	WI	−0.031		+0.34	II	3.1 2
	12	Hd.	WI	−0.029		+0.14	II	2.9 2
	17	Wy.	EI	−0.029		+0.02	I	3.4 2½
	20	Hd.	EI	+0.001		−0.02	II	2.6 2
	30	An.	EI	−0.007		----	I	3.9 2½
	31	Fn.	EI	-----		−0.15	I	2.9 3
Nov.	4	Fn.	WI	+0.023		----	I	2.9 2½
	5	Wy.	WI	+0.001		----	I	2.9 3
1915								
Mar.	*29*	*Wy.*	*EI*	*+0.014*	*+0.19*	*+0.20*	*0*	... *4*
	30	*An.*	*EI*	*+0.030*	----	----	*0*	... *3*
	31	*Fn.*	*EI*	*−0.010*	*+0.49*	*+0.49*	*0*	... 3½
Apr.	*6*	*An.*	*EI*	*−0.027*	*−0.72*	*−0.73*	*0*	... *3*
	7	*Hd.*	*EI*	*−0.009*	*−0.25*	*−0.25*	*0*	... *3*
	13	*An.*	*WI*	*−0.090*	*−0.29*	*−0.29*	*I*	... *3*
July	22	Fn.	EI	−0.012		+0.15	I	... 2
	31	An.	EI	−0.008		+0.36	II	3.6 3
Aug.	16	Fn.	EI	−0.022		----	0	... 2
	26	Hd.	WI	+0.001		----	0	... 2
Sept.	1	Hd.	WI	−0.012		----	II	... 2
	3	Hd.	WI	−0.019		----	II	2.6 2
	7	Wy.	WI	−0.041		+0.71	II	2.6 2
	8	Hd.	WI	−0.028		−0.38	II	2.6 2
	9	Wy.	WI	−0.018		−0.08	II	2.6 2½
	10	Hd.	WI	−0.005		−0.35	II	2.6 2
	14	Wy.	EI	+0.037		----	II	2.6 2
	15	Hd.	EI	−0.044		+0.81	II	1.6 2
	16	Wy.	EI	−0.030		−0.39	II	2.1 2
	20	Hd.	EI	−0.006		+0.20	I	... 2
	22	Hd.	EI	−0.024		+0.13	II	2.6 2
	23	Hd.	EI	−0.015		----	II	2.6 2
	24	Wy.	EI	−0.026		−0.15	II	2.6 3
	27	Hd.	EI	−0.016		−0.09	II	2.6 2
	28	Fn.	EI	−0.041		+0.30	I	... 2
Oct.	8	Hd.	WI	−0.026		+0.02	I	... 4
	21	Hd.	WI	−0.004		−0.46	I	2.4 3
1916								
Feb.	*3*	*Wy.*	*EI*	-----	*−0.20*	*−0.15*	*0*	... 3½
	6	*Wy.*	*EI*	*+0.047*	*−0.13*	*−0.13*	*0*	... *4*
	20	*Fn.*	*WI*	*−0.037*	*−0.52*	*−0.50*	*0*	... 3½
	27	*Fn.*	*WI*	*−0.023*	*−1.21*	*−1.19*	*0*	... *4*
	29	*Wy.*	*WI*	-----	*+0.44*	*+0.46*	*0*	... 3½

				″	″			
1916								
Mar. 3	*Wy.*	*WI*	*−0.052*	*−0.52*	*−0.49*	*0*	---	*3½*
10	*Wy.*	*WI*	*−0.069*	*−0.10*	*−0.09*	*0*	---	*3½*
Aug. 21	Wy.	EI	−0.039		----	I	2.9	2½
24	Wy.	WI	+0.015		----	I	---	2½
Sept. 11	Hd.	WI	−0.005		----	II	2.6	2
19	Hd.	EI	−0.042		----	II	2.6	2
20	Wy.	EI	−0.020		−0.18	II	2.6	2
25	Wy.	EI	−0.030		−0.09	II	2.6	2
26	Hd.	EI	−0.021		+0.12	II	1.6	2
Oct. 6	Wy.	WI	+0.006		----	II	2.6	2
9	Hd.	WI	−0.005		−0.12	II	2.6	3
12	Hd.	WI	−0.017		−0.20	II	2.6	2
17	Fn.	WI	−0.071		−1.07	I	2.9	2½
24	Hd.	WI	−0.014		−0.92	II	2.6	2½
26	Wy.	EI	−0.034		−0.07	II	2.6	2
27	Hd.	EI	−0.023		----	II	2.6	2
31	Fn.	EI	−0.028		----	I	2.9	2½
Nov. 2	Hd.	EI	−0.037		+0.03	II	2.6	2
3	Fn.	EI	−0.001		+0.16	I	1.9	2
7	Wy.	EI	−0.037		+0.10	I	2.9	2½
9	Wy.	EI	−0.028		−0.15	I	3.4	3½
10	Fn.	EI	+0.020		−0.02	I	2.4	2½
16	*Wy.*	*WI*	*−0.031*	*−0.79*	*−0.80*	*I*	---	*2*
27	*Wy.*	*WI*	*−0.006*	*+0.10*	*+0.11*	*I*	---	*2½*
Dec. 8	*Hd.*	*EI*	*−0.017*	*−0.49*	*−0.49*	*I*	---	*2*
19	*Hd.*	*WI*	*+0.039*	*+0.11*	*+0.13*	*0*	---	*3*
29	*Hd.*	*WI*	*−0.020*	*−0.41*	*−0.40*	*0*	---	*2½*
1917								
Jan. 8	*Wy.*	*EI*	*−0.014*	*−0.40*	*−0.39*	*0*	---	*3½*
12	*Fn.*	*EI*	*+0.040*	*−0.12*	*−0.07*	*0*	---	*3½*
Mar. 22	*Hd.*	*WI*	-----	*−0.58*	*−0.58*	*0*	---	*3*
Apr. 9	*Fn.*	*WI*	*+0.034*	*−0.59*	*−0.59*	*0*	---	*3*
Aug. 23	Fn.	EII	−0.013		----	I	2.9	2
Sept. 6	Wy.	EII	−0.071		----	I	---	3½
11	Fn.	EII	−0.014		−0.67	I	2.4	2
13	Hd.	EII	+0.002		−0.34	II	3.1	3
17	Hd.	EII	−0.006		−0.05	II	2.6	3
18	Wy.	EII	−0.008		−0.91	I	2.9	2
20	Hd.	WII	−0.024		−0.25	I	2.9	3
Oct. 2	Fn.	WII	−0.022		−0.11	I	2.9	2
4	Hd.	WII	−0.027		−0.08	II	2.6	2
11	Hd.	EII	−0.004		−0.52	II	3.1	3
15	Fn.	EII	+0.001		−1.13	I	2.9	2½
22	Hd.	EII	+0.004		−0.48	II	2.6	3
Nov. 20	*Fn.*	*WII*	*−0.050*	*−0.10*	*−0.09*	*I*	---	*2*
Dec. 20	*Hd.*	*EII*	*+0.033*	*−0.29*	*−0.28*	*0*	---	*3*
26	*Hd.*	*EII*	*+0.008*	----	----	*0*	---	*3*
1918								
Jan. 12	*Wy.*	*EII*	*+0.012*	----	----	*0*	---	--
Feb. 3	*Hd.*	*WII*	*+0.030*	*+0.16*	*+0.20*	*0*	---	*3*
10	*Wy.*	*WII*	*−0.047*	----	----	*0*	---	*3*
17	*Fn.*	*EII*	*+0.030*	*−1.30*	*−1.32*	*0*	---	*3½*
26	*Hd.*	*EII*	*+0.049*	*−1.50*	*−1.48*	*0*	---	*3½*
Mar. 7	*Wy.*	*EII*	*−0.037*	*−0.51*	*−0.51*	*0*	---	*3½*
10	*Hd.*	*WII*	*+0.038*	*−0.52*	*−0.39*	*0*	---	*3½*
17	*Wy.*	*WII*	-----	*−0.03*	*−0.03*	*0*	---	*3½*
18	*Hd.*	*WII*	*−0.013*	*+0.19*	*+0.21*	*0*	---	*4*
25	*Wy.*	*WII*	*+0.055*	*−0.93*	*−0.93*	*0*	---	*3½*
Apr. 4	*Fn.*	*EII*	*−0.021*	*−0.68*	*−0.67*	*0*	---	*3*
15	*Wy.*	*EII*	*+0.013*	*−0.73*	*−0.74*	*0*	---	*3½*
21	*Fn.*	*EII*	-----	*−1.11*	*−1.11*	*0*	---	*3*
May 1	*Fn.*	*EII*	*−0.009*	*+0.15*	*+0.15*	*0*	---	*3*
Aug. 8	Wy.	WII	+0.016		+0.42	I	3.4	2½
Mean------	1915.08		−0.016		−0.09			
	1915.23							
Corr----------			−0.081		−0.26			

ε Aquarii

h m s 20 42 48.314 ° ′ ″ −9 49 32.66

				″			
1911							
Aug. 1	Hd.	WII	+0.056		−0.14	I	4.4 3
6	R.	WII	+0.026		−0.18	I	3.4 1
8	R.	EII	+0.087		−0.03	0	--- 2½
9	Fn.	EII	+0.050		−0.18	I	3.6 2½

			s	″			
1915							
Aug. 13	An.	EI	+0.062		+0.48	I	4.9 3½
14	Wy.	EI	+0.075		−0.02	I	4.4 3
17	An.	WI	+0.104		−0.65	0	--- 3
19	Fn.	WI	+0.042		+0.71	I	4.4 2½
Mean------	1913.61		+0.063		0.00		
Corr----------			−0.081		−0.14		

6 H. Cephei

h m s 1912 Sept. 14 R. WII 20 43 7.119 ° ′ ″ +57 15 23.01

Sept. 17	R.	WII	7.110		23.35	I	4.4 1
27	Hd.	EII	7.080		23.04	0	--- --
29	R.	EII	7.077		22.79	I	4.9 2½
1914							
Aug. 3	Fn.	EI	7.097		22.05	0	--- 2
6	Fn.	EI	7.136		22.16	0	5.0 2
20	Fn.	WI	7.061		22.55	0	5.0 2
22	An.	WI	7.105		22.78	I	4.4 2
31	Fn.	WI	7.059		23.43	0	4.5 2
Mean------	1913.78		20 43 7.094		+57 15 22.80		
Corr----------			−0.081		−0.31		

Bradley 2688

h m s 1912 Sept. 20 Hd. WII 20 43 20.934 ° ′ ″ +5 40 38.62

Sept. 28	R.	EII	20.932		38.21	0	5.5 1
30	Hd.	EII	20.926		38.58	0	5.5 2
Oct. 9	Hd.	WII	20.891		37.87	0	6.0 1
1914							
Aug. 7	Hd.	EI	20.922		37.68	0	6.0 2
14	Wy.	WI	20.923		36.86	0	6.5 2½
18	Wy.	WI	20.896		36.83	0	6.0 2½
Sept. 9	Fn.	EI	20.862		37.09	0	6.0 2½
Mean------	1913.69		20 43 20.911		+5 40 37.72		
Corr----------			−0.081		−0.19		

η Cephei

h m s 20 43 27.700 ° ′ ″ +61 29 23.40

1911							
Nov. 7	Fn.	EII	−0.01		−0.82	I	3.4 3
10	Fn.	EII	+0.05		+0.58	I	3.1 2½
1912							
Oct. 1	Hd.	EII	0.00		−0.10	I	2.9 2
2	R.	EII	+0.04		+1.21	I	2.9 2
8	Hd.	WII	−0.03		−0.29	I	2.9 2
11	Hd.	WII	+0.01		+0.13	I	--- 3
1913							
Aug. 7	R.–Fn.	WII	----		−0.11	I	--- 1½ R.
7	R.–Fn.	WII	----		+0.46	I	2.9 1
11	R.–Fn.	WII	----		−0.64	I	--- 2 R.
11	R.–Fn.	WII	----		+0.32	I	2.9 2
14	R.–Fn.	WII	----		−0.19	I	--- 3 R.
14	R.–Fn.	WII	----		−0.03	I	2.9 1½
15	Fn.–R.	WII	----		−0.23	I	--- 2 R.
15	Fn.–R.	WII	----		+0.07	I	--- 2
16	Fn.–R.	WII	----		+0.18	I	--- 2½ R.
16	Fn.–R.	WII	----		−0.25	I	2.9 2½
20	R.–Fn.	EII	----		−0.28	I	--- 2 R.
20	R.–Fn.	EII	----		−0.38	II	2.6 2
25	R.–Fn.	EII	----		+0.52	I	--- 2 R.
25	R.–Fn.	EII	----		−0.86	II	3.1 2
30	Fn.–R.	EII	----		−0.32	0	--- -- R.
30	Fn.–R.	EII	----		+0.71	0	--- --
31	Fn.–R.	EII	----		+0.09	I	--- 2½ R.
31	Fn.–R.	EII	----		+0.14	I	3.4 2½
Sept. 2	Fn.–R.	EII	----		−0.44	I	--- 2½ R.
2	Fn.–R.	EII	----		+1.07	I	3.4 2
4	Fn.–R.	EII	----		+0.30	I	--- 2 R.
4	Fn.–R.	EII	----		+0.21	I	3.4 2

				s	″			
1914								
Sept. 1	An.	WI		+0.06	+0.51	II	2.6	1½
4	Fn.	WI		+0.07	−0.25	I	3.4	2
5	Wy.	WI		0.00	+0.11	II	3.6	2½
10	An.	EI		−0.05	+0.71	I	---	2½
13	Wy.	EI		+0.09	+0.36	I	3.4	2
14	Fn.	EI		+0.07	−0.04	I	3.4	2
Mean		1913.57		+0.025	+0.16			
		1913.60						
Corr				−0.081	−0.32			

η Cephei s. p.

				h m	s	°	′	″			
				20 43	-----	+61	29	23.57			
1911											
Nov. 10	Fn.	EII			-----			0.0	0	---	--
1912											
Oct. 28	Hd.	EII			-----			+0.3	0	---	4
1913											
Dec. 8	Hd.	EI			-----			+0.1	0	---	5
18	Hd.	WI			-----			−1.4	0	---	5
19	Fn.	WI			-----			−2.0	0	---	4
20	R.	WI			-----			−1.6	0	---	--
26	Fn.	WI			-----			−0.5	0	---	4½
29	Hd.	WI			-----			−2.4	0	---	4
1914											
Jan. 9	R.	EI			-----			−3.0	0	---	--
Mar. 13	Wy.	WI			-----			−2.7	0	---	3½
14	Hd.	WI			-----			−1.2	0	---	5
26	Fn.	EI			-----			−1.3	0	---	4
Apr. 13	Fn.	EI			-----			+0.5	0	---	3½
Mean		1913.80			-----			−1.17			
Corr					-----			+0.90			

Groombridge 3285

				h m	s	°	′	″			
1912											
Oct. 5	Hd.	EII		20 43	44.599	+52	40	2.48	0	6.0	2
10	Hd.	WII			44.647			2.75	0	6.5	2½
15	Hd.	WII			44.583			2.83	0	6.0	3
26	Fn.	EII			44.546			2.30	0	---	--
1914											
Sept. 22	Wy.	EI			44.589			2.07	0	6.5	2½
23	An.	EI			44.651			1.51	0	6.5	2½
30	An.	WI			44.614			2.90	0	6.5	2
Oct. 1	Hd.	WI			44.597			2.39	0	6.0	2½
Mean		1913.76		20 43	44.603	+52	40	2.40			
Corr					−0.081			−0.30			

λ Cygni [1]

				h m	s	°	′	″			
1911											
Aug. 7	Fn.	WII		20 43	54.158	+36	9	34.20	0	4.9	2
10	R.	EII			54.103			34.05	I	4.4	1
15	R.	EII			54.143			34.07	I	3.9	1
Sept. 1	Fn.	WII			54.128			33.61	0	---	--
1915											
Aug. 15	Wy.	EI			54.232			33.41	0	---	2½
21	Wy.	WI			54.177			34.62	I	4.9	3½
23	Wy.	WI			------			34.70	I	4.9	2
25	Wy.	WI			54.140			34.67	0	---	2½
Sept. 13	Hd.	EI			54.197			34.13	I	4.4	2
Mean		1913.64		20 43	54.160	+36	9	34.16			
		1913.86									
Corr					−0.081			−0.26			

Piazzi XX 305

				h m	s	°	′	″			
1912											
Oct. 3	Hd.	EII		20 43	57.200	−26	6	50.51	0	---	3
4	Hd.	EII			57.156			51.01	0	6.0	3
16	Fn.	WII			57.245			51.25	0	6.4	2½
18	Fn.	WII			57.164			50.88	0	---	3½
1914											
Sept. 20	An.	EI			57.211			50.40	0	6.5	3
21	Hd.	EI			57.253			49.65	0	6.0	2½
28	Hd.	WI			57.197			50.03	0	6.2	2½
29	Wy.	WI			57.200			49.29	0	---	3½
Mean		1913.75		20 43	57.203	−26	6	50.38			
Corr					−0.081			−0.02			

Weisse$_2$ XX 1376

				h m	s	°	′	″			
1911											
Aug. 18	Fn.	EII		20 44	2.459	+27	15	49.51	0	7.0	--
21	Fn.	EII			2.485			49.15	0	7.2	2
Sept. 11	Fn.	WII			2.500			49.02	0	7.0	1½
12	Hd.	WII			2.529			49.92	0	7.0	3
1915											
June 22	Wy.	EI			2.483			50.23	0	7.5	2½
28	Wy.	EI			2.482			49.89	0	7.0	2
July 14	An.	WI			2.488			49.53	0	7.5	2½
17	An.	WI			2.465			49.79	0	7.0	2½
Mean		1913.59		20 44	2.486	+27	15	49.63			
Corr					−0.081			−0.24			

B. D.+38° 4235

				h m	s	°	′	″			
1916											
Aug. 21	Wy.	EI		20 44	-----	+38	57	18.65	0	7.5	2½
Sept. 11	Hd.	WI			-----			19.56	0	7.0	2
19	Hd.	EI			-----			19.05	0	7.0	2
Oct. 6	Wy.	WI			-----			18.97	0	7.5	2
Mean		1916.70		20 44	-----	+38	57	19.06			
Corr					-----			−0.27			

Weisse$_1$ XX 1069

				h m	s	°	′	″			
1912											
Aug. 31	R.	WII		20 44	39.646	−	0	53 47.33	0	---	2
Sept. 9	Hd.	EII			39.635			46.88	0	6.0	2
10	R.	EII			39.655			47.18	0	6.0	1½
12	R.	WII			39.647			47.62	0	6.0	2
1914											
Sept. 9	Fn.	EI			39.614			47.37	0	6.0	2½
16	Wy.	EI			39.654			46.96	0	---	3
19	Wy.	EI			39.639			47.11	0	7.0	2½
Oct. 2	Wy.	WI			39.639			47.60	0	6.5	2½
5	Wy.	WI			39.647			47.53	0	6.2	2½
Mean		1913.82		20 44	39.642	−	0	53 47.29			
Corr					−0.081			−0.18			

Lalande 40191

				h m	s	°	′	″			
1911											
July 12	R.	WII		20 45	42.329	−21	38	47.28	0	---	--
14	Hd.	WII			42.359			49.09	0	---	--
19	R.	EII			42.313			47.25	0	---	2
20	Fn.	EII			42.343			46.27	0	---	--
1915											
Sept. 1	Hd.	WI			42.388			47.10	0	---	3
3	Hd.	WI			42.388			47.96	0	---	2
14	Wy.	EI			42.362			47.23	0	7.0	3
15	Hd.	EI			42.362			47.02	0	7.0	3
Mean		1913.61		20 45	42.356	−21	38	47.40			
Corr					−0.081			−0.06			

Piazzi XX 325

				h m	s	°	′	″			
1912											
July 25	Fn.	WII		20 45	44.224	−12	52	43.94	0	---	3½
27	Fn.	WII			44.300			44.65	0	---	--
Aug. 3	R.	EII			44.309			44.02	0	7.0	3
5	Fn.	EII			44.316			43.46	0	---	2

[1] Double; mean observed.

1914			h m s	° ′ ″			
July 28 Hd.	EI		44.301		44.66	0	6.5 3
31 Fn.	EI		44.299		44.24	0	6.0 2½
Aug. 13 Hd.	WI		44.275		43.98	0	6.0 3
15 Fn.	WI		44.286		43.53	0	6.0 3
Mean------	1913.59		20 45 44.289	−12 52	44.06		
Corr------			−0.081		−0.12		

Bradley 2702

1912			h m s	° ′ ″			
Aug. 12 Fn.	EII		20 46 53.107	+43 43	12.17	0	5.5 1½
15 R.	WII		53.137		12.24	0	--- 3
24 R.	WII		53.134		11.98	0	5.5 1
Sept. 6 Hd.	EII		53.124		11.91	0	5.5 2
1914							
Sept. 2 Wy.	WI		53.158		13.12	0	--- 3
4 Fn.	WI		53.182		12.40	0	5.5 2
8 Wy.	EI		53.152		12.85	0	5.5 2
13 Wy.	EI		53.199		12.56	I	4.9 2
Mean------	1913.66		20 46 53.149	+43 43	12.40		
Corr------			−0.081		−0.28		

Fedorenko 3606

1911			h m s	° ′ ″			
July 25 Hd.	EII		20 47 42.72	+63 42	22.31	0	6.5 2
27 Fn.	WII		42.65		22.45	0	6.3 2
31 Fn.	WII		42.68		23.06	0	6.5 2
Aug. 8 R.	EII		42.73		23.02	0	6.5 3
1915							
July 24 An.	EI		42.70		22.60	0	6.0 2
31 An.	EI		42.77		22.91	0	7.0 3½
Aug. 17 An.	WI		42.74		22.34	0	7.0 3
18 Wy.	WI		42.64		23.33	0	7.0 3
Mean------	1913.59		20 47 42.704	+63 42	22.75		
Corr------			−0.081		−0.33		

μ Aquarii

			h m s	° ′ ″			
			20 47 48.050	−9 19	17.93		
1911							
July 15 R.	WII		+0.087		+0.75	0	--- --
22 R.	EII		+0.051		+0.53	0	5.5 4
24 Fn.	EII		+0.075		+0.19	0	--- 4
26 R.	WII		+0.024		+0.82	0	4.0 2½
1915							
June 22 Wy.	EI		+0.043		+0.78	I	4.9 3
24 Fn.	EI		+0.056		+0.47	0	5.5 2½
July 9 Fn.	WI		+0.074		−0.04	0	5.0 2½
13 Fn.	WI		+0.058		−0.48	0	5.5 3½
Mean------	1913.53		+0.058		+0.38		
Corr------			−0.081		−0.15		

76 Draconis

			h m s	° ′ ″				
			20 49 9.601	+82 11	55.48			
1911			s	″	″			
Nov. 2 R.	EII		----		−0.89	0	--- 3	R.
2 R.	EII		−0.01		+0.35	0	5.5 3	
3 R.	EII		----		+0.58	0	--- 1	R.
3 R.	EII		−0.06		+1.24	0	6.0 1	
10 Fn.	EII		----		+0.20	0	--- 2½	R.
10 Fn.	EII		−0.17		+0.56	0	--- 2½	
13 Hd.	EII		+0.26		−0.39	0	--- 2	
16 Hd.	EII		----		+0.87	0	--- 2	R.
16 Hd.	EII		+0.18		+0.42	0	5.5 2	
18 Hd.	EII		+0.07		+0.79	0	--- 3½	
21 R.	*EII*		*−0.12*	*+0.38*	*+0.36*	*0*	*--- 2*	
22 R.	*EII*		----	*+0.64*	*+0.64*	*0*	*--- 1*	*R.*
22 R.	*EII*		*+0.16*	*+0.99*	*+0.99*	*0*	*--- 1*	
Dec. 1 Hd.	*WII*		*−0.17*	*−0.07*	*−0.19*	*0*	*--- 3*	

1912			s	″			
Oct. 29 Hd.	EII		----	+0.90	0	--- 3	R.
29 Hd.	EII		+0.12	+0.37	0	--- 3	
30 Hd.	EII		----	+0.38	0	--- 3	R.
30 Hd.	EII		+0.09	+1.06	0	--- 3	
Nov. 3 Hd.	WII		----	+1.29	0	--- 2½	R.
3 Hd.	WII		+0.05	−0.48	0	--- 2½	
5 Hd.	WII		----	+0.68	0	--- 3	R.
5 Hd.	WII		+0.03	−0.15	0	--- 3	
8 Hd.	WII		----	+0.78	0	--- 4	R.
11 Fn.	EII		----	+0.58	0	--- 3	R.
11 Fn.	EII		−0.59	+1.54	0	--- 3	
12 Fn.	EII		----	+1.02	0	--- 3½	R.
12 Fn.	EII		−0.21	+1.12	0	--- 3½	
15 Fn.	EII		+0.23	+0.99	0	--- 2½	
1913							
Nov. 3 Fn.	EI		----	+0.12	0	--- 3½	R.
3 Fn.	EI		+0.03	+0.41	0	6.0 3	
4 R.	EI		−0.06	+0.62	0	5.5 3	
5 Hd.	EI		----	−0.09	0	--- 3	R.
5 Hd.	EI		+0.24	+0.78	0	5.5 3	
6 Fn.	EI		----	+0.17	0	--- 2½	R.
6 Fn.	EI		−0.29	+1.24	0	6.0 2½	
7 R.	EI		----	+1.12	0	--- 3	R.
7 R.	EI		−0.10	+0.24	0	5.5 3	
11 R.	WI		----	+0.26	0	--- 3	R.
11 R.	WI		−0.05	+0.20	0	--- 3	
12 Hd.	WI		−0.11	−0.09	0	5.8 3	
17 Fn.	WI		----	+0.15	0	--- 2	R.
17 Fn.	WI		+0.12	−0.55	0	6.5 2	
1914							
Oct. 28 Fn.	EI		+0.20	----	0	6.0 2½	
30 An.	EI		−0.02	−0.12	0	--- 3½	
31 Fn.	EI		----	+0.30	0	--- 2½	R.
31 Fn.	EI		−0.10	+0.30	0	5.5 2½	
Nov. 2 Wy.	WI		----	+1.60	0	--- 3½	R.
2 Wy.	WI		----	+0.25	0	--- 3½	
3 Hd.	WI		----	+0.66	0	--- 3	R.
3 Hd.	WI		−0.20	+0.61	0	6.0 3	
4 Fn.	WI		----	−0.35	0	--- --	R.
4 Fn.	WI		----	+1.36	0	--- --	
5 Wy.	WI		+0.04	−0.16	0	6.0 3	
11 Hd.	WI		----	+0.98	0	--- 3½	R.
11 Hd.	WI		−0.04	+0.26	0	5.5 3½	
1915							
Oct. 23 Fn.	WI		+0.28	+1.02	0	6.0 3	R.
25 Hd.	WI		----	+1.19	0	--- 3	
25 Hd.	WI		+0.07	+1.12	0	6.0 3	
27 Wy.	WI		----	+1.75	0	--- --	R.
27 Wy.	WI		−0.09	+0.92	0	6.0 3	
28 Hd.	EI		----	+0.29	0	--- 3	R.
28 Hd.	EI		+0.20	−0.11	0	6.0 3	
29 Fn.	EI		+0.34	+0.55	0	7.0 3½	
Nov. 1 Fn.	EI		+0.05	−0.06	0	7.0 3½	
2 Wy.	EI		−0.33	−0.32	0	6.0 3½	
3 Hd.	EI		+0.08	+0.41	0	6.0 3	
5 Wy.	EI		−0.21	−0.01	0	5.5 2½	
6 Hd.	EI		----	+0.35	0	--- 2½	R.
6 Hd.	EI		−0.04	+0.45	0	6.0 2	
8 Wy.	EI		−0.19	+0.69	0	6.0 3	
9 Hd.	WI		+0.11	+1.12	0	6.0 3	
10 Fn.	WI		−0.07	+0.52	0	--- 3	
13 Fn.	WI		----	−0.03	0	--- 3	R.
13 Fn.	WI		+0.24	+0.54	0	7.0 3	
17 Wy.	WI		−0.03	−0.39	0	6.0 2½	
1916							
Oct. 23 Wy.	WI		−0.23	−0.04	0	6.0 3	
24 Hd.	WI		−0.24	+0.46	0	6.0 2½	
26 Wy.	EI		+0.30	+0.39	0	6.0 3	
27 Hd.	EI		−0.13	+0.58	0	6.0 3	
31 Fn.	EI		−0.23	----	0	--- 3	
Nov. 2 Hd.	EI		−0.30	+0.59	0	6.5 3	
3 Fn.	EI		+0.22	+0.32	0	6.0 2½	
Mean------	1914.62		−0.011	+0.44			
	1914.58						
Corr------			−0.081	−0.38			

76 Draconis s. p.

h m s ° ′ ″
20 49 9.591 +82 11 55.48

				s	″	″				
1911										
Nov.	2	R.	EII	----		+0.18	0	---	--	R.
	2	R.	EII	+0.33		−0.47	0	---	--	
	10	Fn.	EII	+0.13		+0.04	0	---	--	
	12	Hd.	EII	−0.50		+0.24	0	---	4	
	15	Hd.	EII	+0.16		−0.57	0	---	3	
	16	Hd.	EII	----		−0.79	0	---	3	R.
	16	Hd.	EII	+0.28		−0.78	0	---	3	
	19	R.	EII	−0.23		+0.35	0	---	--	
	21	R.	EII	−0.11		−0.84	0	---	--	
	22	Fn.	EII	+0.11		−0.81	0	---	2	
	26	Hd.	WII	----		−0.73	0	---	3	R.
	26	Hd.	WII	+0.09		−0.47	0	---	3	
1912										
Oct.	*28*	*Hd.*	*EII*	----	*−0.98*	*−0.98*	*0*	---	*2*	*R.*
	28	*Hd.*	*EII*	*−0.10*	*−0.16*	*−0.16*	*0*	---	*2*	
Nov.	3	Hd.	WII	----		−0.24	0	---	3	R.
	3	Hd.	WII	−0.20		0.00	0	---	2	
	4	R.	WII	+0.20		+0.72	0	---	--	
	8	Hd.	WII	----		−0.80	0	---	4	R.
	8	Hd.	WII	−0.23		+0.93	0	---	4	
	11	Fn.	EII	----		−1.27	0	---	3½	R.
	11	Fn.	EII	+0.15		−0.38	0	---	3½	
	12	Fn.	EII	----		0.00	0	---	3	R.
	12	Fn.	EII	+0.13		−1.90	0	---	3	
	16	R.	EII	0.00		−0.84	0	---	1½	
1913										
Nov.	4	Fn.	EI	----		+0.52	0	---	3½	R.
	4	Fn.	EI	−0.32		−0.21	0	6.0	3½	
	5	R.	EI	----		−0.64	0	---	2	R.
	5	R.	EI	−0.22		+0.42	I	4.9	2	
	6	Hd.	EI	----		−0.34	0	---	3	R.
	6	Hd.	EI	−0.03		−0.20	0	6.0	3	
	10	Hd.	WI	----		−0.89	0	---	3½	R.
	10	Hd.	WI	−0.22		+0.07	0	6.0	3½	
	14	Fn.	WI	----		+0.26	0	---	2½	R.
	14	Fn.	WI	+0.12		−0.75	0	6.0	2½	
	17	Hd.	WI	−0.03		−0.32	0	6.0	4	
1914										
Oct.	*27*	*Fn.*	*EI*	*−0.22*	----	----	*0*	---	*3½*	
	29	*An.*	*EI*	----	*−0.94*	*−0.94*	*0*	---	*3*	
	30	*Fn.*	*EI*	----	*−0.84*	*−0.97*	*0*	---	*3*	*R.*
	30	*Fn.*	*EI*	*+0.04*	*−1.67*	*−1.80*	*0*	---	*3*	
Nov.	1	Wy.	WI	----		−1.02	0	---	3½	R.
	1	Wy.	WI	+0.15		−1.32	0	---	3½	
	2	Hd.	WI	----		−2.30	0	---	--	R.
	2	Hd.	WI	+0.09		−0.16	0	6.0	--	
	3	Fn.	WI	+0.22		−1.02	0	---	4	
	4	Wy.	WI	−0.10		−1.17	0	6.5	4	
	9	An.	WI	----		−0.83	0	6.5	3½	
	13	Hd.	WI	----		−1.14	0	---	3	R.
	13	Hd.	WI	−0.24		−0.23	0	6.0	3	
1915										
Feb.	10	Hd.–An.	EI	----		−0.68	0	----	3	R.
	17	Fn.–Wy.	EI	----		+0.11	0	---	2½	R.
	18	Hd.–An.	EI	----		−0.69	0	6.0	3	
	19	Fn.–Wy.	EI	----		−0.53	0	6.0	3	
	20	An.–Hd.	WI	----		−1.78	0	---	3	R.
	21	An.–Hd.	WI	----		−0.33	0	6.5	3½	
Mar.	1	Wy.–Fn.	WI	----		−0.84	0	6.5	3½	
	8	Wy.–Fn.	WI	----		−0.84	0	---	--	R.
	9	Wy.–Fn.	WI	----		−0.68	0	---	3½	R.
Oct.	*23*	*Wy.*	*WI*	*−0.21*	*−0.21*	*−0.04*	*0*	---	*4*	
	27	*Fn.*	*WI*	*+0.03*	*−1.11*	*−1.04*	*0*	---	*3*	
	29	*Hd.*	*EI*	*+0.04*	*−1.04*	*−1.08*	*0*	---	*3*	
	30	*Fn.*	*EI*	----	*−0.68*	*−0.66*	*0*	---	*3*	*R.*
	30	*Fn.*	*EI*	*−0.21*	*−0.89*	*−0.87*	*0*	---	*3*	
Nov.	1	Hd.	EI	−0.10		−1.84	0	---	4	
	5	Fn.	EI	----		+0.64	0	---	3½	R.
	5	Fn.	EI	+0.07		−1.01	0	6.0	3½	
	7	Hd.	EI	----		−0.15	0	---	3	R.
	7	Hd.	EI	+0.15		−0.99	0	7.0	2	
	9	Wy.	WI	----		−0.76	0	---	3	R.
	9	Wy.	WI	−0.07		−1.49	0	6.0	3	
1915										
Nov.	10	Hd.	WI	−0.16		−0.95	0	---	3	
	17	Fn.	WI	−0.01		−0.44	0	6.0	3	
1916										
Mar.	23	Hd.–Wy.	WI	----		−0.49	0	6.0	3	
	24	Hd.–Wy.	WI	----		−0.74	0	---	3½	R.
	31	Hd.–Wy.	EI	----		−0.54	0	6.5	3	
Apr.	10	Hd.–Wy.	EI	----		−1.35	0	---	2½	R.
	13	Hd.–Fn.	EI	----		−0.20	0	---	3½	R.
	15	Hd.–Fn.	EI	----		−0.65	0	6.0	3	
	18	Hd.–Fn.	EI	----		−0.32	0	---	3	R.
	19	Hd.–Fn.	WI	----		−1.13	0	---	3	R.
	20	Hd.–Wy.	WI	----		−0.09	0	---	3	
Oct.	*23*	*Hd.*	*WI*	*−0.08*	*−0.71*	*−0.67*	*0*	---	*3*	
	25	*Wy.*	*EI*	*−0.02*	*−0.05*	*+0.04*	*0*	---	*4*	
	26	*Hd.*	*EI*	*+0.35*	*−0.78*	*−0.74*	*0*	---	*3½*	
Nov.	1	Hd.	EI	+0.18		−1.11	0	---	3½	
	2	Fn.	EI	−0.23		−1.24	0	6.0	3	
Mean			1916.83	−0.013		−0.55				
			1914.20							
Corr				−0.081		+0.46				

32 Vulpeculæ

h m s ° ′ ″
20 50 43.443 +27 42 53.71

1912									
July	30	R.	WII	−0.009	+0.14	0	5.5	2	
Aug.	1	R.	WII	−0.005	−0.03	0	---	1	
	3	R.	EII	−0.022	+0.06	I	4.9	1	
	5	Fn.	EII	−0.023	+0.07	0	5.2	2	
1914									
July	20	Fn.	EI	−0.042	−0.53	0	5.5	2½	
	22	Fn.	EI	+0.012	−0.35	0	5.0	2	
Aug.	13	Hd.	WI	+0.022	+0.20	I	4.9	2	
	14	Wy.	WI	−0.033	−0.43	I	4.9	2	
Mean			1913.59	−0.012	−0.11				
Corr				−0.081	−0.25				

Weisse, XX 1574

				h m s	° ′ ″			
1912								
July	27	Fn.	WII	20 51 11.057	+36 43 49.53	0	6.8	2
Aug.	7	Fn.	EII	11.076	50.01	0	6.7	2½
	10	R.	EII	11.078	49.86	0	7.5	1
	23	Fn.	WII	11.133	49.36	0	---	2
1914								
July	31	Fn.	EI	11.078	50.36	0	7.0	2
Aug.	6	Fn.	EI	11.075	49.96	0	7.5	2
	15	Fn.	WI	11.073	49.37	0	7.0	2
	20	Fn.	WI	11.050	49.51	0	7.5	2
Mean			1913.61	20 51 11.078	+36 43 49.74			
Corr				−0.081	−0.26			

Bradley 2708

				h m s	° ′ ″			
1911								
July	10	Fn.	WII	20 51 21.029	+13 22 41.03	0	5.6	1½
	12	R.	WII	21.055	40.42	0	---	--
	18	Hd.	EII	20.978	39.53	0	5.5	3½
	19	R.	EII	20.992	39.18	0	5.0	2
1915								
July	14	An.	WI	21.051	39.05	0	---	2½
	17	An.	WI	21.027	39.42	I	5.9	3
	22	Fn.	EI	21.063	39.68	0	---	2½
	23	Hd.	EI	21.033	39.55	0	5.5	3
Mean			1913.54	20 51 21.028	+13 22 39.73			
Corr				−0.081	−0.22			

220 H¹. Draconis

				h m s	° ′ ″				
				20 51 42.047	+80 12 54.93				
1911									
Aug. 7	Fn.	WII		−0.21	−0.73	0	5.6	2½	
9	Fn.	EII		−0.21	−0.29	0	5.5	...	
10	R.	EII		−0.18	−0.36	0	5.5	1½	
Sept. 1	Fn.	WII		−0.27	−0.16	0	...	...	
1913									
Aug. 7	R.–Fn.	WII		....	+0.15	0	...	1½	R.
7	R.–Fn.	WII		....	+0.54	I	4.9	1	
11	R.–Fn.	WII		....	−0.22	I	...	1½	R.
11	R.–Fn.	WII		....	+0.52	I	4.9	1½	
14	R.–Fn.	WII		....	+0.29	0	...	2	R.
14	R.–Fn.	WII		....	+0.16	I	4.9	2	
15	Fn.–R.	WII		....	+0.44	0	...	2	R.
15	Fn.–R.	WII		....	+0.26	0	5.5	2	
16	Fn.–R.	WII		....	+0.34	0	...	2½	R.
16	Fn.–R.	WII		....	+0.36	0	5.5	2½	
20	R.–Fn.	EII		....	+0.33	I	...	2	R.
20	R.–Fn.	EII		....	−0.84	I	4.4	2	
25	R.–Fn.	EII		....	+0.78	I	...	2	R.
25	R.–Fn.	EII		....	−1.63	I	4.9	2	
31	Fn.–R.	EII		....	−1.85	0	...	2½	R.
31	Fn.–R.	EII		....	−0.25	0	5.5	2½	
Sept. 2	Fn.–R.	EII		....	−1.05	0	...	3	R.
2	Fn.–R.	EII		....	−0.07	0	5.5	2	
4	Fn.–R.	EII		....	−0.07	0	...	2	R.
4	Fn.–R.	EII		....	−0.36	0	5.5	2	
1915									
June 28	Wy.	EI		+0.04	+0.07	I	4.9	3	
Aug. 13	An.	EI		−0.21	+0.29	0	6.0	3	
18	Wy.	WI		−0.13	+0.82	0	6.0	3	
19	Fn.	WI		−0.16	−0.13	0	6.0	2	
Mean	1913.61			−0.166	−0.10				
	1913.62								
Corr				−0.081	−0.37				

220 H¹. Draconis s. p.

				h m s	° ′ ″				
				20 51 42.048	+80 12 54.90				
1913									
Feb. 13	R.	WII		−0.12	−0.73	0	...	2½	
15	R.	WII		−0.11	−0.13	0	...	3½	
18	Hd.	EII		−0.08	−0.66	0	6.0	3	
25	Hd.	EII		−0.24	−1.22	0	5.7	3	
Dec. 29	Hd.	WI		−0.09	−0.74	0	6.5	3½	
30	Fn.	WI		−0.30	−1.87	0	...	3	
1914									
Jan. 5	Hd.	EI		−0.07	−1.28	0	6.5	3	
8	Hd.	EI		−0.53	−0.54	0	...	5	
1915									
Feb. 10	Hd.–An.	EI		....	−1.22	0	6.0	3½	
17	Fn.–Wy.	EI		....	−1.04	0	5.5	2½	
18	Hd.–An.	EI		....	−0.91	0	...	3	R.
19	Fn.–Wy.	EI		....	−0.79	0	...	...	R.
20	An.–Hd.	WI		....	−0.51	0	6.0	3	
21	An.–Hd.	WI		....	−1.33	0	...	3½	R.
Mar. 1	Wy.–Fn.	WI		....	−1.40	0	...	3½	R.
8	Wy.–Fn.	WI		....	−0.48	0	6.0	3	
9	Wy.–Fn.	WI		....	−1.35	0	5.5	3½	
1916									
Mar. 23	Hd.–Wy	WI		....	−0.88	0	...	3	R.
24	Hd.–Wy.	WI		....	−0.99	0	...	3½	
31	Hd.–Wy.	EI		....	−1.41	0	...	3	R.
Apr. 10	Hd.–Wy.	EI		....	−1.27	I	4.9	3	
13	Hd.–Fn.	EI		....	−0.68	0	...	3½	
15	Hd.–Fn.	EI		....	−0.36	0	...	3	R.
18	Hd.–Fn.	EI		....	−0.89	0	6.0	3½	
19	Hd.–Fn.	WI		....	−0.42	0	6.0	3	
Mean	1913.57			−0.192	−0.89				
	1914.76								
Corr				−0.081	+0.48				

Piazzi XX 386

				h m s	° ′ ″				
1911									
July 15	R.	WII		20 52 38.523	−16 22 42.19	0	...	...	
20	Fn.	EII		38.476	43.14	0	...	...	
22	R.	EII		38.507	42.23	0	7.0	4	
26	R.	WII		38.506	41.64	0	5.0	3	
1915									
June 22	Wy.	EI		38.472	41.78	0	6.5	3	
24	Fn.	EI		38.432	42.78	0	6.0	2½	
July 6	Fn.	WI		38.437	42.31	0	6.0	3	
8	Hd.	WI		38.496	42.60	0	6.0	3	
Mean	1913.52			20 52 38.481	−16 22 42.33				
Corr				−0.081	−0.11				

B. D.+3° 4466

				h m s	° ′ ″				
1912									
Aug. 27	R.	WII		20 53 18.318	+3 50 52.78	0	6.5	3	
29	R.	WII		18.325	52.96	0	7.0	2	
Sept. 6	Hd.	EII		18.357	52.31	0	...	2	
10	R.	EII		18.330	53.37	0	6.5	2	
1914									
Aug. 7	Hd.	EI		18.322	53.18	0	7.0	2	
18	Wy.	WI		18.341	52.72	0	6.5	2½	
31	Fn.	WI		18.305	53.18	0	6.0	2	
Sept. 10	An.	EI		18.310	52.34	0	6.5	3	
14	Fn.	EI		18.340	53.32	0	6.5	2½	
Mean	1913.77			20 53 18.328	+3 50 52.91				
Corr				−0.081	−0.19				

ν Cygni

				h m s	° ′ ″				
				20 53 49.046	+40 49 12.62				
1912				s	″				
Aug. 31	R.	WII		−0.006	−0.38	I	4.4	1	
Sept. 9	Hd.	EII		−0.021	+0.17	I	3.4	2	
12	R.	WII		+0.034	+0.21	I	3.9	1½	
27	Hd.	EII		−0.059	+0.07	0	...	3	
1914									
Sept. 1	An.	WI		+0.009	+0.91	I	3.4	2	
2	Wy.	WI		+0.019	+0.36	0	...	3½	
4	Fn.	WI		+0.021	+0.03	I	3.9	2	
5	Wy.	WI		+0.061	+0.35	I	3.9	2½	
8	Wy.	EI		+0.008	−0.20	I	4.4	2	
9	Fn.	EI		+0.080	−0.07	I	3.9	2	
16	Wy.	EI		+0.021	....	0	...	2½	
29	Wy.	WI		+0.008	....	I	4.4	2	
1915									
Aug. 26	Hd.	WI		+0.017	....	I	...	2	
31	Wy.	WI		−0.023	....	0	...	3	
Sept. 3	Hd.	WI		+0.034	....	I	...	2	
7	Wy.	WI		+0.044	....	I	3.9	2	
10	Hd.	WI		+0.003	....	I	3.4	2	
13	Hd.	EI		+0.023	....	I	3.4	2	
16	Wy.	EI		+0.025	....	I	3.9	2	
20	Hd.	EI		+0.002	....	I	3.4	2	
23	Hd.	EI		+0.020	....	I	3.4	2	
Oct. 21	Hd.	WI		+0.028	....	I	3.9	3	
1916									
Aug. 21	Wy.	EI		+0.043	−0.09	I	3.4	2½	
Sept. 11	Hd.	WI		+0.021	+0.12	I	3.4	2	
19	Hd.	EI		+0.010	+0.79	I	3.4	2	
25	Wy.	EI		−0.011	+0.02	I	3.9	2	
26	Hd.	EI		+0.013	+0.14	I	2.9	2	
28	Wy.	WI		+0.027	+0.60	0	...	2½	
Oct. 9	Hd.	WI		+0.038	+0.18	0	...	3	
12	Hd.	WI		−0.043	+1.15	I	3.4	2	
23	Wy.	WI		+0.045	+0.52	I	3.4	2½	
24	Hd.	WI		+0.010	−0.35	I	3.4	2	
26	Wy.	EI		−0.001	+0.30	I	3.9	2	
31	Fn.	EI		+0.039	−0.13	0	...	2½	
Nov. 7	Wy.	EI		+0.010	+0.21	I	3.9	3	
10	Fn.	EI		+0.050	+0.43	0	...	2	
16	Wy.	WI		+0.008	−0.13	I	3.4	2	
27	*Wy.*	*WI*		*−0.001*	*+0.33*	*+0.32*	*0*	...	*2½*

				s	"	"			
1916									
Dec.	*8*	*Hd.*	*EI*	*−0.002*	*+0.03*	*+0.03*	*0*	---	*2*
	19	*Hd.*	*WI*	*+0.020*	*+0.36*	*+0.35*	*0*	---	*2½*
	22	*Hd.*	*WI*	*+0.032*	----	----	*0*	---	*3½*
	29	*Hd.*	*WI*	*+0.005*	*+0.24*	*+0.24*	*0*	---	*2½*
1917									
Jan.	*8*	*Wy.*	*EI*	*+0.036*	*+0.09*	*+0.08*	*0*	---	*3½*
Sept.	4	Fn.	EII	+0.036		+0.77	0	---	3
	6	Wy.	EII	−0.004		----	0	---	3
	11	Fn.	EII	+0.023		+0.31	I	3.9	2
	13	Hd.	EII	+0.004		+0.14	I	---	2
	17	Hd.	EII	+0.017		+0.57	I	3.9	2
	18	Wy.	EII	+0.036		+0.24	I	3.9	2
	20	Hd.	WII	+0.033		+0.68	I	4.4	3
Oct.	2	Fn.	WII	+0.018		+1.15	I	3.9	2½
	4	Hd.	WII	+0.016		+0.75	I	4.4	2
	11	Hd.	EII	+0.017		−0.03	I	3.9	2
	15	Fn.	EII	+0.025		+0.15	0	4.5	2½
	22	Hd.	EII	+0.022		+0.07	I	3.4	3
Dec.	*20*	*Hd.*	*EII*	*+0.063*	*−0.17*	*−0.17*	*0*	---	*5*
	21	*Wy.*	*EII*	*+0.026*	*−0.79*	*−0.80*	*0*	---	*3½*
	26	*Hd.*	*EII*	*+0.050*	----	----	*0*	---	*3*
1918									
Jan.	*12*	*Wy.*	*EII*	*+0.031*	----	----	*0*	---	--
Feb.	*10*	*Wy.*	*WII*	*−0.069*	*−1.05*	*−1.06*	*0*	---	*3*
Mar.	*10*	*Hd.*	*WII*	*+0.031*	*+0.89*	*+0.89*	*0*	---	*3½*
	17	*Wy.*	*WII*	-----	*+0.40*	*+0.40*	*0*	---	*3½*
Apr.	*15*	*Wy.*	*EII*	-----	*−0.68*	*−0.68*	*0*	---	*3½*
May	*1*	*Fn.*	*EII*	*+0.003*	*+0.60*	*+0.60*	*0*	---	*3*
Aug.	8	Wy.	WII	+0.023		+0.24	I	3.9	2½
Mean------		1916.17		+0.017		+0.28			
		1916.33							
Corr----------				−0.081		−0.27			

Bradley 2719

				h	m	s	°	'	"			
1911												
July	24	Fn.	EII	20	54	15.002	+21	58	39.70	0	5.3	--
	27	Fn.	WII			14.905			39.18	0	4.9	2
	31	Fn.	WII			14.889			38.62	0	5.0	2
Aug.	8	R.	EII			14.944			38.39	0	---	2½
1915												
July	24	An.	EI			14.935			39.19	I	5.4	1½
Aug.	10	An.	EI			14.920			38.53	I	5.4	1½
	21	Wy.	WI			14.981			38.79	0	6.0	3
	23	Wy.	WI			14.943			39.35	I	5.4	2
Mean------		1913.60		20	54	14.940	+21	58	38.97			
Corr----------						−0.081			−0.23			

γ Microscopii

				h	m	s	°	'	"			
				20	55	46.450	−32	36	36.02			
1912												
Aug.	10	R.	EII			+0.008			+0.12	0	6.0	3
	12	Fn.	EII			+0.007			−0.21	0	5.8	3
	23	Fn.	WII			+0.014			−2.86	0	---	3½
	24	R.	WII			−0.010			−1.69	0	6.5	2½
1914												
July	28	Hd.	EI			+0.050			+0.62	0	---	3½
	31	Fn.	EI			+0.079			−0.95	0	---	4
Aug.	13	Hd.	WI			−0.028			+0.66	0	5.5	3
	14	Wy.	WI			+0.016			−0.45	0	6.0	3
Mean------		1913.61				+0.017			−0.60			
Corr----------						−0.081			+0.08			

Bradley 2735

				h	m	s	°	'	"			
1911												
July	12	R.	WII	20	58	2.419	+45	48	7.85	0	---	--
	14	Hd.	WII			2.456			7.28	0	---	--
	18	Hd.	EII			2.325			7.07	0	5.8	3½
	19	R.	EII			2.299			7.36	0	5.0	1
1915												
June	22	Wy.	EI			2.440			7.73	0	6.0	2½
	24	Fn.	EI			2.367			7.49	0	6.0	2
July	8	Hd.	WI			2.409			7.15	0	6.0	3
	17	An.	WI			2.441			7.00	0	5.5	2
Mean------		1913.52		20	58	2.394	+45	48	7.37			
Corr----------						−0.081			−0.28			

η Capricorni

				h	m	s	°	'	"			
1911												
July	15	R.	WII	20	59	17.120	−20	12	40.29	0	---	3
	22	R.	EII			17.186			40.93	0	5.0	4
	24	Fn.	EII			17.124			40.63	0	5.2	--
	26	R.	WII			17.126			41.09	0	4.5	3
1915												
July	23	Hd.	EI			17.106			40.16	0	---	3
	24	An.	EI			17.125			40.65	I	5.4	3
Aug.	17	An.	WI			17.124			41.09	0	---	3½
	19	Fn.	WI			17.095			41.81	0	5.5	2½
Mean------		1913.58		20	59	17.126	−20	12	40.83			
Corr----------						−0.081			−0.08			

Groombridge 3375

				h	m	s	°	'	"			
1912												
July	25	Fn.	WII	20	59	28.353	+56	42	60.03	0	---	3½
	27	Fn.	WII			28.335			59.87	0	---	3
Aug.	6	R.	EII			28.338			59.49	0	7.5	2
	7	Fn.	EII			28.365			60.78	0	---	2½
1914												
Aug.	6	Fn.	EI			28.347			58.58	0	7.0	2½
	7	Hd.	EI			28.329			59.20	0	7.0	2
	13	Hd.	WI			28.389			59.92	0	6.5	2
	14	Wy.	WI			28.333			59.39	0	6.0	3
Mean------		1913.60		20	59	28.349	+56	42	59.66			
Corr----------						−0.081			−0.31			

Fedorenko 3684

				h	m	s	°	'	"			
1911												
Aug.	7	Fn.	WII	21	0	29.46	+67	48	26.34	0	7.2	2½
Sept.	1	Fn.	WII			29.51			26.75	0	---	--
	25	Fn.	EII			29.58			27.22	0	7.0	2½
	26	Hd.	EII			29.43			26.34	0	6.8	3
1915												
July	6	Fn.	WI			29.60			26.93	0	8.0	2
	14	An.	WI			29.56			26.12	0	---	3
	20	Hd.	EI			29.55			27.01	0	7.5	2
	22	Fn.	EI			29.63			26.84	0	---	2½
Mean------		1913.61		21	0	29.540	+67	48	26.69			
Corr----------						−0.081			−0.34			

θ Capricorni

				h	m	s	°	'	"			
				21	0	53.392	−17	35	28.03			
1912												
Aug.	31	R.	WII			+0.039			−0.55	I	---	2
Sept.	12	R.	WII			+0.054			−0.08	I	4.4	2
	28	R.	EII			+0.081			+0.71	I	4.4	2
	30	Hd.	EII			+0.100			+0.72	I	4.9	2
Oct.	27	R.	EII			+0.043			0.00	I	4.4	3
1914												
Aug.	22	An.	WI			+0.049			−0.15	I	3.9	2½
	31	Fn.	WI			+0.081			+0.02	0	4.5	3
Sept.	1	An.	WI			+0.054			+0.16	I	4.4	3
	2	Wy.	WI			+0.096			+0.21	I	---	4
	4	Fn.	WI			+0.049			+0.36	I	3.9	2½
	10	An.	EI			+0.096			+0.10	0	---	3
	13	Wy.	EI			+0.064			+0.79	I	4.4	2½
	14	Fn.	EI			+0.058			+1.59	0	4.5	2½
Mean------		1913.93				+0.066			+0.30			
Corr----------						−0.081			−0.09			

ξ Cygni

				h	m	s	°	′	″			
				21	1	39.411	+43	34	6.65			
1912												
Aug.	27	R.	WII			+0.021			−0.39	I	3.4	2½
	29	R.	WII			+0.033			+0.29	II	3.1	1½
Sept.	9	Hd.	EII			−0.036			−0.32	I	3.4	2
	10	R.	EII			−0.031			+0.08	I	2.9	1½
1914												
Sept.	5	Wy.	WI			+0.003			−0.31	I	3.4	2
	8	Wy.	EI			+0.001			+0.34	II	3.6	2½
	9	Fn.	EI			+0.019			−0.97	I	3.9	2
	25	Wy.	EI			+0.022			----	I	3.4	2½
	30	An.	WI			−0.013			+0.64	I	3.4	2
1915												
Aug.	23	Wy.	WI			+0.008			----	I	3.4	2½
	31	Wy.	WI			−0.040			----	0	---	2½
Sept.	10	Hd.	WI			+0.003			----	I	2.9	2
	16	Wy.	EI			+0.033			----	I	3.4	2
1916												
Sept.	25	Wy.	EI			−0.020			----	I	3.9	2
	28	Wy.	WI			+0.008			----	I	---	2½
Oct.	17	Fn.	WI			−0.034			----	0	---	2½
	24	Hd.	WI			−0.032			----	I	2.9	2
	31	Fn.	EI			−0.057			----	0	---	2½
Dec.	*19*	*Hd.*	*WI*			*+0.011*	----		----	*0*	---	*2½*
	22	*Hd.*	*WI*			*+0.008*	----		----	*0*	---	*3½*
	29	*Hd.*	*WI*			*+0.008*	----		----	*0*	---	*2½*
1917												
Jan.	*8*	*Wy.*	*EI*			*+0.007*	----		----	*0*	---	*3*
Aug.	23	Fn.	EII			+0.020			----	0	---	2
Sept.	6	Wy.	EII			−0.047			----	0	---	3
Dec.	*26*	*Hd.*	*EII*			*+0.023*	----		----	*0*	---	*3*
1918												
Jan.	*12*	*Wy.*	*EII*			*+0.002*	----		----	*0*	---	--
Mean			1915.31			−0.007			−0.08			
			1913.69									
Corr						−0.081			−0.28			

Weisse$_1$ XX 1503

				h	m	s	°	′	″			
1911												
July	27	Fn.	WII	21	1	56.301	− 0	27	57.19	0	6.8	2
	31	Fn.	WII			56.336			58.28	0	---	2
Aug.	9	Fn.	EII			56.297			57.70	0	7.0	--
	10	R.	EII			56.345			57.70	0	6.5	1
1915												
Sept.	7	Wy.	WI			56.318			57.10	0	7.0	2
	8	Hd.	WI			56.326			57.92	0	7.0	2½
	13	Hd.	EI			56.338			57.67	0	6.5	2
	14	Wy.	EI			56.318			57.34	0	7.0	2½
Mean			1913.64	21	1	56.322	− 0	27	57.61			
Corr						−0.081			−0.18			

Weisse$_2$ XX 1856

				h	m	s	°	′	″			
1912												
Aug.	12	Fn.	EII	21	2	28.626	+26	33	49.07	0	6.5	2
	15	R.	WII			28.588			48.96	0	6.5	3
	20	R.	WII			28.626			49.60	0	7.0	1
Sept.	6	Hd.	EII			28.606			48.85	0	6.5	--
1914												
July	28	Hd.	EI			28.597			49.21	0	6.5	2
	31	Fn.	EI			28.605			49.43	0	6.5	2½
Aug.	15	Fn.	WI			28.593			48.68	0	6.0	2
	17	Fn.	WI			28.553			49.07	0	6.5	2
Mean			1913.62	21	2	28.599	+26	33	49.11			
Corr						−0.081			−0.24			

Pulkowa 1855, 3078

				h	m	s	°	′	″			
1911												
Sept.	11	Fn.	WII	21	2	43.651	+30	49	23.72	0	5.7	1½
	12	Hd.	WII			43.708			24.19	0	5.8	3
	29	Hd.	EII			43.690			23.81	0	5.5	3
	30	R.	EII			43.686			24.59	I	4.4	1½
1915												
Aug.	14	Wy.	EI			43.627			24.04	0	6.5	2
	26	Hd.	WI			43.668			23.95	0	---	2
Sept.	1	Hd.	WI			43.639			24.39	0	---	2
	20	Hd.	EI			43.671			23.82	0	6.0	2
Mean			1913.69	21	2	43.668	+30	49	24.06			
Corr						−0.081			−0.25			

61 Cygni *pr.*

				h	m	s	°	′	″			
				21	2	53.324	+38	18	35.34			
1912												
Sept.	14	R.	WII			+0.113			−0.37	0	5.5	1½
	17	R.	WII			+0.105			−0.49	I	4.4	1
	27	Hd.	EII			+0.042			−0.18	0	---	3
	29	R.	EII			+0.049			−0.12	0	6.0	2
1914												
Sept.	16	Wy.	EI			+0.077			+0.17	0	---	2½
	19	Wy.	EI			+0.084			+0.02	I	4.4	2
	29	Wy.	WI			+0.097			+0.66	I	5.4	2
Oct.	2	Wy.	WI			+0.048			+0.24	I	5.4	2
	5	Wy.	WI			+0.117			+0.07	I	5.4	2
1915												
Oct.	21	Hd.	WI			+0.091			----	0	5.5	3
1916												
Sept.	25	Wy.	EI			+0.098			----	I	4.9	2½
	28	Wy.	WI			+0.142			----	0	---	2½
1917												
Sept.	6	Wy.	EII			+0.038			----	0	---	3
Mean			1914.73			+0.085			0.00			
			1913.84									
Corr						−0.081			−0.27			

61 Cygni *seq.*

				h	m	s	°	′	″			
1911												
Sept.	13	R.	WII	21	2	53.850	+38	18	13.99	I	---	1
	18	Fn.	WII			53.913			14.41	0	5.8	1½
Oct.	5	R.	EII			53.850			13.58	0	---	2
	6	Fn.	EII			53.839			14.25	0	6.4	2
1915												
June	22	Wy.	EI			55.062			23.94	0	6.5	2½
	24	Fn.	EI			55.032			23.49	0	6.0	2
	28	Wy.	EI			55.064			23.87	I	4.9	2
July	8	Hd.	WI			55.042			23.69	0	6.5	3
	9	Fn.	WI			55.020			23.20	0	6.5	2½
Mean			1913.82	21	2	54.519	+38	18	19.38			
Corr						−0.081			−0.27			

Weisse$_1$ XX 1553

				h	m	s	°	′	″			
1912												
Aug.	7	Fn.	EII	21	3	19.696	+15	17	50.51	0	6.3	2
	10	R.	EII			19.699			50.56	0	7.0	1
	23	Fn.	WII			19.736			50.81	0	6.6	2½
	24	R.	WII			19.737			50.37	0	6.5	2
1914												
July	20	Fn.	EI			19.719			49.70	0	6.5	2½
	22	Fn.	EI			19.720			50.45	0	6.5	2
Aug.	13	Hd.	WI			19.710			50.28	0	6.5	2
	14	Wy.	WI			19.733			50.50	0	6.5	2
Mean			1913.61	21	3	19.719	+15	17	50.40			
Corr						−0.081			−0.22			

χ Capricorni

				h	m	s	°	′	″			
1911												
July	10	Fn.	WII	21	3	24.471	−21	33	21.07	0	6.0	3
	12	R.	WII			24.448			19.97	0	---	--
	18	Hd.	EII			24.471			20.74	0	5.5	4
	20	Fn.	EII			24.468			20.92	0	5.7	2½

			h	m	s	°	′	″			
1915											
Aug. 19	Fn.	WI			24.460			21.50	0	6.0	2½
23	Wy.	WI			24.494			21.56	0	6.0	2½
Sept. 15	Hd.	EI			24.485			20.28	0	5.5	3
16	Wy.	EI			24.492			21.47	0	5.5	3
Mean	1913.60		21	3	24.474	−21	33	20.94			
Corr					−0.081			−0.06			

Lacaille 8701

			h	m	s	°	′	″			
1912											
Sept. 20	Hd.	WII	21	3	36.447	−28	50	19.17	0	8.0	5
Oct. 1	Hd.	EII			36.370			19.08	0	8.0	4
2	R.	EII			36.377			18.60	0	7.5	2½
9	Hd.	WII			36.373			19.71	0	7.5	2
1914											
Sept. 20	An.	EI			36.365			19.03	0	7.5	3
21	Hd.	EI			36.392			18.91	0	7.5	3
28	Hd.	WI			36.407			18.80	0	7.5	2½
Oct. 1	Hd.	WI			36.398			18.63	0	7.0	3
Mean	1913.74		21	3	36.391	−28	50	18.99			
Corr					−0.081			+0.01			

Weisse$_1$ XX 1565

			h	m	s	°	′	″			
1911											
July 15	R.	WII	21	4	1.468	+ 6	37	31.21	0	---	1
22	R.	EII			1.483			31.74	0	5.0	3
24	Fn.	EII			1.533			31.29	0	6.7	--
26	R.	WII			1.417			31.39	0	5.0	1
1915											
July 13	Fn.	WI			1.451			30.70	0	6.5	3
17	An.	WI			1.414			31.69	0	6.0	2½
23	Hd.	EI			1.453			31.90	0	6.5	2½
31	An.	EI			1.464			31.12	0	6.0	3
Mean	1913.56		21	4	1.460	+6	37	31.38			
Corr					−0.081			−0.20			

ρ Aquarii

			h	m	s	°	′	″			
			21	4	41.576	−11	44	11.31			
1912											
July 27	Fn.	WII			+0.078			−0.38	0	5.0	3
Aug. 1	R.	WII			+0.007			−0.76	0	---	3
5	Fn.	EII			+0.089			−0.46	0	5.0	2
6	R.	EII			+0.063			−0.54	I	4.9	3
1914											
Aug. 6	Fn.	EI			+0.111			−0.64	0	5.5	2½
7	Hd.	EI			+0.083			−0.69	0	5.5	3
18	Wy.	WI			+0.048			−0.66	I	4.9	3
20	Fn.	WI			+0.076			−0.92	0	5.5	2½
Mean	1913.60				+0.069			−0.63			
Corr					−0.081			−0.13			

Bradley 2777

			h	m	s	°	′	″			
			21	7	19.211	+77	45	41.70			
1912											
Oct. 3	Hd.	EII			−0.20			+0.16	0	6.0	3
4	Hd.	EII			−0.22			+0.18	0	6.0	1
9	Hd.	WII			−0.25			−0.02	0	6.0	2
10	Hd.	WII			−0.11			+0.41	0	---	2
1914											
Sept. 1	An.	WI			−0.19			+0.78	0	5.5	3½
4	Fn.	WI			−0.30			−0.12	0	6.0	2½
5	Wy	WI			−0.21			+0.67	0	6.5	2
8	Wy.	EI			−0.23			−0.03	0	6.0	2½
9	Fn.	EI			−0.08			−0.17	0	6.0	2
Mean	1913.83				−0.199			+0.21			
Corr					−0.081			−0.36			

Bradley 2777 s. p.

			h	m	s	°	′	″			
			21	7	19.208	+77	45	41.70			
1912											
Dec. 19	R.	EII			−0.22			+0.16	0	---	2
1913											
Jan. 14	R.	WII			−0.37			−1.07	0	6.0	1½
19	R.	EII			−0.21			−0.45	0	6.5	3½
Feb. 6	R.	WII			−0.29			+0.08	0	6.5	2½
Dec. 20	R.	WI			−0.06			−0.35	0	6.0	2½
26	Fn.	WI			−0.35			+0.23	0	6.0	3½
1914											
Jan. 15	Hd.	EI			−0.28			−0.41	0	6.5	3
27	R.	WI			−0.08			+0.27	0	---	5
Feb. 9	Hd.	EI			−0.40			−1.07	0	---	5
Mean	1913.59				−0.251			−0.29			
Corr					−0.081			+0.50			

3 Piscis Australis

			h	m	s	°	′	″			
			21	7	57.288	−27	59	13.18			
1911											
July 27	Fn.	WII			+0.110			−0.97	0	6.0	2½
31	Fn.	WII			+0.100			−1.35	0	5.6	2½
Aug. 9	Fn.	EII			+0.049			−0.70	0	5.5	--
10	R.	EII			+0.085			−0.55	0	5.0	2½
1915											
June 22	Wy.	EI			+0.101			+0.17	0	6.5	3½
24	Fn.	EI			+0.037			−0.04	0	6.5	3
July 6	Fn.	WI			+0.039			−0.09	0	6.0	2½
8	Hd.	WI			+0.093			−0.07	0	6.0	3½
Mean	1913.54				+0.077			−0.45			
Corr					−0.081			0.00			

χ Cygni

			h	m	s	°	′	″			
			21	9	6.311	+29	51	26.02			
					s			″			
1911											
Sept. 6	R.	WII			+0.035			----	II	2.6	1
11	Fn.	WII			+0.055			----	0	---	1½
12	Hd.	WII			+0.015			----	I	3.4	3
13	R.	WII			+0.049			+0.98	II	2.6	1
18	Fn.	WII			+0.078			+0.62	0	3.4	1½
20	R.	WII			+0.030			+0.17	II	2.6	1½
23	R.	WII			+0.049			+0.83	I	3.4	1
25	Fn.	EII			+0.027			----	I	3.0	2½
26	Hd.	EII			+0.035			----	I	2.9	3
29	Hd.	EII			+0.008			----	I	2.7	3
30	R.	EII			+0.054			+0.50	II	2.6	1
Oct. 4	Fn.	EII			+0.049			+0.10	I	3.0	3
5	R.	EII			0.000			+0.52	1	---	2
6	Fn.	EII			+0.034			+0.66	1	3.0	2
11	Hd.	WII			+0.004			+0.48	I	2.9	2
25	R.	WII			+0.028			+0.22	I	2.9	1
26	R.	WII			+0.049			+0.82	II	2.6	1½
30	R.	EII			+0.045			+0.38	II	2.6	1
Nov. 2	R.	EII			+0.023			----	II	2.6	2
3	R.	EII			+0.004			----	I	2.4	1
7	Fn.	EII			−0.004			−0.07	I	2.9	2½
10	Fn.	EII			+0.036			+0.09	I	3.0	2
11	Fn.	EII			+0.010			+1.38	I	----	--
13	Hd.	EII			+0.009			−0.10	I	2.9	2
16	Hd.	EII			+0.010			+0.35	I	2.9	2
18	Hd.	EII			−0.007			0.00	I	2.7	3½
21	R.	EII			-----			−0.16	II	2.6	2
1912											
Apr. 23	*R.*	*WII*			-----	*+0.26*		*+0.27*	*0*	---	*5*
24	*Fn.*	*EII*			*+0.054*	*+0.31*		*+0.25*	*0*	---	*3*
26	*R.*	*EII*			*0.000*	*+0.45*		*+0.44*	*0*	---	--
July 26	R.	WII			+0.017			+0.22	I	3.9	3
30	R.	WII			+0.017			+0.13	I	---	2
Aug. 3	R.	EII			+0.024			+0.51	I	2.9	2½
10	R.	EII			+0.024			+0.07	I	2.9	1
20	R.	WII			+0.064			+0.07	II	3.1	1
24	R.	WII			+0.056			+0.28	II	3.1	1
31	R.	WII			+0.018			−0.57	I	---	1

				s	"	"				
1912										
Sept.	6	Hd.	EII	−0.019		+0.18	I	2.9	--	
	9	Hd.	EII	+0.015		+0.26	I	2.9	2	
	10	R.	EII	−0.001		+0.56	II	2.6	1	
	14	R.	WII	+0.028		----	II	3.1	1	
	19	R.	WII	+0.032		----	0	---	1	
	20	Hd.	WII	+0.021		----	I	3.4	2	
	27	Hd.	EII	+0.008		+0.23	I	3.9	3	
	28	R.	EII	+0.014		+0.70	II	3.1	1	
	29	R.	EII	+0.025		+0.43	I	3.4	2	
Oct.	2	R.	EII	+0.054		+0.58	II	2.6	1	
	7	Hd.	WII	+0.032		+0.37	I	2.9	3	
	8	Hd.	WII	+0.024		----	I	3.4	2	
	27	R.	EII	+0.008		+0.26	II	2.6	2½	
	28	Fn.	EII	+0.025		+0.52	I	2.9	1½	
1913										
Mar.	*17*	*Hd.*	*WII*	*+0.043*	*+0.39*	*+0.39*	*0*	---	--	
	31	*Hd.*	*EII*	*−0.019*	*+0.32*	*+0.33*	*0*	---	*3*	
Apr.	*1*	*Fn.*	*EII*	*−0.050*	*+0.82*	*+0.82*	*0*	---	*3½*	
	6	*Fn.*	*WII*	*+0.033*	*+0.01*	*+0.01*	*0*	---	*3*	
	7	*Hd.*	*WII*	*+0.006*	*+0.23*	*+0.23*	*0*	---	*2*	
Aug.	7	R.–Fn.	WII	-----		+0.63	I	---	--	R.
	7	R.–Fn.	WII	-----		+0.88	I	---	--	
	14	R.–Fn.	WII	-----		+0.07	I	---	2	R.
	14	R.–Fn.	WII	-----		+0.79	I	2.9	1½	
	15	Fn.–R.	WII	-----		+0.36	I	---	2	R.
	15	Fn.–R.	WII	-----		+0.63	I	3.4	2	
	16	Fn.–R.	WII	-----		+0.52	I	---	3	R.
	16	Fn.–R.	WII	-----		+0.74	I	3.4	2½	
	17	R.–Fn.	WII	-----		−0.74	0	---	2½	R.
	17	R.–Fn.	WII	-----		+0.70	I	---	2½	
	20	R.–Fn.	EII	-----		+0.66	I	---	2	R.
	20	R.–Fn.	EII	-----		+0.22	II	2.1	2	
	21	R.–Fn.	EII	-----		−0.02	I	---	2	R.
	21	R.–Fn.	EII	-----		+0.07	II	2.6	2	
	25	R.–Fn.	EII	-----		+0.53	I	---	2	R.
	25	R.–Fn.	EII	-----		−0.14	I	2.9	2	
Sept.	4	Fn.–R.	EII	-----		+0.61	I	---	2½	R.
	4	Fn.–R.	EII	-----		+0.43	I	3.4	2	
1914										
Mar.	*20*	*Hd.*	*EI*	*+0.061*	*+0.40*	*+0.41*	*0*	---	*3*	
	22	*Fn.*	*EI*	*−0.002*	*+0.42*	*+0.42*	*0*	---	*3½*	
	23	*Wy.*	*EI*	*+0.090*	*−0.61*	*−0.60*	*0*	---	*3*	
	24	*Hd.*	*EI*	*+0.003*	*−0.31*	*−0.31*	*0*	---	*3*	
Apr.	*3*	*Hd.*	*WI*	*+0.058*	*−0.14*	*−0.12*	*0*	---	*3*	
	6	*Wy.*	*WI*	-----	*+0.80*	*+0.78*	*0*	---	*3*	
	9	*Wy.*	*WI*	*+0.021*	*+0.49*	*+0.48*	*0*	---	*3½*	
	12	*Fn.*	*EI*	*−0.009*	*+0.54*	*+0.55*	*0*	---	*3*	
July	22	Fn.	EI	+0.084		+0.30	I	3.4	2	
Aug.	17	Fn.	WI	+0.041		----	I	2.9	2	
	18	Wy.	WI	+0.053		----	I	3.4	2½	
	20	Fn.	WI	+0.015		----	I	3.4	2	
	22	An.	WI	+0.069		----	I	3.4	3	
	30	Wy.	WI	+0.055		----	I	3.4	2½	
Sept.	10	An.	EI	+0.045		----	II	4.1	1½	
	13	Wy.	EI	+0.012		----	II	3.9	2	
	14	Fn.	EI	+0.002		−0.28	I	3.4	2	
	16	Wy.	EI	+0.025		----	0	---	2½	
	18	An.	EI	0.000		----	0	---	2½	
	19	Wy.	EI	+0.017		----	I	3.4	2	
	21	Hd.	EI	+0.001		----	I	2.9	2	
	22	Wy.	EI	+0.021		+0.30	I	3.4	2	
	25	Wy.	EI	−0.009		+0.46	I	3.4	3	
	26	An.	EI	+0.042		+0.22	II	3.1	2	
	28	Hd.	WI	+0.011		+0.18	I	3.1	2	
	29	Wy.	WI	−0.003		+0.91	I	3.4	2	
	30	An.	WI	0.000		+0.73	II	3.6	2	
Oct.	1	Hd.	WI	+0.037		+0.90	I	2.9	2	
	5	Wy.	WI	+0.038		+0.49	I	3.4	2	
	20	Hd.	EI	+0.064		----	I	2.9	3	
	23	Fn.	EI	+0.062		----	I	2.9	2½	
	31	Fn.	EI	-----		−1.06	I	2.9	2½	
Nov.	11	Hd.	WI	−0.006		----	I	2.9	3	
	18	Hd.	EI	+0.029		+0.16	I	3.4	2	
	19	Wy.	EI	+0.019		+0.79	I	2.9	2½	
1915										
Mar.	*28*	*Fn.*	*EI*	*+0.037*	*−0.06*	*−0.04*	*0*	---	*3½*	
	29	*Wy.*	*EI*	*+0.111*	----	----	*0*	---	*4*	
	30	*An.*	*EI*	*+0.108*	*+0.25*	*+0.26*	*0*	---	*3*	
1915										
Mar.	*31*	*Fn.*	*EI*	*+0.015*	*−0.15*	*−0.15*	*0*	---	*3½*	
Apr.	*7*	*Hd.*	*EI*	*+0.002*	*−0.22*	*−0.21*	*0*	---	*3*	
	13	*An.*	*WI*	*−0.045*	*+0.36*	*+0.36*	*0*	---	*3*	
July	31	An.	EI	+0.042		----	I	---	3	
Aug.	9	Fn.	EI	+0.034		----	I	3.9	2	
	14	Wy.	EI	+0.007		+0.50	I	3.9	2	
	16	Fn.	EI	+0.008		----	0	---	2	
	17	An.	WI	+0.034		----	I	---	2½	
	19	Fn.	WI	+0.029		----	I	3.9	2	
	21	Wy.	WI	+0.045		----	I	3.9	3	
	23	Wy.	WI	+0.038		+0.70	I	3.4	2	
	25	Wy.	WI	+0.058		+0.15	I	3.4	3	
	26	Hd.	WI	+0.017		+0.10	I	---	2	
	31	Wy.	WI	+0.004		----	0	---	2½	
Sept.	1	Hd.	WI	−0.005		−0.05	I	---	2	
	3	Hd.	WI	+0.011		+0.28	I	---	2	
	7	Wy.	WI	+0.027		+1.10	I	3.4	2	
	8	Hd.	WI	+0.006		−0.06	I	2.9	2½	
	10	Hd.	WI	+0.040		+0.04	I	2.9	2	
	13	Hd.	EI	+0.027		----	I	2.9	2	
	14	Wy.	EI	−0.007		+0.05	I	3.4	2	
	15	Hd.	EI	+0.002		+0.64	II	2.6	2	
	16	Wy.	EI	+0.015		−0.04	I	2.9	2	
	20	Hd.	EI	+0.016		+0.48	I	3.4	3	
	22	Hd.	EI	+0.012		+0.16	I	---	2	
	24	Wy.	EI	+0.015		+0.31	I	---	3	
	28	Fn.	EI	+0.018		+0.23	I	---	2	
Oct.	8	Hd.	WI	−0.003		+0.83	I	2.9	3	
	9	Fn.	WI	+0.071		+0.28	I	3.4	3	
	11	Fn.	WI	+0.030		----	I	3.4	2½	
	12	Wy.	WI	+0.034		+0.46	I	3.4	3	
	13	Hd.	WI	+0.022		+0.76	I	2.9	2½	
	21	Hd.	WI	+0.021		+0.44	I	3.4	3	
	23	Fn.	WI	+0.035		+1.28	I	3.4	2½	
	25	Hd.	WI	+0.010		+0.39	I	2.9	2½	
Nov.	5	Wy.	EI	+0.020		----	I	3.4	2	
1916										
Feb.	*20*	*Fn.*	*WI*	*+0.039*	*−0.23*	*−0.23*	*0*	---	*3½*	
Mar.	*10*	*Wy.*	*WI*	*−0.001*	*−0.33*	*−0.30*	*0*	---	*3½*	
Aug.	21	Wy.	EI	+0.029		−0.72	I	3.4	2½	
Sept.	11	Hd.	WI	−0.014		+0.04	I	2.9	2	
	19	Hd.	EI	−0.007		+0.05	I	2.9	2	
	25	Wy.	EI	−0.002		+0.42	I	3.4	2	
	26	Hd.	EI	+0.010		−0.07	I	2.9	2	
	28	Wy.	WI	+0.036		+0.17	I	---	2½	
Oct.	6	Wy.	WI	+0.033		+0.03	I	3.4	3	
	10	Fn.	WI	+0.052		+0.19	I	3.4	2	
	12	Hd.	WI	+0.005		+0.62	I	2.9	2	
	17	Fn.	WI	+0.040		0.00	0	---	2½	
	23	Wy.	WI	+0.022		−0.10	I	3.4	2½	
	24	Hd.	WI	+0.005		+0.38	I	2.9	2½	
	26	Wy.	EI	+0.017		+0.22	II	3.6	2½	
	27	Hd.	EI	+0.029		−0.08	I	2.9	2	
	31	Fn.	EI	+0.014		−0.32	0	---	2½	
Nov.	3	Fn.	EI	+0.031		----	0	---	2	
	7	Wy.	EI	+0.030		+0.27	I	---	4	
	9	Wy.	EI	+0.015		+0.14	I	3.4	3½	
	10	Fn.	EI	+0.018		+0.55	I	---	2½	
	16	Wy.	WI	+0.024		−0.27	I	---	2½	
	27	*Wy.*	*WI*	*+0.003*	*+0.44*	*+0.46*	*I*	---	*2*	
Dec.	*7*	*Fn.*	*EI*	*+0.037*	*+0.35*	*+0.36*	*0*	---	*3*	
	8	*Hd.*	*EI*	*−0.003*	*−0.16*	*−0.16*	*I*	---	*2*	
	19	*Hd.*	*WI*	*+0.057*	----	----	*0*	---	*2*	
	26	*Fn.*	*WI*	*−0.027*	*−0.63*	*−0.60*	*0*	---	*3½*	
	29	*Hd.*	*WI*	*−0.019*	*+0.17*	*+0.18*	*0*	---	*2½*	
1917										
Jan.	*8*	*Wy.*	*EI*	*+0.027*	*−1.08*	*−1.05*	*0*	---	*3*	
	12	*Fn.*	*EI*	*+0.025*	*−0.59*	*−0.56*	*0*	---	*3½*	
	19	*Hd.*	*EI*	*+0.059*	*−0.53*	*−0.50*	*0*	---	*3*	
Mar.	*21*	*Fn.*	*EI*	*+0.106*	----	----	*0*	---	*3½*	
	29	*Fn.*	*WI*	*+0.100*	----	----	*0*	---	*4*	
Apr.	*9*	*Fn.*	*WI*	*+0.124*	*−0.13*	*−0.12*	*0*	---	*3½*	
	15	*Fn.*	*WI*	*+0.012*	*+1.23*	*+1.23*	*0*	---	*3½*	
Sept.	4	Fn.	EII	+0.041		+0.98	I	3.4	2½	
	6	Wy.	EII	−0.008		----	I	3.4	3	
	11	Fn.	EII	+0.057		+0.76	I	---	2	
	13	Hd.	EII	+0.006		+0.16	I	2.9	3	
	17	Hd.	EII	+0.029		+0.48	I	2.9	2	

				s	"	"				
1917										
Sept.	18	Wy.	EII	+0.019		−0.28	I	3	4	2
	20	Hd.	WII	+0.036		+0.37	I	3	4	3
Oct.	2	Fn.	WII	−0.007		+0.75	I	3	4	2
	4	Hd.	WII	+0.019		+0.56	I	3	4	2
	11	Hd.	EII	+0.009		+0.63	I	3	4	2
	15	Fn.	EII	+0.016		−0.11	I	3	4	2½
	22	Hd.	EII	+0.036		+0.50	I	2	9	3
	25	Hd.	EII	+0.006		−0.02	I	3	4	2½
Nov.	2	Fn.	EII	+0.072		+0.19	0	---		3
Dec.	*26*	*Hd.*	*EII*	*+0.043*	----	----	*0*	---		*3*
1918										
Jan.	*12*	*Wy.*	*EII*	*−0.008*	----	----	*0*	---		---
Feb.	*26*	*Hd.*	*EII*	*+0.135*	*−0.50*	*−0.48*	*0*	---		*3*
Mar.	*7*	*Wy.*	*EII*	*+0.045*	*+0.05*	*+0.05*	*0*	---		*3*
	10	*Hd.*	*WII*	*−0.001*	*−0.39*	*−0.36*	*0*	---		*3½*
	24	*Fn.*	*WII*	*+0.001*	*−0.40*	*−0.39*	*0*	---		*3½*
	25	*Wy.*	*WII*	*+0.130*	*−0.65*	*−0.63*	*0*	---		*4*
Apr.	*4*	*Fn.*	*EII*	*+0.028*	*−0.84*	*−0.83*	*0*	---		*3*
	15	*Wy.*	*EII*	-----	*+0.47*	*+0.45*	*0*	---		*3½*
May	*1*	*Fn.*	*EII*	*+0.034*	*+0.98*	*+0.97*	*0*	---		*3*
	5	*Fn.*	*EII*	*+0.015*	*+0.68*	*+0.67*	*0*	---		*3*
Aug.	8	Wy.	WII	+0.043		+0.93	I	3	9	2½
Mean------		1914.73		+0.024		+0.33				
		1914.78								
Corr----------				−0.081		−0.25				

G Cephei [1]

				h	m	s	°	′	″			
1911												
July	14	Hd.	WII	21	9	30.842	+59	36	58.38	0	---	---
	15	R.	WII			30.731			58.63	0	---	1
	22	R.	EII			30.871			58.53	0	5.0	2½
	24	Fn.	EII			30.799			58.60	0	---	---
1915												
July	9	Fn.	WI			30.708			58.13	0	6.0	2½
	14	An.	WI			30.771			-----	0	---	3
	17	An.	WI			30.779			58.41	0	6.0	2
	22	Fn.	EI			30.858			57.98	0	---	2
	23	Hd.	EI			30.794			58.35	0	6.0	3
Mean------		1913.77		21	9	30.795	+59	36	58.38			
		1913.55										
Corr----------						−0.081			−0.32			

Weisse$_1$ XXI 140

				h	m	s	°	′	″			
1912												
Oct.	5	Hd.	EII	21	10	19.272	−5	55	27.89	0	---	2
	11	Hd.	WII			19.282			28.02	0	7.0	3
	15	Hd.	WII			19.246			28.11	0	7.0	3
	26	Fn.	EII			19.253			28.07	0	7.3	2½
1914												
July	20	Fn.	EI			19.277			28.35	0	7.5	3
	28	Hd.	EI			19.266			27.81	0	7.0	3
	31	Fn.	EI			19.278			27.88	0	7.0	2½
Aug.	13	Hd.	WI			19.302			27.57	0	7.0	2
	14	Wy.	WI			19.289			28.17	0	7.0	3
Mean------		1913.79		21	10	19.274	−5	55	27.99			
Corr----------						−0.081			−0.16			

τ Cygni [1]

				h	m	s	°	′	″			
				21	11	11.943	+37	39	40.66			
1911												
Sept.	11	Fn.	WII			+0.007			−0.45	I	3.7	1½
	12	Hd.	WII			+0.011			−0.35	I	3.4	3
	26	Hd.	EII			+0.006			−1.35	I	2.9	3
	29	Hd.	EII			−0.013			+0.08	I	3.1	3
1914												
Oct.	2	Wy.	WI			−0.003			-----	I	3.9	2
	9	Hd.	WI			−0.002			-----	I	3.4	2
	12	Hd.	WI			−0.016			-----	I	2.9	2
	23	Fn.	EI			+0.020			-----	I	3.4	2½

				s	"	"				
1915										
July	24	An.	EI	+0.044		+0.47	I	---		1½
	31	An.	EI	+0.069		----	I	---		3
Aug.	17	An.	WI	+0.029		+1.09	I	4	9	2½
	19	Fn.	WI	+0.019		+0.41	I	3	9	1½
	31	Wy.	WI	−0.003		----	0	---		2½
Sept.	13	Hd.	EI	+0.024		+0.34	I	3	4	2
Oct.	11	Fn.	WI	+0.003		----	I	3	9	2½
1916										
Dec.	*19*	*Hd.*	*WI*	*+0.023*	----	----	*0*	---		*2*
1917										
Sept.	6	Wy.	EII	−0.036		----	I	---		3
1918										
Jan.	*12*	*Wy.*	*EII*	*−0.016*	----	----	*0*	---		---
Mean------		1914.58		+0.010		+0.03				
		1913.68								
Corr----------				−0.081		−0.27				

α Equulei

				h	m	s	°	′	″			
				21	11	19.524	+4	52	30.79			
1912												
Aug.	7	Fn.	EII			+0.002			+0.06	I	4.5	3
	12	Fn.	EII			+0.033			−0.11	I	3.9	2½
Sept.	12	R.	WII			+0.029			----	I	3.9	1
	14	R.	WII			+0.048			+0.19	I	3.9	1½
	20	Hd.	WII			+0.061			+0.73	I	3.9	3
1914												
Aug.	18	Wy.	WI			+0.053			−0.18	I	3.9	2½
	22	An.	WI			+0.047			−0.08	I	4.4	2
	30	Wy.	WI			+0.075			−0.42	I	3.4	2½
Sept.	10	An.	EI			+0.048			−0.37	I	3.9	1½
	13	Wy.	EI			+0.041			+0.48	I	3.4	2½
	18	An.	EI			+0.038			−0.54	0	---	2½
	19	Wy.	EI			+0.044			+0.38	I	3.9	2½
Mean------		1913.84				+0.043			+0.01			
		1913.94										
Corr----------						−0.081			−0.19			

Weisse$_2$ XXI 212

				h	m	s	°	′	″			
1911												
Aug.	21	Fn.	EII	21	11	58.575	+25	3	33.79	0	6.9	2
Sept.	2	R.	WII			58.576			33.71	0	6.5	1½
	6	R.	WII			58.558			33.78	0	6.5	1
	25	Fn.	EII			58.569			34.04	0	6.4	2½
1915												
June	22	Wy.	EI			58.573			34.75	0	7.0	3
	28	Wy.	EI			58.591			34.13	0	7.0	2
July	13	Fn.	WI			58.641			33.71	0	7.5	3½
Aug.	21	Wy.	WI			58.579			34.11	0	7.5	3
Mean------		1913.61		21	11	58.583	+25	3	34.00			
Corr----------						−0.081			−0.24			

4 Piscis Australis

				h	m	s	°	′	″			
1912												
Oct.	3	Hd.	EII	21	12	29.087	−32	32	57.21	0	6.0	3½
	4	Hd.	EII			29.083			56.52	0	6.0	3
	9	Hd.	WII			29.084			57.12	0	6.0	3
	10	Hd.	WII			29.120			56.72	0	6.0	4
1914												
Sept.	4	Fn.	WI			29.039			56.82	0	6.0	3
	5	Wy.	WI			29.104			56.91	I	5.4	3
	14	Fn.	EI			29.147			56.58	0	---	3½
	21	Hd.	EI			29.094			56.51	I	4.9	3
Mean------		1913.73		21	12	29.095	−32	32	56.80			
Corr----------						−0.081			+0.08			

[1] Double; mean observed.

Bradley 2765

				h	m	s	°	′	″			
1911												
July	31	Fn.	WII	21	12	54.584	−18	21	46.14	0	---	--
Aug.	6	R.	WII			54.584			45.70	0	5.5	1
	9	Fn.	EII			54.563			45.44	0	---	--
	10	R.	EII			54.632			45.08	0	5.0	1
1915												
Aug.	9	Fn.	EI			54.631			45.46	0	6.0	3
	10	An.	EI			54.560			45.65	0	6.0	3
	26	Hd.	WI			54.626			45.75	0	---	2
Sept.	1	Hd.	WI			54.646			45.84	0	---	3
Mean		1913.62		21	12	54.603	−18	21	45.63			
Corr						−0.081			−0.09			

σ Cygni

				h	m	s	°	′	″			
				21	13	52.818	+39	1	2.01			
1911						s	″		″			
July	26	R.	WII			−0.069			−0.46	I	3.9	1½
	27	Fn.	WII			−0.055			−0.29	I	4.2	1½
Aug.	16	Fn.	EII			+0.003			−0.51	I	4.2	2½
	18	Fn.	EII			−0.004			−0.93	I	3.9	--
1914												
Sept.	25	Wy.	EI			+0.010			----	I	4.4	3
Oct.	2	Wy.	WI			−0.050			−0.78	I	3.9	2
	5	Wy.	WI			−0.002			−0.41	I	4.4	2½
	9	Hd.	WI			+0.013			----	I	3.9	2
	23	Fn.	EI			+0.008			----	I	3.9	2½
1915												
Aug.	14	Wy.	EI			−0.013			−1.01	I	4.4	2
	23	Wy.	WI			+0.039			−0.24	0	4.5	2
	25	Wy.	WI			+0.023			−0.13	I	4.9	3
	31	Wy.	WI			−0.012			----	0	---	3
Sept.	3	Hd.	WI			+0.019			----	0	---	2
	7	Wy.	WI			+0.003			----	I	4.4	2
	10	Hd.	WI			+0.013			----	I	3.4	2
	16	Wy.	EI			−0.010			−0.97	I	4.4	2
	20	Hd.	EI			+0.007			----	I	4.4	2
Oct.	11	Fn.	WI			−0.027			----	0	5.0	2
	21	Hd.	WI			−0.003			----	I	3.9	2
	25	Hd.	WI			−0.013			----	I	4.4	2
1916												
Aug.	21	Wy.	EI			+0.018			−0.85	I	4.4	2½
Sept.	11	Hd.	WI			-----			+0.66	I	3.9	2½
	19	Hd.	EI			−0.041			−0.55	I	3.9	2
	28	Wy.	WI			+0.023			−0.56	0	---	3
Dec.	*19*	*Hd.*	*WI*			*−0.001*	----		----	*0*	---	*2*
1917												
Jan.	*8*	*Wy.*	*EI*			*−0.017*	----		----	*0*	---	*3½*
Sept.	6	Wy.	EII			−0.029			----	0	---	3
Mean		1915.06				−0.006			−0.50			
		1914.67										
Corr						−0.081			−0.27			

Weisse$_1$ XXI 256

				h	m	s	°	′	″			
1912												
Sept.	28	R.	EII	21	14	30.595	+10	49	25.27	0	5.5	1½
	29	R.	EII			30.591			25.13	0	6.5	2½
Oct.	2	R.	EII			30.589			25.78	0	5.5	2½
	8	Hd.	WII			30.593			26.83	0	---	3
	11	Hd.	WII			30.599			26.13	0	6.0	2
1914												
Sept.	1	An.	WI			30.588			25.79	0	6.5	3
	8	Wy.	EI			30.593			25.53	0	6.5	2½
	9	Fn.	EI			30.571			25.27	0	6.0	2½
	28	Hd.	WI			30.584			25.86	0	6.0	2
	29	Wy.	WI			30.590			26.39	0	6.5	2½
Mean		1913.73		21	14	30.589	+10	49	25.80			
Corr						−0.081			−0.21			

Bradley 2775

				h	m	s	°	′	″			
1912												
Sept.	10	R.	EII	21	15	5.749	+43	34	1.49	I	4.4	1½
	12	R.	WII			5.803			0.60	I	4.4	1
	14	R.	WII			5.785			1.04	I	4.9	1
	27	Hd.	EII			5.728			0.82	0	5.5	3
1914												
July	28	Hd.	EI			5.836			0.33	0	5.5	2½
	31	Fn.	EI			5.786			0.38	0	5.5	1½
Aug.	13	Hd.	WI			5.792			1.42	I	4.9	2
	14	Wy.	WI			5.804			1.22	0	5.5	--
Mean		1913.65		21	15	5.785	+43	34	0.91			
Corr						−0.081			−0.28			

B. D.+37° 4271

				h	m	s	°	′	″			
1911												
July	14	Hd.	WII	21	15	46.828	+37	51	25.61	0	6.5	2
	15	R.	WII			46.822			25.93	0	5.5	1
	22	R.	EII			46.903			25.54	0	5.0	--
	24	Fn.	EII			46.866			25.86	0	5.8	--
1915												
Aug.	19	Fn.	WI			46.813			25.17	0	6.0	2
	21	Wy.	WI			46.844			25.84	0	6.5	3
	31	Wy.	WI			46.805			25.94	0	---	3
Sept.	14	Wy.	EI			46.806			25.21	0	6.0	2
	15	Hd.	EI			46.825			25.82	0	6.0	2
Mean		1913.84		21	15	46.835	+37	51	25.66			
Corr						−0.081			−0.27			

α Cephei

				h	m	s	°	′	″				
				21	16	26.112	+62	12	14.76				
1911													
Sept.	18	Fn.	WII			−0.04			+0.31	I	2.2	1½	
	20	R.	WII			----			+0.55	II	1.6	2½	
Nov.	13	Hd.	EII			+0.03			+0.82	I	2.9	2	
	16	Hd.	EII			−0.06			+0.22	I	2.1	2	
	18	Hd.	EII			−0.05			−0.37	I	2.7	3	
	21	R.	EII			----			+0.28	II	3.9	2	
	22	R.	EII			−0.04			+0.06	II	2.6	1	
Dec.	1	Hd.	WII			−0.12			+0.19	I	2.9	2	
	4	R.	WII			+0.03			+0.31	II	---	3	
	5	R.	WII			−0.06			+0.25	I	---	2½	
1913													
Aug.	7	R.–Fn.	WII			----			+0.01	II	---	2	R.
	7	R.–Fn.	WII			----			+0.50	II	2.6	2	
	14	R.–Fn.	WII			----			−0.43	I	---	1½	R.
	14	R.–Fn.	WII			----			+0.30	II	2.1	1½	
	15	Fn.–R.	WII			----			−0.08	I	---	2	R.
	15	Fn.–R.	WII			----			+0.35	I	2.2	2	
	16	Fn.–R.	WII			----			−0.31	I	---	2½	R.
	16	Fn.–R.	WII			----			+0.23	I	2.7	2½	
	17	R.–Fn.	WII			----			−0.35	I	---	2½	R.
	17	R.–Fn.	WII			----			+0.58	II	2.6	2	
	20	R.–Fn.	EII			----			+0.42	II	---	2	R.
	20	R.–Fn.	EII			----			+0.15	II	2.1	1½	
	25	R.–Fn.	EII			----			+0.61	II	---	2½	R.
	25	R.–Fn.	EII			----			−0.16	II	1.6	2½	
Sept.	4	Fn.–R.	EII			----			+0.09	I	---	2	R.
	4	Fn.–R.	EII			----			+0.91	I	1.9	2	
1915													
July	9	Fn.	WI			−0.05			−0.41	I	2.9	2½	
	17	An.	WI			−0.03			+0.74	I	2.4	2	
	22	Fn.	EI			+0.01			----	I	2.9	2	
	23	Hd.	EI			0.00			−0.18	II	2.6	3	
1916													
Sept.	25	Wy.	EI			0.00			+0.02	II	2.6	2	
	26	Hd.	EI			−0.03			+0.55	II	2.6	2	
Oct.	6	Wy.	WI			+0.03			+0.25	I	3.4	3½	
	10	Fn.	WI			+0.04			−0.07	I	2.9	2	
	12	Hd.	WI			−0.06			+0.63	II	2.6	2	
	17	Fn.	WI			−0.06			+0.24	I	2.9	2½	
	23	Wy.	WI			−0.01			+0.50	I	3.4	2½	
	24	Hd.	WI			−0.02			+0.06	II	2.6	2	

				s	″	″			
1916									
Oct.	26	Wy.	EI	−0.13		+0.45	I	2.4	2½
	27	Hd.	EI	−0.04		+0.68	I	---	2
Nov.	7	Wy.	EI	−0.07		+0.50	I	3.4	3
	9	Wy.	EI	−0.11		+0.83	I	3.4	3
	10	Fn.	EI	−0.02		+0.15	I	3.4	2½
	16	Wy.	WI	−0.06		+0.09	I	2.9	2½
	20	Fn.	WI	−0.06		+0.60	0	---	2½
	24	Fn.	WI	−0.13		−0.10	I	2.9	3
	27	*Wy.*	*WI*	*−0.01*	*+0.47*	*+0.40*	*I*	---	*2*
Dec.	*7*	*Fn.*	*EI*	*−0.02*	*+0.67*	*+0.64*	*0*	---	*2½*
	8	*Hd.*	*EI*	*−0.07*	*+0.12*	*+0.12*	*I*	---	*2*
	19	*Hd.*	*WI*	*−0.05*	*+0.49*	*+0.42*	*I*	---	*2*
1917									
Jan.	*8*	*Wy.*	*EI*	*−0.03*	*+0.98*	*+0.91*	*0*	---	*3*
	12	*Fn.*	*EI*	*−0.08*	*+0.40*	*+0.31*	*0*	---	*3½*
	18	*Fn.*	*EI*	*−0.04*	*+0.50*	*+0.45*	*0*	---	*3½*
	19	*Hd.*	*EI*	*+0.08*	*−0.52*	*−0.61*	*0*	---	*3*
Mar.	*5*	*Fn.*	*WI*	*−0.06*	*+0.31*	*+0.18*	*0*	---	*3½*
	18	*Fn.*	*EI*	*−0.12*	*+0.35*	*+0.25*	*0*	---	*3½*
	25	*Wy.*	*WI*	*+0.20*	*+1.83*	*+1.78*	*0*	---	*4*
Apr.	*9*	*Fn.*	*WI*	*+0.08*	*+0.62*	*+0.60*	*0*	---	*3½*
	15	*Fn.*	*WI*	*−0.04*	*+1.23*	*+1.23*	*0*	---	*3½*
	22	*Wy.*	*EI*	*−0.05*	*+0.26*	*+0.30*	*0*	---	*3½*
Sept.	11	Fn.	EII	−0.07		+0.23	I	2.4	2
	13	Hd.	EII	−0.03		+0.46	I	3.4	2
	17	Hd.	EII	−0.04		−0.21	I	---	2
	18	Wy.	EII	0.00		+0.27	I	2.4	2
	20	Hd.	WII	−0.04		+0.55	I	2.9	3
Oct.	2	Fn.	WII	−0.10		−0.26	I	---	2
	4	Hd.	WII	−0.03		+0.59	II	3.1	2
	15	Fn.	EII	−0.02		+0.28	I	2.4	2½
	22	Hd.	EII	−0.06		+0.23	II	3.1	3
	25	Hd.	EII	−0.03		+0.22	I	3.4	2
	26	Fn.	EII	−0.08		−0.09	I	3.4	3
Nov.	2	Fn.	EII	−0.03		+0.19	0	---	3
1918									
Jan.	*17*	*Fn.*	*EII*	*−0.07*	*+0.05*	*−0.13*	*0*	---	*3½*
Feb.	*17*	*Fn.*	*EII*	*−0.03*	*+0.05*	*−0.07*	*0*	---	*3½*
	20	*Fn.*	*EII*	*+0.10*	*+0.83*	*+0.65*	*0*	---	*3½*
	26	*Hd.*	*EII*	*+0.17*	*0.00*	*−0.05*	*0*	---	*3*
Mar.	*7*	*Wy.*	*EII*	*+0.04*	*−0.27*	*−0.28*	*0*	---	*3½*
	10	*Hd.*	*WII*	*0.00*	*+1.03*	*+0.94*	*0*	---	*3½*
	17	*Wy.*	*WII*	*+0.03*	*−0.05*	*−0.06*	*0*	---	*3½*
	24	*Fn.*	*WII*	*−0.07*	*+0.03*	*−0.01*	*0*	---	*3½*
	25	*Wy.*	*WII*	*+0.12*	*−0.77*	*−0.84*	*0*	---	*4*
	27	*Fn.*	*WII*	*+0.05*	*+0.81*	*+0.77*	*0*	---	*3½*
Apr.	*1*	*Fn.*	*EII*	*−0.13*	*+0.64*	*+0.64*	*0*	---	*3½*
	4	*Fn.*	*EII*	*−0.01*	*+0.16*	*+0.11*	*0*	---	*3*
	14	*Fn.*	*EII*	*−0.11*	*−0.01*	*+0.01*	*0*	---	*3½*
	15	*Wy.*	*EII*	*−0.02*	*+0.41*	*+0.44*	*0*	---	*3½*
May	*1*	*Fn.*	*EII*	*−0.02*	*+1.22*	*+1.26*	*0*	---	*3*
	5	*Fn.*	*EII*	*−0.17*	*+0.03*	*+0.06*	*0*	---	*3*
Aug.	8	Wy.	WII	+0.05		+0.63	I	3.4	2½
Mean			1916.05	−0.039		+0.28			
			1915.65						
Corr				−0.081		−0.32			

α Cephei s. p.

	h	m	s	°	′	″
	21	16	-----	+62	12	14.65

				s	″			
1911								
Nov.	12	Hd.	EII	-----	−1.1	0	---	5
	15	Hd.	EII	-----	+2.0	0	---	5
	16	Hd.	EII	-----	−1.3	I	---	4
	21	R.	EII	-----	−0.9	0	---	5
	22	Fn.	EII	-----	+0.9	0	---	4½
	26	Hd.	WII	-----	+0.2	0	---	--
Dec.	4	R.	WII	-----	−0.5	I	---	--
	5	R.	WII	-----	+0.7	0	---	--
1912								
Nov.	8	Hd.	WII	-----	+0.5	0	---	5
Dec.	12	R.	EII	-----	−3.6	I	---	--
1913								
Mar.	28	Fn.	EII	-----	−0.2	0	---	3½
	29	Hd.	EII	-----	−0.5	0	---	4
Nov.	5	R.	EI	-----	−0.2	II	---	--

				s	″			
1913								
Nov.	6	Hd	EI	-----	−0.1	I	---	3½
	10	Hd.	WI	-----	−0.6	I	---	5
	18	Fn.	WI	-----	−1.4	0	---	4
	24	Hd.	WI	-----	−1.2	I	---	4
Dec.	11	Hd.	EI	-----	−1.4	0	---	4½
1914								
Mar.	14	Hd.	WI	-----	−1.3	0	---	5
	23	Fn.	EI	-----	−0.2	0	---	4
	26	Fn.	EI	-----	+0.9	0	---	4½
Apr.	3	Wy.	WI	-----	+0.4	0	---	4
	9	Fn.	WI	-----	+1.4	0	---	4
	21	Hd.	EI	-----	+0.3	I	---	3
Nov.	12	Wy.	WI	-----	−1.7	0	---	5
1915								
Apr.	7	An.	EI	-----	+1.9	I	---	4
	8	Hd.	EI	-----	+3.2	I	---	4
	21	An.	WI	-----	0.0	0	---	3½
Mean			1913.46	-----	−0.14			
Corr				-----	+0.86			

Groombridge 3434

				h	m	s	°	′	″			
1912												
Aug.	23	Fn.	WII	21	16	47.123	+52	40	36.20	0	6.9	2
	24	R.	WII			47.102			36.52	0	6.5	1
Sept.	6	Hd.	EII			47.086			37.35	0	6.5	3
	9	Hd.	EII			47.081			36.93	0	6.5	2
1914												
July	20	Fn.	EI			47.100			35.77	0	7.0	3
	22	Fn.	EI			47.080			37.51	0	6.5	2
Aug.	15	Fn.	WI			47.072			36.64	0	6.5	2½
	17	Fn.	WI			47.086			36.18	0	6.0	2
Mean			1913.63	21	16	47.091	+52	40	36.64			
Corr						−0.081			−0.30			

ι Capricorni

	h	m	s	°	′	″
	21	17	14.249	−17	13	5.80

				s	″			
1912								
July	30	R.	WII	+0.008	−0.81	0	---	3½
Aug.	6	R.	EII	+0.031	−0.40	0	5.5	3
	10	R.	EII	+0.059	----	I	4.4	1½
	15	R.	WII	+0.045	−1 00	0	---	5
	20	R.	WII	+0.068	−0.02	I	---	1
1914								
Aug.	7	Hd.	EI	+0.060	+0.10	I	---	2
	18	Wy.	WI	+0.053	+0.32	I	4.3	3
	20	Fn.	WI	+0.056	−0.59	0	5.0	3
Sept.	10	An.	EI	+0.090	−0.22	0	---	3
	13	Wy.	EI	+0.021	+0.69	I	3.9	3
Mean			1913.63	+0.049	−0.21			
			1913.74					
Corr				−0.081	−0.10			

Lalande 41508

				h	m	s	°	′	″			
1911												
Aug.	21	Fn.	EII	21	17	30.578	+3	57	44.01	0	6.7	2
	22	R.	EII			30.568			43.44	0	7.0	1
Sept.	1	Fn.	WII			30.611			43.14	0	7.3	1½
	2	R.	WII			30.600			43.58	0	---	--
	6	R.	WII			30.548			44.07	0	6.5	1
1915												
June	28	Wy.	EI			30.592			44.06	0	7.0	2
July	6	Fn.	WI			30.534			44.04	0	7.0	2½
	8	Hd.	WI			30.601			44.03	0	7.0	3
	24	An.	EI			30.600			44.46	0	7.0	2½
Mean			1913.38	21	17	30.581	+3	57	43.87			
Corr						−0.081			−0.19			

Groombridge 3548

				h	m	s	°	′	″			
1911												
Sept.	11	Fn.	WII	21	17	38.31	+86	39	57.38	0	---	1½
	12	Hd.	WII			37.99			57.61	0	7.5	3
	25	Fn.	EII			37.92			57.84	0	7.4	3½
	26	Hd.	EII			37.50			57.74	0	7.5	3
1915												
Aug.	10	An.	EI			-----			59.00	0	8.0	2½
	23	Wy.	WI			37.90			57.40	0	8.0	3
Sept.	1	Hd.	WI			38.22			57.72	0	---	2
	13	Hd.	EI			38.63			57.93	0	7.5	2
Mean		1913.41		21	17	38.07	+86	39	57.83			
		1913.69										
Corr						−0.08			−0.40			

Groombridge 3548 s. p.

				h	m	s	°	′	″			
1912												
Apr.	9	Hd.	WII	21	17	37.76	+86	39	56.79	0	7.5	4
	10	R.	WII			37.46			57.13	0	7.5	2
	11	Fn.	EII			37.90			57.08	0	8.2	3½
	19	Hd.	EII			36.89			56.90	0	7.5	4
1915												
Nov.	17	Fn.	WI			38.16			56.66	0	8.0	3
	24	Wy.	EI			38.45			57.36	0	7.5	3
	27	Wy.	EI			38.39			57.12	0	7.5	2½
Dec.	6	Hd.	WI			38.44			57.12	0	7.5	3
Mean		1914.09		21	17	37.93	+86	39	57.02			
Corr						−0.08			+0.43			

1 Pegasi

				h	m	s	°	′	″			
				21	17	55.474	+19	25	8.76			
1912												
July	26	R.	WII			+0.018			+0.38	I	---	3½
	27	Fn.	WII			−0.023			−0.43	0	4.2	2½
Aug.	3	R.	EII			+0.018			+0.12	I	4.4	2½
	5	Fn.	EII			−0.007			+0.04	I	4.0	2
1914												
Aug.	3	Fn.	EI			+0.021			−0.25	0	---	2½
	4	Wy.	EI			−0.027			−0.45	0	---	2½
	22	Fn.	WI			+0.015			+0.42	I	4.4	2
	30	Wy.	WI			+0.042			+0.64	I	3.9	2½
	31	Fn.	WI			+0.043			+0.49	I	3.9	2
Mean		1913.72				+0.011			+0.11			
Corr						−0.081			−0.23			

Bradley 2781

				h	m	s	°	′	″			
1911												
July	31	Fn.	WII	21	19	16.549	−13	15	53.45	0	5.8	--
Aug.	6	R.	WII			16.543			53.02	0	5.5	1
	10	R.	EII			16.566			53.04	0	5.5	1
	15	R.	EII			16.599			53.24	0	5.0	3
1915												
Aug.	26	Hd.	WI			16.551			53.32	0	---	2
Sept.	3	Hd.	WI			16.605			53.64	0	6.5	2½
	14	Wy.	EI			16.585			52.83	0	6.0	2½
	15	Hd.	EI			16.598			52.61	0	6.0	2½
Mean		1913.64		21	19	16.574	−13	15	53.14			
Corr						−0.081			−0.12			

Bradley 2784

				h	m	s	°	′	″			
1912												
Aug.	27	R.	WII	21	20	35.401	−3	56	36.10	0	5.5	3½
	29	R.	WII			35.414			35.48	0	5.5	4
Sept.	6	Hd.	EII			35.472			35.68	0	5.8	3
	9	Hd.	EII			35.446			35.54	0	6.0	2
1914												
July	28	Hd.	EI			35.413			35.62	0	6.0	3
	31	Fn.	EI			35.431			35.82	0	6.0	2½
Aug.	13	Hd.	WI			35.437			34.95	0	5.8	2
	14	Wy.	WI			35.471			36.07	0	6.0	2½
Mean		1913.64		21	20	35.436	−3	56	35.66			
Corr						−0.081			−0.16			

ζ Capricorni

				h	m	s	°	′	″			
				21	21	31.880	−22	48	5.64			
1911												
July	24	Fn.	EII			+0.081			+0.45	0	---	--
	26	R.	WII			+0.038			−0.06	I	3.4	3
	27	Fn.	WII			+0.026			−0.05	I	3.9	2½
Aug.	9	Fn.	EII			−0.005			−0.03	I	4.1	4
1915												
June	28	Wy.	EI			+0.095			+0.47	I	3.9	3
July	8	Hd.	WI			+0.060			−0.67	I	4.4	3
	9	Fn.	WI			+0.007			−1.72	0	---	3
	22	Fn.	EI			+0.054			−0.10	0	---	3
Mean		1913.55				+0.044			−0.21			
Corr						−0.081			−0.05			

69 Cygni

				h	m	s	°	′	″			
1915												
Aug.	31	Wy.	WI	21	22	6.346	+36	16	-----	0	---	2½
Sept.	7	Wy.	WI			6.341			-----	0	6.0	2
	10	Hd.	WI			6.327			-----	0	6.0	2
	16	Wy.	EI			6.335			-----	0	5.5	2
	20	Hd.	EI			6.317			-----	0	6.0	2
Oct.	25	Hd.	WI			6.318			-----	0	6.0	2
	28	Hd.	EI			6.374			-----	0	6.0	2
1916												
Sept.	28	Wy.	WI			6.330			-----	0	6.5	3
Oct.	17	Fn.	WI			6.301			-----	0	6.0	2½
	31	Fn.	EI			6.339			-----	0	6.5	3
Mean		1916.05		21	22	6.333	+36	16	-----			
Corr						−0.081			-----			

Weisse$_2$ XXI 466

				h	m	s	°	′	″			
1912												
Aug.	10	R.	EII	21	22	15.809	+18	59	6.98	0	7.0	1
	12	Fn.	EII			15.806			6.73	0	---	2
	20	R.	WII			15.867			6.80	0	7.0	1
	23	Fn.	WII			15.826			6.58	0	6.5	2
1914												
July	20	Fn.	EI			15.843			6.70	0	6.0	2½
	22	Fn.	EI			15.826			6.98	0	6.5	2
Aug.	17	Fn.	WI			15.809			7.19	0	6.5	2
	18	Wy.	WI			15.832			7.36	0	6.5	2½
Mean		1913.61		21	22	15.827	+18	59	6.92			
Corr						−0.081			−0.23			

b Capricorni

				h	m	s	°	′	″			
1911												
Sept.	29	Hd.	EII	21	23	35.743	−22	11	59.27	I	3.9	3
	30	R.	EII			35.696			58.41	I	---	1
Oct.	11	Hd.	WII			35.665			57.36	0	5.5	3½
	13	Hd.	WII			35.682			57.07	0	5.5	3
1915												
July	13	Fn.	WI			35.683			58.99	0	5.0	3½
	17	An.	WI			35.749			58.19	I	5.9	3½
	24	An.	EI			35.728			57.60	I	5.4	3
Aug.	9	Fn.	EI			35.699			58.87	0	---	3
	21	Wy.	WI			35.775			58.68	0	---	3½
Mean		1913.88		21	23	35.713	−22	11	58.27			
Corr						−0.081			−0.06			

Bradley 2793

			h m s	° ′ ″			
1912							
Aug. 31	R.	WII	21 23 42.097	+27 12 58.78	0	---	2½
Sept. 10	R.	EII	42.038	58.51	0	5.5	1½
12	R.	WII	42.069	59.10	I	4.9	1
27	Hd.	EII	42.035	59.20	0	---	--
28	R.	EII	42.067	59.49	0	---	2
1914							
Aug. 3	Fn.	EI	42.057	58.91	0	6.0	2
6	Fn.	EI	42.058	58.28	0	6.0	2
13	Hd.	WI	42.067	59.19	0	6.0	2
15	Fn.	WI	42.073	58.74	0	6.0	2
Mean	1913.55		21 23 42.062	+27 12 58.91			
Corr			−0.081	−0.24			

B. D.+7° 4696

			h m s	° ′ ″			
1911							
Aug. 16	Fn.	EII	21 23 58.687	+7 48 13.62	0	6.8	2
18	Fn.	EII	58.640	13.95	0	6.7	2
Sept. 1	Fn.	WII	------	13.63	0	---	2½
6	R.	WII	58.652	13.71	0	7.0	1
20	R.	WII	58.737	13.52	0	6.0	2
1915							
Sept. 3	Hd.	WI	58.697	13.73	0	6.5	2
7	Wy.	WI	58.707	13.84	0	7.0	2½
13	Hd.	EI	58.713	13.77	0	6.0	2
14	Wy.	EI	58.681	14.09	0	6.5	2
Mean	1913.68		21 23 58.689	+7 48 13.76			
	1913.45						
Corr			−0.081	−0.20			

Piazzi XXI 145

			h m s	° ′ ″			
1912							
July 26	R.	WII	21 24 56.705	−19 32 27.42	0	7.5	4
27	Fn.	WII	56.678	28.17	0	6.5	3
Aug. 5	Fn.	EII	56.701	27.66	0	7.4	2
7	Fn.	EII	56.665	27.55	0	7.1	3
1914							
Aug. 7	Hd.	EI	56.722	27.65	0	---	2
22	An.	WI	56.680	27.83	0	6.5	2½
30	Wy.	WI	56.701	27.94	0	7.0	3½
31	Fn.	WI	56.677	27.86	0	7.0	2½
Sept. 8	Wy.	EI	56.736	27.60	0	7.0	3
Mean	1913.73		21 24 56.696	−19 32 27.74			
Corr			−0.081	−0.08			

g Cygni

			h m s	° ′ ″			
			21 26 7.672	+46 8 36.86			
1911							
Aug. 10	R.	EII	+0.040	−0.15	0	5.0	1
15	R.	EII	+0.033	−0.34	0	5.5	1½
Sept. 13	R.	WII	+0.025	+0.61	I	4.4	1
18	Fn.	WII	+0.007	−0.03	0	---	2
1915							
July 9	Fn.	WI	−0.017	−0.29	0	5.5	2½
23	Hd.	EI	+0.006	−0.09	I	4.9	2
Aug. 16	Fn.	EI	−0.024	−0.12	0	---	2
19	Fn.	WI	+0.021	+0.12	0	6.0	1½
Oct. 11	Fn.	WI	−0.028	----	0	5.0	2
Mean	1913.86		+0.007	−0.04			
	1913.62						
Corr			−0.081	−0.28			

Lalande 41886

			h m s	° ′ ″			
1911							
Aug. 21	Fn.	EII	21 26 21.783	+35 4 38.14	0	7.3	2
22	R.	EII	21.788	38.63	0	7.0	1½
Sept. 11	Fn.	WII	21.741	38.65	0	7.0	1½
12	Hd.	WII	21.767	38.42	0	7.0	2
1915							
Aug. 23	Wy.	WI	21.790	38.09	0	7.5	2
25	Wy.	WI	21.820	38.37	0	---	3
26	Hd.	WI	21.789	38.57	0	---	2
Sept. 15	Hd.	EI	21.763	38.86	0	7.0	2
16	Wy.	EI	21.773	38.25	0	7.0	2½
Mean	1913.89		21 26 21.779	+35 4 38.44			
Corr			−0.081	−0.26			

β Aquarii

			h m s	° ′ ″			
			21 26 49.328	−5 58 3.29			
1911			s	″			
Sept. 26	Hd.	EII	+0.090	+0.35	I	2.7	3½
Oct. 4	Fn.	EII	+0.022	−0.80	I	2.8	4
5	R.	EII	+0.123	----	0	---	4
6	Fn.	EII	+0.075	−0.68	I	---	2
12	R.	WII	+0.020	+0.38	II	2.6	2½
25	R.	WII	+0.016	+0.24	I	2.9	1½
26	R.	WII	+0.077	+0.09	I	2.9	2½
30	R.	EII	+0.081	+0.12	0	---	2
Nov. 7	Fn.	EII	-----	+0.49	I	2.7	3
10	Fn.	EII	+0.071	−0.41	I	2.6	2
11	Fn.	EII	+0.046	−0.68	0	---	--
1912							
Apr. 24	*Fn.*	*EII*	*+0.096*	*+0.91*	*+0.63*	*0*	--- *3½*
July 30	R.	WII	+0.018	+0.20	I	---	3½
Aug. 6	R.	EII	+0.058	+0.03	I	2.9	3
27	R.	WII	+0.025	−0.03	I	2.9	2½
Sept. 6	Hd.	EII	+0.090	+0.20	I	3.7	3½
10	R.	EII	+0.096	+0.41	II	2.6	1½
20	Hd.	WII	+0.052	+0.18	I	2.9	3
27	Hd.	EII	+0.061	----	I	2.9	3
29	R.	EII	+0.046	+0.28	I	3.4	2
Oct. 4	Hd.	EII	+0.062	+0.57	II	2.6	1
5	Hd.	EII	+0.047	−0.36	I	2.9	3
7	Hd.	WII	+0.039	+0.06	I	2.9	3
8	Hd.	WII	+0.038	----	0	---	3
9	Hd.	WII	+0.042	----	I	2.9	2
11	Hd.	WII	+0.053	−0.18	I	2.9	2
15	Hd.	WII	+0.046	−0.14	I	2.9	3
16	Fn.	WII	+0.086	−0.06	I	2.5	1½
26	Fn.	EII	+0.043	+0.20	I	2.7	2½
27	R.	EII	+0.047	+0.93	II	2.6	4
28	Fn.	EII	+0.072	+0.13	I	2.7	1½
1913							
Apr. 7	*Hd.*	*WII*	*+0.084*	*−0.19*	*−0.21*	*0*	--- *3½*
17	*Fn.*	*WII*	*+0.108*	----	----	*0*	--- *3½*
1914							
Mar. 24	*Hd.*	*EI*	*+0.037*	*+0.30*	*+0.28*	*0*	--- *3*
Apr. 2	*Wy.*	*WI*	*+0.121*	*+0.04*	*+0.20*	*0*	--- *3½*
5	*Fn.*	*WI*	*+0.041*	*+0.50*	*+0.47*	*0*	--- *3*
12	*Fn.*	*EI*	*+0.051*	----	----	*0*	--- *3½*
July 22	Fn.	EI	+0.059	+0.33	I	2.9	2
Aug. 8	Wy.	EI	+0.060	−0.31	I	3.4	3
Sept. 16	Wy.	EI	+0.055	+0.23	0	---	3
21	Hd.	EI	−0.026	+0.35	II	2.6	3
22	Wy.	EI	+0.068	+0.70	I	3.4	2½
23	An.	EI	+0.028	−0.78	II	3.6	2½
25	Wy.	EI	+0.054	−0.02	I	3.4	3½
26	An.	EI	+0.033	+0.30	II	3.1	2½
30	An.	WI	+0.054	+0.23	II	3.1	2½
Oct. 1	Hd.	WI	+0.057	+0.68	I	2.9	3
2	Wy.	WI	-----	+0.33	I	3.4	3
5	Wy.	WI	+0.043	−0.10	I	3.4	3
19	Hd.	EI	+0.039	−0.32	I	2.4	3
20	Hd.	EI	−0.004	+0.33	I	2.9	3
1915							
Mar. 30	*An.*	*EI*	*+0.031*	----	----	*0*	--- *3½*
Apr. 12	*Fn.*	*WI*	*+0.007*	*+0.11*	*+0.24*	*0*	--- *3½*
13	*An.*	*WI*	*+0.055*	*−0.21*	*−0.18*	*0*	--- *3½*
14	*Hd.*	*WI*	*+0.086*	----	----	*0*	--- *3½*
15	*Hd.*	*WI*	-- --	*+1.29*	*+1.08*	*0*	--- *3½*
Aug. 14	Wy.	EI	+0.029	+0.30	I	3.9	3
21	Wy.	WI	+0.034	−0.39	I	4.4	3½
31	Wy.	WI	+0.058	−0.72	I	3.4	3½
Sept. 7	Wy.	WI	+0.084	----	II	3.6	3

				s	"	"			
1915									
Sept.	8	Hd.	WI	+0.032		−0.18	I	3.1	2
	9	Wy.	WI	+0.031		+0.15	I	3.4	2½
	10	Hd.	WI	+0.073		+0.03	I	2.9	3
	20	Hd.	EI	+0.068		+0.45	I	3.4	3
	22	Hd.	EI	+0.080		+0.16	II	2.6	2
	24	Wy.	EI	+0.048		−0.08	I	3.4	3
	28	Fn.	EI	+0.070		+0.29	I	---	2½
Oct.	8	Hd.	WI	+0.060		+0.48	I	2.9	3½
	9	Fn.	WI	+0.027		----	I	2.9	3½
	12	Wy.	WI	+0.003		+0.35	I	3.4	3
	13	Hd.	WI	+0.056		+0.31	I	---	3
	21	Hd.	WI	+0.033		+0.62	I	3.4	3
	23	Fn.	WI	+0.080		+0.50	I	2.9	3
	25	Hd.	WI	+0.074		+0.20	I	2.9	2½
	27	Wy.	WI	+0.044		−0.02	I	3.4	3
	28	Hd.	EI	+0.059		+0.19	I	2.9	2
	29	Fn.	EI	+0.033		+0.82	I	3.4	3
1916									
Sept.	19	Hd.	EI	+0.062		+0.65	I	2.9	2
	25	Wy.	EI	+0.060		+0.10	I	3.4	2½
	26	Hd.	EI	+0.072		+0.14	II	3.1	2
	28	Wy.	WI	+0.049		−0.19	I	3.4	3
Oct.	10	Fn.	WI	+0.024		+0.15	I	2.9	2½
	12	Hd.	WI	+0.076		+0.56	I	2.9	3
	17	Fn.	WI	+0.074		−0.30	I	3.4	3
Nov.	7	Wy.	EI	+0.054		−0.17	I	4.4	3
	9	Wy.	EI	+0.064		−0.23	I	3.9	3½
	16	Wy.	WI	+0.077		----	I	3.4	2½
	20	Fn.	WI	+0.068		−0.10	0	---	2
	24	Fn.	WI	+0.042		−0.28	I	3.4	3
	27	Wy.	WI	+0.059		+0.30	I	2.9	2½
Dec.	*8*	*Hd.*	*EI*	*+0.081*	*−0.12*	*−0.10*	*I*	---	*2*
	19	*Hd.*	*WI*	*+0.141*	*+0.30*	*+0.44*	*0*	---	*3*
1917									
Jan.	*2*	*Wy.*	*WI*	*+0.098*	*−1.03*	*−0.85*	*0*	---	*3½*
	8	*Wy.*	*EI*	*+0.034*	*+0.21*	*+0.38*	*0*	---	*3½*
Sept.	13	Hd.	EII	+0.039		+0.36	I	2.9	3
	17	Hd.	EII	+0.035		+0.05	I	2.9	3
	18	Wy.	EII	+0.065		+0.44	I	4.4	2½
Oct.	2	Fn.	WII	+0.063		+0.37	I	2.9	2½
	4	Hd.	WII	+0.055		+0.79	I	2.9	3
	15	Fn.	EII	+0.059		+0.28	I	3.4	3
	16	Wy.	EII	+0.064		+0.63	I	3.4	3½
	25	Hd.	EII	+0.039		+0.31	I	3.4	3
	26	Fn.	EII	+0.073		+0.60	0	---	3½
1918									
Apr.	*4*	*Fn.*	*EII*	*+0.022*	*−0.97*	*−0.88*	*0*	---	*3½*
	15	*Wy.*	*EII*	*+0.102*	*+0.36*	*+0.39*	*0*	---	*3½*
Aug.	8	Wy.	WII	+0.035		+0.71	I	3.4	3
Mean		1914.87		+0.053		+0.15			
		1914.90							
Corr				−0.081		−0.16			

Piazzi XXI 161

				h	m	s	°	′	″			
1912												
Aug.	12	Fn.	EII	21	27	22.414	−24	59	17.73	0	7.2	3
	20	R.	WII			22.394			16.85	0	---	1
	29	R.	WII			22.365			17.12	0	6.0	5
Sept.	9	Hd.	EII			22.401			17.51	0	7.0	3
1914												
Sept.	13	Wy.	EI			22.373			17.42	0	7.0	3
	14	Fn.	EI			22.399			16.52	0	6.5	3½
	28	Hd.	WI			22.428			17.77	0	7.0	2
	29	Wy.	WI			22.401			17.23	0	6.5	3
Mean		1913.69		21	27	22.397	−24	59	17.27			
Corr						−0.081			−0.03			

β Cephei

				h	m	s	°	′	″			
				21	27	30.235	+70	9	55.80			
1911												
July	31	Fn.	WII			−0.16			+0.21	I	2.9	2
Aug.	6	R.	WII			−0.07			+0.51	I	2.9	1
	8	R.	EII			−0.07			+0.59	I	---	2
	9	Fn.	EII			−0.01			+1.33	I	3.6	3
1915												
July	6	Fn.	WI			+0.03			+1.24	I	3.9	2½
	8	Hd.	WI			−0.01			+0.50	I	2.9	2½
	22	Fn.	EI			+0.08			+0.38	0	---	2
Aug.	10	An.	EI			+0.02			+0.47	II	3.6	2
Mean		1913.57				−0.024			+0.65			
Corr						−0.081			−0.34			

β Cephei s. p.

				h	m	s	°	′	″			
				21	27	30.235	+70	9	55.80			
1913												
Mar.	11	Hd.	EII			−0.10			+0.03	I	4.9	3
	22	Hd.	WII			−0.01			+0.13	I	2.9	3
	24	Fn.	EII			−0.06			+1.05	0	---	4½
Apr.	7	Fn.	WII			−0.22			−0.50	0	---	4
1914												
Jan.	28	Fn.	WI			+0.02			−0.01	0	---	4
	29	Wy.	WI			−0.13			−1.56	0	4.5	4
Feb.	26	Fn.	EI			+0.12			−1.33	0	---	3½
	27	Wy.	EI			−0.17			+1.01	0	4.5	3
Mean		1913.67				−0.069			−0.15			
Corr						−0.081			+0.60			

Weisse$_2$ XXI 672

				h	m	s	°	′	″			
1911												
July	24	Fn.	EII	21	30	27.321	+22	21	17.60	0	7.0	4
	25	Hd.	EII			27.242			17.77	0	---	3
	26	R.	WII			27.253			17.99	0	5.0	1
	27	Fn.	WII			27.263			18.43	0	---	2
1915												
July	17	An.	WI			27.264			17.92	0	7.0	2
	24	An.	EI			27.277			17.74	0	7.0	2½
Aug.	9	Fn.	EI			27.249			16.99	0	7.0	2
	19	Fn.	WI			27.262			17.99	0	7.0	2
Mean		1913.57		21	30	27.266	+22	21	17.80			
Corr						−0.081			−0.23			

72 Cygni

				h	m	s	°	′	″			
1915												
Aug.	31	Wy.	WI	21	31	5.960	+38	7	-----	0	6.0	3
Sept.	20	Hd.	EI			5.993			-----	0	5.5	2½
Oct.	11	Fn.	WI			6.001			-----	0	5.0	2
	25	Hd.	WI			5.964			-----	I	4.9	2
	28	Hd.	EI			6.028			-----	I	4.9	2
Mean		1915.76		21	31	5.989	+38	7	-----			
Corr						−0.081			-----			

ε Capricorni

				h	m	s	°	′	″			
1912												
July	26	R.	WII	21	32	2.678	−19	52	11.12	0	5.5	5
	27	Fn.	WII			2.630			10.49	0	5.3	3
Aug.	5	Fn.	EII			2.671			11.11	0	5.3	2
	6	R.	EII			2.669			10.74	0	---	2½
1914												
Aug.	7	Hd.	EI			2.676			10.77	0	---	3
	8	Wy.	EI			2.693			11.11	0	---	3½
	13	Hd.	WI			2.666			10.99	I	4.9	2
	15	Fn.	WI			2.642			10.14	0	5.0	3½
Mean		1913.60		21	32	2.666	−19	52	10.81			
Corr						−0.081			−0.08			

Weisse$_1$ XXI 712

				h	m	s	°	′	″			
1911												
Aug.	10	R.	EII	21	32	44.336	+11	18	54.64	0	7.0	1
	15	R.	EII			44.286			54.15	0	7.0	1
Sept.	1	Fn.	WII			44.291			54.47	0	7.2	3
	6	R.	WII			44.286			54.85	0	7.0	1

				h m s	° ′ ″				
1915									
July 6	Fn.	WI		44.291	55.14	0	7.5	2	
8	Hd.	WI		44.323	54.37	0	7.5	3	
22	Fn.	EI		44.340	54.78	0	...	2½	
23	Hd.	EI		44.306	55.43	0	7.5	2½	
Mean	1913.59			21 32 44.307	+11 18 54.73				
Corr				−0.081	−0.21				

ξ Aquarii

h m s ° ′ ″
21 32 57.747 −8 15 29.70

1912								
Aug. 7	Fn.	EII	−0.007	+0.21	0	...	2	
12	Fn.	EII	+0.033	+0.27	0	5.2	2½	
23	Fn.	WII	−0.018	−0.01	0	5.4	2½	
24	R.	WII	+0.076	−0.02	I	4.4	2	
1913								
Aug. 7	R.–Fn.	WII	.....	−0.42	I	...	3	R.
7	R.–Fn.	WII	.....	+0.07	I	4.4	3	
14	R.–Fn.	WII	.....	−0.94	0	...	2	R.
14	R.–Fn.	WII	.....	+0.06	I	4.4	2	
15	Fn.–R.	WII	.....	−0.86	0	...	2	R.
15	Fn.–R.	WII	.....	−0.02	0	5.0	2	
16	Fn.–R.	WII	.....	−0.19	0	...	3	R.
16	Fn.–R.	WII	.....	−0.72	0	5.0	3	
17	R.–Fn.	WII	.....	−0.24	0	...	4	R.
17	R.–Fn.	WII	.....	−0.40	I	4.4	2½	
20	R.–Fn.	EII	.....	−0.96	I	...	1½	R.
20	R.–Fn.	EII	.....	+0.41	I	3.9	2	
25	R.–Fn.	EII	.....	−0.17	I	...	2	R.
25	R.–Fn.	EII	.....	−0.17	I	4.4	2	
31	Fn.–R.	EII	.....	−0.85	0	...	3	R.
31	Fn.–R.	EII	.....	−0.19	0	5.0	2½	
1914								
July 28	Hd.	EI	+0.074	−0.42	I	4.9	3	
Aug. 6	Fn.	EI	+0.046	−0.20	0	5.5	2½	
22	An.	WI	+0.078	−0.35	I	3.9	2	
30	Wy.	WI	+0.063	+0.35	I	...	3	
31	Fn.	WI	+0.029	−0.03	0	...	2½	
Mean	1913.74		+0.042	−0.07				
	1913.69							
Corr			−0.081	−0.15				

Oeltzen 22542

			h m s	° ′ ″				
1912								
July 30	R.	WII	21 32 58.767	+50 5 53.21	0	7.0	1½	
Aug. 27	R.	WII	58.730	53.13	0	7.0	2	
Sept. 9	Hd.	EII	58.698	52.48	0	7.0	2	
10	R.	EII	58.734	53.12	0	7.5	1½	
1914								
July 20	Fn.	EI	58.752	52.73	0	7.0	3	
22	Fn.	EI	58.799	53.18	0	7.0	2	
Aug. 17	Fn.	WI	58.678	53.10	0	7.0	2	
18	Wy.	WI	58.784	54.02	0	7.5	3	
Mean	1913.62		21 32 58.743	+50 5 53.12				
Corr			−0.081	−0.29				

74 Cygni

h m s ° ′ ″
21 33 20.469 +40 0 31.88

1911								
Aug. 16	Fn.	EII	+0.012	+0.33	0	5.0	2	
18	Fn.	EII	−0.013	+0.31	0	4.8	..	
Sept. 11	Fn.	WII	+0.023	+0.38	0	5.0	1½	
12	Hd.	WII	−0.007	+0.01	I	4.4	2	
1914								
Sept. 25	Wy.	EI	−0.009	+0.42	0	5.5	2½	
29	Wy.	WI	−0.070	+0.78	I	5.4	2	
Oct. 2	Wy.	WI	...	−0.08	I	5.4	3	
5	Wy.	WI	−0.063	+0.16	I	4.9	2½	
8	Wy.	WI	.....	+0.12	0	5.5	3	
9	Hd.	WI	+0.034	...	I	4.9	2	
12	Hd.	WI	+0.011	...	I	4.9	2	
1915								
Aug. 12	Fn.	EI	+0.022	+0.59	0	5.5	3	
14	Wy.	EI	−0.037	−0.15	0	5.5	2	
21	Wy.	WI	−0.019	+0.84	0	6.0	3	
23	Wy.	WI	−0.058	+0.40	I	4.4	2½	
31	Wy.	WI	−0.021	.....	0	6.0	3	
Sept. 7	Wy.	WI	−0.065	.....	0	5.5	2	
10	Hd.	WI	−0.029	.....	I	4.9	2	
20	Hd.	EI	−0.035	.....	0	6.0	2	
Oct. 11	Fn.	WI	−0.015	.....	0	5.5	2	
25	Hd.	WI	−0.013	.....	I	4.9	2	
28	Hd.	EI	+0.002	.....	I	4.9	2	
Mean	1914.66		−0.018	+0.32				
	1914.07							
Corr			−0.081	−0.27				

B. D.+38° 4558

			h m s	° ′ ″				
1916								
Sept. 19	Hd.	EI	21 34	+38 54 42.57	0	7.0	2	
25	Wy.	EI	.....	42.23	0	7.0	2	
28	Wy.	WI	.....	42.63	0	7.5	3	
Oct. 6	Wy.	WI	.....	41.97	0	7.5	3	
Mean	1916.74		21 34	+38 54 42.35				
Corr			.....	−0.27				

γ Capricorni

h m s ° ′ ″
21 35 6.430 −17 4 9.10

1911								
July 24	Fn.	EII	+0.101	−1.24	I	3.6	4	
31	Fn.	WII	+0.051	−0.87	I	4.1	..	
Aug. 6	R.	WII	+0.059	−0.84	I	3.9	1	
8	R.	EII	+0.112	−1.41	0	...	3	
1915								
July 9	Fn.	WI	+0.038	−1.26	0	5.0	3½	
Aug. 9	Fn.	EI	+0.037	−0.44	0	4.5	3	
10	An.	EI	+0.053	−0.69	0	...	3	
25	Wy.	WI	+0.071	−0.01	0	5.5	3½	
Mean	1913.59		+0.065	−0.84				
Corr			−0.081	−0.10				

Bradley 2830

			h m s	° ′ ″				
1912								
Aug. 29	R.	WII	21 35 30.35	+61 40 32.76	I	4.4	2	
Sept. 12	R.	WII	30.33	32.42	I	4.4	1	
27	Hd.	EII	30.27	32.59	0	...	3	
28	R.	EII	30.32	32.70	I	4.4	1	
29	R.	EII	30.28	32.15	I	4.9	1½	
1914								
Sept. 4	Fn.	WI	30.39	32.64	0	5.0	2½	
8	Wy.	EI	30.32	32.73	I	4.9	2½	
10	An.	EI	30.35	31.94	0	5.5	2½	
13	Wy.	EI	30.30	32.80	I	4.9	2	
28	Hd.	WI	30.38	32.61	I	4.9	2	
Mean	1913.71		21 35 30.329	+61 40 32.53				
Corr			−0.081	−0.32				

Bradley 2822

			h m s	° ′ ″				
1912								
July 26	R.	WII	21 37 34.848	+0 52 30.23	0	6.0	5	
27	Fn.	WII	34.801	29.88	0	5.5	2	
Aug. 5	Fn.	EII	34.830	30.25	0	...	2	
6	R.	EII	34.830	29.81	0	6.0	2½	
1914								
Sept. 10	An.	EI	34.836	.....	0	6.0	3	
21	Hd.	EI	34.816	30.61	0	5.5	2½	
22	Wy.	EI	34.811	30.78	0	6.5	2½	
29	Wy.	WI	34.874	30.75	0	6.0	2½	
30	An.	WI	34.803	30.95	0	6.0	3	
Mean	1913.77		21 37 34.828	+0 52 30.41				
	1913.66							
Corr			−0.081	−0.18				

κ Capricorni

				h	m	s	°	′	″				
1911													
July	18	Hd.	EII	21	37	38.091	−19	16	36.56	I	4	4	3½
	22	R.	EII			38.161			36.79	0	4	0	2½
	26	R.	WII			38.122			36.29	0	4	5	2
	27	Fn.	WII			38.132			36.60	0	4	9	2
1915													
July	6	Fn.	WI			38.135			37.94	0	5	0	3
	8	Hd.	WI			38.196			37.39	I	4	9	3
	23	Hd.	EI			38.179			36.69	I	4	9	2
	24	An.	EI			38.175			36.35	I	5	4	3
Mean		1913.55		21	37	38.149	−19	16	36.83				
Corr						−0.081			−0.09				

Groombridge 3550

				h	m	s	°	′	″				
1911													
Aug.	21	Fn.	EII	21	37	53.120	+59	20	33,35	0	6	7	2
	22	R.	EII			53.117			33.41	0	7	0	1
Sept.	13	R.	WII			53.106			33.61	0	7	0	1
	18	Fn.	WII			53.074			33.95	0	6	7	2
1915													
Aug.	13	An.	EI			53.113			33.87	0	7	0	3
	21	Wy.	WI			53.149			33.84	0	7	0	3
	26	Hd.	WI			53.169			33.79	0			2
Sept.	13	Hd.	EI			53.144			34.01	0	6	5	2
Mean		1913.66		21	37	53.124	+59	20	33.73				
Corr						−0.081			−0.32				

B. D. +45° 3637

				h	m	s	°	′	″				
1912													
Aug.	12	Fn.	EII	21	38	41.923	+45	21	18.76	0	5	8	2
	23	Fn.	WII			41.896			19.33	0	6	2	2
	27	R.	WII			41.934			18.34	0	6	0	2½
Sept.	9	Hd.	EII			41.865			18.56	0	5	8	2
1914													
July	31	Fn.	EI			41.893			18.42	0			2
Aug.	4	Wy.	EI			41.911			18.81	0	6	5	2½
	13	Hd.	WI			41.917			18.82	0	6	0	2
	15	Fn.	WI			41.904			18.74	0	6	0	2
Mean		1913.63		21	38	41.905	+45	21	18.72				
Corr						−0.081			−0.28				

Lalande 42352

				h	m	s	°	′	″				
1912													
Oct.	2	R.	EII	21	39	12.157	+7	7	4.14	0	6	5	3½
	3	Hd.	EII			12.097			4.44	0	6	5	2
	10	Hd.	WII			12.120			3.46	0			2½
	11	Hd.	WII			12.122			3.30	0	7	0	1
1914													
Aug.	7	Hd.	EI			12.118			4.04	0			2
	8	Wy.	EI			12.097			4.29	0	6	5	3
	17	Fn.	WI			12.076			4.34	0	6	5	2
	18	Wy.	WI			12.100			3.58	0	6	5	3
Mean		1913.69		21	39	12.111	+7	7	3.95				
Corr						−0.081			−0.20				

ι Piscis Australis

				h	m	s	°	′	″				
1911													
Aug.	10	R.	EII	21	39	35.445	−33	26	12.89	0	3	0	3½
	15	R.	EII			35.353			13.08	0	5	0	4
Sept.	1	Fn.	WII			35.425			13.49	0	5	0	3½
	20	R.	WII			35.428			13.39	I	4	4	2½
1915													
July	17	An.	WI			35.495			14.69	0	6	5	4
Aug.	9	Fn.	EI			35.411			13.17	0	6	0	3½
	10	An.	EI			35.432			13.48	0	6	5	3
	19	Fn.	WI			35.446			12.72	0	5	0	3
Sept.	1	Hd.	WI			35.476			13.15	0			3½
Mean		1913.85		21	39	35.435	−33	26	13.34				
Corr						−0.081			+0.10				

ε Pegasi

				h	m	s	°	′	″				
				21	39	45.937	+9	27	43.07				
1911						s			″				
Sept.	6	R.	WII			+0.078				II	2	6	1
	11	Fn.	WII			+0.039				I	2	2	1½
	12	Hd.	WII			+0.062				I	2	9	2
	25	Fn.	EII			+0.069				I	2	1	3
	26	Hd.	EII			+0.031				I			3½
Oct.	4	Fn.	EII			+0.061			+0.10	I	2	3	4
	5	R.	EII			+0.039			+0.16	II			3
	6	Fn.	EII			+0.046			−0.50	I			3
	11	Hd.	WII			+0.053			+0.45	I	3	4	3
	25	R.	WII			+0.068			+0.21	II	2	1	1
	26	R.	WII			+0.044			+0.69	II	2	6	2½
	30	R.	EII			+0.052			−0.64	II	2	1	2
Nov.	2	R.	EII			+0.063				II	1	6	2
	3	R.	EII			+0.042			+0.15	II	2	6	1
	7	Fn.	EII			+0.051			+0.04	I	2	1	2½
	10	Fn.	EII			+0.021			+0.01	I	2	1	1½
	11	Fn.	EII			+0.086			−0.14	I			
	13	Hd.	EII			+0.077			−0.12	II	1	6	2
	16	Hd.	EII			+0.094			+0.58	I	2	7	2
	18	Hd.	EII			+0.073			−0.01	II	2	6	3
	21	R.	EII			+0.081				II	2	6	2
1912													
Apr.	*23*	*R.*	*WII*				*−0.38*		*−0.53*	*0*			*5*
	24	*Fn.*	*EII*			*+0.053*	*+0.32*		*+0.22*	*0*			*3½*
July	30	R.	WII			+0.049			−0.20	II	2	6	3½
Aug.	20	R.	WII			+0.054			+0.08	0			
	24	R.	WII			+0.058			−0.16	II	2	6	2
	29	R.	WII			+0.043			+0.66	0			4
	31	R.	WII			+0.037			+0.21	I			2
Sept.	6	Hd.	EII			+0.062			−0.27	II	2	6	3
	10	R.	EII			+0.041			−0.30	II	2	1	2
	12	R.	WII			+0.072			−0.15	II	2	1	1½
	14	R.	WII			+0.090			−0.14	II	2	6	1
	17	R.	WII			+0.039			+0.31	II	2	6	2
	20	Hd.	WII			+0.081				I			3
	29	R.	EII			+0.060			−0.44	I			2
Oct.	4	Hd.	EII			+0.064			+0.12	II	2	6	1
	5	Hd.	EII			+0.054				II	2	6	2
	7	Hd.	WII			+0.065			+0.01	II	2	6	3
	16	Fn.	WII			+0.023			−0.47	I	2	1	1½
	26	Fn.	EII			+0.017				I	2	2	2
	27	R.	EII			+0.091			−0.11	II	2	1	3½
	28	Fn.	EII			+0.054			+0.65	I	2	1	1½
1913													
Mar.	*17*	*Hd.*	*WII*			*+0.068*	*+0.11*		*+0.12*	*0*			*3½*
	28	*Hd.*	*EII*			*+0.061*	*+0.11*		*+0.17*	*0*			*3*
	31	*Hd.*	*EII*			*+0.048*				*0*			*3½*
Apr.	*4*	*Hd.*	*WII*			*+0.070*				*0*			*4*
	7	*Hd.*	*WII*			*+0.051*	*−0.13*		*−0.11*	*0*			*3*
	16	*R.*	*WII*			*+0.059*	*−0.34*		*−0.34*	*0*			*3½*
	17	*Fn.*	*WII*			*−0.003*	*−1.25*		*−1.27*	*0*			*3½*
	21	*Fn.*	*EII*			*+0.043*	*+0.38*		*+0.27*	*0*			*3*
1914													
Mar.	*11*	*Fn.*	*WI*				*−0.13*		*−0.07*	*0*			*3½*
	23	*Wy.*	*EI*			*+0.072*	*+0.11*		*+0.15*	*0*			*3½*
	24	*Hd.*	*EI*			*+0.060*	*−0.44*		*−0.48*	*0*			*3*
Apr.	*3*	*Hd.*	*WI*			*+0.085*	*−1.49*		*−1.41*	*0*			*4*
	5	*Fn.*	*WI*			*+0.057*	*−0.48*		*−0.52*	*0*			*3*
	6	*Wy.*	*WI*				*−0.75*		*−0.81*	*0*			*3*
	9	*Wy.*	*WI*			*+0.038*	*−0.75*		*−0.75*	*0*			*3*
	12	*Fn.*	*EI*			*+0.036*	*+1.07*		*+1.17*	*0*			*3*
	13	*Wy.*	*EI*				*−0.38*		*−0.40*	*0*			*3*
	17	*Hd.*	*EI*			*+0.112*	*−0.14*		*−0.22*	*0*			*3*
Aug.	6	Fn.	EI			+0.060				I	3	4	2
	20	Fn.	WI			+0.069				I			2½
	22	An.	WI			+0.045				II	2	6	2
	30	Wy.	WI			+0.061				II	2	6	2½
	31	Fn.	WI			+0.066			−0.04	I	2	4	2
Sept.	2	Wy.	WI			+0.065				I	3	4	3½
	8	Wy.	EI			+0.068				I	2	9	2½
	13	Wy.	EI			+0.063				II	2	6	2
	16	Wy.	EI			+0.033			−0.48	I			2½
Oct.	1	Hd.	WI			+0.068				II	2	1	2
	5	Wy.	WI			+0.036				II	2	6	2½

				s	"	"			
1914									
Oct.	9	Hd.	WI	+0.079		−0.27	I	2.9	2½
	10	An.	WI	+0.058		+0.18	II	2.6	2½
	12	Hd.	WI	+0.063		+0.66	II	2.6	2½
	19	Hd.	EI	+0.062		----	II	2.1	2
	20	Hd.	EI	+0.037		----	II	2.6	2½
	21	An.	EI	+0.062		----	II	3.1	2½
	23	Fn.	EI	+0.067		+0.55	I	2.9	2½
Nov.	10	An.	WI	+0.042		+0.73	I	---	3
	17	Fn.	EI	+0.028		----	I	2.4	2
	19	Wy.	EI	+0.026		----	I	2.9	2½
	23	Hd.	EI	+0.052		----	I	2.9	2½
	24	Wy.	EI	+0.040		----	II	2.6	2½
1915									
Mar.	*28*	*Fn.*	*EI*	*+0.063*	*+0.79*	*+0.87*	*0*	---	*3½*
	30	*An.*	*EI*	*+0.141*	*+0.57*	*+0.59*	*0*	---	*3½*
	31	*Fn.*	*EI*	*+0.028*	*+0.35*	*+0.36*	*0*	---	*3½*
Apr.	*6*	*An.*	*EI*	*+0.042*	----	----	*0*	---	*3*
	7	*Hd.*	*EI*	*+0.065*	*+0.15*	*+0.14*	*0*	---	*3½*
	12	*Fn.*	*WI*	*+0.028*	*−0.11*	*−0.05*	*0*	---	*3½*
	13	*An.*	*WI*	*+0.073*	----	----	*0*	---	*3½*
	14	*Hd.*	*WI*	*+0.027*	*+0.11*	*+0.07*	*0*	---	*3½*
	15	*Fn.*	*WI*	-----	*+1.93*	*+1.85*	*0*	---	*3½*
	20	*An.*	*WI*	*+0.014*	*−0.09*	*−0.05*	*0*	---	*3½*
	23	*An.*	*WI*	-----	*−0.34*	*−0.35*	*0*	---	*3*
	27	*Hd.*	*EI*	-----	*+0.12*	*+0.05*	*0*	---	*2½*
Aug.	14	Wy.	EI	+0.054		----	I	3.4	2½
	23	Wy.	WI	+0.055		----	II	2.6	2½
Sept.	8	Hd.	WI	+0.046		+0.22	II	2.6	2
	9	Wy.	WI	+0.043		−0.06	II	2.6	2½
	10	Hd.	WI	+0.036		+0.09	II	2.6	2
	20	Hd.	EI	+0.056		----	II	2.6	2
	22	Hd.	EI	+0.034		----	II	2.6	2
	24	Wy.	EI	+0.075		+0.41	I	2.9	3
	28	Fn.	EI	+0.067		+0.90	I	2.4	2
Oct.	8	Hd.	WI	+0.049		+0.45	II	2.6	3
	9	Fn.	WI	+0.056		−0.08	I	2.9	3
	12	Wy.	WI	+0.041		+0.30	II	2.6	3½
	13	Hd.	WI	+0.050		+0.36	II	2.6	2
	21	Hd.	WI	+0.050		+0.41	I	2.4	3
	23	Fn.	WI	+0.060		+0.55	I	2.4	2½
	25	Hd.	WI	+0.056		+0.29	II	2.6	2
	27	Wy.	WI	+0.062		−0.08	I	2.9	3
	28	Hd.	EI	+0.054		+0.94	II	2.6	2
	29	Fn.	EI	+0.068		+0.42	I	2.9	3
Nov.	1	Fn.	EI	+0.030		+0.27	I	2.9	3
	2	Wy.	EI	+0.076		+0.41	I	2.9	3
	5	Wy.	EI	+0.058		+0.19	II	2.1	2
1916									
Sept.	19	Hd.	EI	+0.045		+0.23	II	2.6	2
	25	Wy.	EI	+0.036		+0.78	II	2.6	2½
	26	Hd.	EI	+0.033		−0.07	II	2.6	2
Oct.	6	Wy.	WI	+0.047		----	I	3.4	3
	10	Fn.	WI	+0.041		+0.61	I	2.4	2
	12	Hd.	WI	+0.058		−0.09	I	2.9	2½
	17	Fn.	WI	+0.039		−0.49	I	2.9	2½
	24	Hd.	WI	+0.065		+0.07	II	2.6	2
Nov.	9	Wy.	EI	+0.033		−0.32	I	---	3½
	10	Fn.	EI	+0.041		+0.91	I	2.9	2½
	20	Fn.	WI	+0.024		−0.50	0	---	2
	24	Fn.	WI	+0.077		+0.11	I	2.9	3
Dec.	*7*	*Fn.*	*EI*	*+0.052*	*+0.07*	*+0.09*	*0*	---	*2½*
	8	*Hd.*	*EI*	*+0.060*	*−0.05*	*−0.05*	*I*	---	*2*
	19	*Hd.*	*WI*	*+0.064*	*−0.88*	*−0.78*	*0*	---	*3*
	22	*Hd.*	*WI*	*+0.063*	----	----	*0*	---	*3½*
	26	*Fn.*	*WI*	*+0.050*	*−1.38*	*−1.29*	*0*	---	*3½*
1917									
Jan.	*2*	*Wy.*	*WI*	*+0.074*	*−1.76*	*−1.65*	*0*	---	*3½*
	8	*Wy.*	*EI*	*+0.056*	*+0.09*	*+0.18*	*0*	---	*3½*
	19	*Hd.*	*EI*	*+0.075*	*−1.13*	*−1.01*	*0*	---	*3*
Mar.	*29*	*Fn.*	*WI*	*+0.163*	*+0.23*	*+0.27*	*0*	---	*4*
Apr.	*8*	*Hd.*	*WI*	*+0.064*	*−0.54*	*−0.47*	*0*	---	*3*
	9	*Fn.*	*WI*	*+0.096*	*−0.35*	*−0.33*	*0*	---	*3½*
	15	*Fn.*	*WI*	*+0.072*	*−0.14*	*−0.09*	*0*	---	*3½*
	16	*Wy.*	*WI*	*+0.096*	*+0.21*	*+0.27*	*0*	---	*3½*
	22	*Wy.*	*EI*	*+0.007*	*+0.07*	*−0.01*	*0*	---	*3½*
Sept.	13	Hd.	EII	+0.033		+0.07	I	2.9	3
	17	Hd.	EII	+0.031		+0.47	II	2.6	3
	18	Wy.	EII	+0.057		+0.53	I	2.4	2½

				s	"	"			
1917									
Oct.	2	Fn.	WII	+0.039		+0.70	I	2.4	2½
	4	Hd.	WII	+0.033		+0.14	II	3.1	2
	15	Fn.	EII	+0.027		+0.01	I	2.4	2½
	16	Wy.	EII	+0.018		+0.19	I	3.4	3
	22	Hd.	EII	+0.045		+0.48	I	2.9	3
	25	Hd.	EII	+0.038		+0.26	I	3.4	2½
	26	Fn.	EII	+0.035		+0.01	I	3.4	3
Nov.	2	Fn.	EII	+0.052		+0.15	I	2.9	2½
1918									
Jan.	*8*	*Hd.*	*EII*	*+0.029*	*+0.17*	*+0.28*	*0*	---	*3½*
	10	*Fn.*	*EII*	*+0.066*	*+0.01*	*+0.11*	*0*	---	*3½*
Feb.	*26*	*Hd.*	*EII*	*+0.074*	*−0.32*	*−0.22*	*0*	---	*3½*
Mar.	*10*	*Hd.*	*WII*	*+0.104*	*−0.80*	*−0.65*	*0*	---	*3½*
	25	*Wy.*	*WII*	*+0.120*	*−0.45*	*−0.33*	*0*	---	*3½*
Apr.	*14*	*Fn.*	*EII*	*+0.154*	*+0.13*	*+0.12*	*0*	---	*3½*
	15	*Wy.*	*EII*	*+0.113*	*−0.63*	*−0.58*	*0*	---	*3½*
May	*5*	*Fn.*	*EII*	*+0.016*	*+0.12*	*+0.07*	*0*	---	*3*
Aug.	8	Wy.	WII	+0.049		+0.34	I	2.9	3
Mean			1914.60	+0.052		+0.16			
			1914.81						
Corr				−0.081		−0.21			

11 Cephei

h m s ° ′ ″
21 40 36.478 +70 53 49.03

				s	"	"			
1911									
Sept.	29	Hd.	EII	+0.02		+0.02	I	3.9	3
	30	R.	EII	+0.15		+0.52	II	---	1
Oct.	12	R.	WII	−0.02		+1.81	I	4.4	2
	13	Hd.	WII	−0.04		+0.71	I	3.9	2
1915									
Sept.	3	Hd.	WI	+0.02		+0.43	I	4.4	2
	7	Wy.	WI	+0.08		+0.72	0	---	2
	14	Wy.	EI	+0.15		+0.69	I	4.4	2
	15	Hd.	EI	+0.06		+0.83	I	3.9	2
Mean			1913.73	+0.052		+0.72			
Corr				−0.081		−0.34			

11 Cephei s. p.

h m s ° ′ ″
21 40 36.474 +70 53 49.01

				s	"	"			
1913									
Feb.	14	Fn.	WII	−0.05		−1.66	0	5.0	4
	15	R.	WII	−0.06		−0.72	0	6.0	3½
Mar.	6	Hd.	EII	−0.13		+1.39	0	5.5	4
	11	Hd.	EII	−0.16		+0.53	0	6.0	3
Dec.	8	Hd.	EI	+0.13		+0.22	0	---	4
	11	Hd.	EI	+0.20		+0.76	0	---	4
	18	Hd.	WI	−0.16		−0.76	0	---	4
	19	Fn.	WI	+0.05		−0.17	0	5.0	3½
Mean			1913.55	−0.022		−0.05			
Corr				−0.081		+0.59			

λ Capricorni

				h	m	s	°	′	″			
1912												
Sept.	14	R.	WII	21	41	41.531	−11	46	53.84	0	---	1
	17	R.	WII			41.503			53.29	0	6.5	2½
	28	R.	EII			41.582			53.27	0	6.5	1½
	30	R.	EII			41.579			52.13	0	6.0	2
Oct.	27	R.	EII			41.536			52.49	0	5.5	4½
1914												
Sept.	25	Wy.	EI			41.572			52.99	0	6.2	3
	26	An.	EI			41.580			53.73	0	6.0	--
	30	An.	WI			41.549			52.46	0	6.0	3½
Oct.	1	Hd.	WI			41.547			52.38	0	5.5	2½
	19	Hd.	EI			41.586			53.14	0	5.5	3
Mean			1913.75	21	41	41.556	−11	46	52.97			
Corr						−0.081			−0.13			

Weisse$_1$ XXI 942

				h	m	s	°	′	″			
1911												
July	24	Fn.	EII	21	41	52.246	−2	37	44.54	0	7.0	3½
	31	Fn.	WII			52.247			45.00	0	6.5	2
Aug.	7	Fn.	WII			52.216			45.13	0	7.0	2½
	8	R.	EII			52.266			44.89	0	---	2½
1915												
July	6	Fn.	WI			52.224			45.50	0	6.5	2½
	8	Hd.	WI			52.290			44.42	0	7.0	3
Aug.	12	Fn.	EI			52.272			43.98	0	7.0	3
	14	Wy.	EI			52.254			44.21	0	7.5	3
Mean		1913.58		21	41	52.252	−2	37	44.71			
Corr						−0.081			−0.17			

Lalande 42470

				h	m	s	°	′	″			
1912												
Oct.	5	Hd.	EII	21	41	55.488	+35	26	30.35	0	6.5	2
	11	Hd.	WII			55.570			30.53	0	6.5	1
	15	Hd.	WII			55.574			30.38	0	6.2	2
	26	Fn.	EII			55.552			30.75	0	6.6	2
1914												
Aug.	20	Fn.	WI			55.539			30.18	0	---	2
	22	An.	WI			55.542			31.00	0	6.5	1½
	30	Wy.	WI			55.588			31.91	0	6.2	2
Sept.	8	Wy.	EI			55.557			30.68	0	6.5	2
	10	An.	EI			55.521			30.60	0	7.0	2
	13	Wy.	EI			55.574			31.24	0	6.5	2
Mean		1913.92		21	41	55.550	+35	26	30.76			
Corr						−0.081			−0.26			

δ Capricorni

				h	m	s	°	′	″				
				21	42	4.563	−16	32	11.02				
1911													
Sept.	11	Fn.	WII			+0.076			+0.09	I	2.6	1½	
	12	Hd.	WII			+0.051			+0.21	I	2.9	3½	
	25	Fn.	EII			+0.069			+0.50	I	2.5	3	
	26	Hd.	EII			+0.083			+0.68	I	2.4	3½	
1915													
Aug.	23	Wy.	WI			+0.099			−0.10	I	3.4	2½	
	25	Wy.	WI			+0.071			+0.76	I	4.4	3½	
Sept.	20	Hd.	EI			+0.081			+0.27	I	3.9	3	
	22	Hd.	EI			+0.080			+0.11	I	2.9	3	
Mean		1913.70				+0.076			+0.32				
Corr						−0.081			−0.10				

Bradley 2849

				h	m	s	°	′	″			
1912												
July	27	Fn.	WII	21	42	40.200	+2	16	10.38	0	5.8	3
Aug.	1	R.	WII			40.212			-----	0	---	1
	5	Fn.	EII			40.183			10.48	0	5.6	2
	6	R.	EII			40.194			10.83	0	6.0	2
	20	R.	WII			40.224			10.53	0	---	1
1914												
Sept.	2	Wy.	WI			40.192			10.32	0	---	4
	4	Fn.	WI			40.249			10.98	0	6.0	2½
	21	Hd.	EI			40.196			10.38	0	6.0	2
	22	Wy.	EI			40.185			10.90	0	6.0	2½
Oct.	2	Wy.	WI			------			11.05	0	6.2	2½
	5	Wy.	WI			40.208			10.62	0	6.5	2½
Mean		1913.66		21	42	40.204	+2	16	10.65			
		1913.87										
Corr						−0.081			−0.18			

Bradley 2853

				h	m	s	°	′	″			
1911												
July	18	Hd.	EII	21	42	47.875	+16	46	40.15	0	5.8	3
	22	R.	EII			47.966			40.29	0	5.0	1
	26	R.	WII			47.896			39.92	0	5.0	2
	27	Fn.	WII			47.923			39.90	0	5.6	1½
1915												
Aug.	26	Hd.	WI			47.955			39.71	0	---	2
	31	Wy.	WI			47.949			39.31	0	6.0	3
Sept.	13	Hd.	EI			47.965			39.76	0	6.0	2
	16	Wy.	EI			47.936			40.29	0	6.0	2½
Mean		1913.62		21	42	47.933	+16	46	39.92			
Corr						−0.081			−0.22			

ν Cephei

				h	m	s	°	′	″				
1912													
Oct.	3	Hd.	EII	21	42	51.10	+60	42	19.49	I	3.9	2	
	4	Hd.	EII			51.09			19.84	I	3.9	1	
	9	Hd.	WII			51.11			19.09	0	---	2	
	10	Hd.	WII			51.15			18.96	0	---	3	
1914													
Sept.	23	An.	EI			51.18			18.97	I	4.9	2½	
	28	Hd.	WI			51.12			18.87	I	3.9	2	
	29	Wy.	WI			51.07			19.80	I	3.9	2	
Oct.	20	Hd.	EI			51.17			19.32	I	---	3	
	21	An.	EI			51.18			18.98	I	4.9	2	
Mean		1913.88		21	42	51.130	+60	42	19.26				
Corr						−0.081			−0.32				

π^2 Cygni

				h	m	s	°	′	″				
				21	43	28.041	+48	53	34.25				
1911													
Aug.	18	Fn.	EII			+0.028			−0.15	0	4.3	2	
	21	Fn.	EII			+0.003			+0.17	0	4.6	2	
Sept.	13	R.	WII			−0.013			−0.30	I	3.9	1	
	18	Fn.	WII			+0.023			+0.04	0	4.5	1½	
1913													
Aug.	7	R.–Fn.	WII			-----			−0.92	I	---	2	R.
	7	R.–Fn.	WII			-----			+0.51	I	4.4	1½	
	14	R.–Fn.	WII			-----			−0.78	I	---	1½	R.
	14	R.–Fn.	WII			-----			+0.30	I	3.9	1½	
	15	Fn.–R.	WII			-----			−0.81	I	---	2	R.
	15	Fn.–R.	WII			-----			+0.38	I	4.4	2	
	16	Fn.–R.	WII			-----			−0.54	0	---	3	R.
	16	Fn.–R.	WII			-----			+0.19	I	3.9	2½	
	17	R.–Fn.	WII			-----			−0.08	0	---	4	R.
	17	R.–Fn.	WII			-----			+0.06	I	3.9	3½	
	20	R.–Fn.	EII			-----			−0.66	I	---	2	R.
	20	R.–Fn.	EII			-----			−1.40	I	3.4	1½	
	25	R.–Fn.	EII			-----			+0.43	I	---	2	R.
	25	R.–Fn.	EII			-----			−0.74	I	3.9	2	
	31	Fn.–R.	EII			-----			+0.52	0	---	2½	R.
	31	Fn.–R.	EII			-----			−0.13	I	3.9	2½	
Sept.	4	Fn.–R.	EII			-----			−0.19	0	---	2	R.
	4	Fn.–R.	EII			-----			+0.18	I	3.9	2	
1915													
Aug.	13	An.	EI			+0.021			+0.22	I	4.9	2½	
	16	Fn.	EI			−0.006			+0.42	0	---	2	
	17	An.	WI			−0.002			+0.21	I	5.4	2½	
	21	Wy.	WI			+0.061			+0.02	I	4.4	3	
Mean		1913.65				+0.014			0.00				
		1913.64											
Corr						−0.081			−0.29				

Lacaille 8934

				h	m	s	°	′	″			
1912												
Oct.	2	R.	EII	21	44	42.683	−27	49	22.70	0	6.5	3½
	15	Hd.	WII			42.695			24.00	0	7.5	3
	16	Fn.	WII			42.680			26.48	0	---	2½
1914												
Sept.	25	Wy.	EI			------			23.44	0	---	3½
	26	An.	EI			42.680			23.68	0	7.0	3½
Oct.	1	Hd.	WI			42.680			23.59	0	7.5	2½
	9	Hd.	WI			42.668			23.78	0	---	3½
	19	Hd.	EI			42.687			23.94	0	8.0	3
Mean		1913.91		21	44	42.682	−27	49	23.95			
		1914.02										
Corr						−0.081			0.00			

14 Pegasi

				h	m	s	°	′	″			
1911												
Aug. 10	R.	EII		21	45	51.752	+29	45	17.18	0	5.0	1
15	R.	EII				51.755			16.98	0	5.0	2½
Sept. 1	Fn.	WII				51.706			16.79	0	---	--
2	R.	WII				51.757			17.63	0	5.0	2
1915												
July 9	Fn.	WI				51.783			16.99	0	5.5	2½
17	An.	WI				51.754			17.60	I	5.4	2
22	Fn.	EI				51.732			17.37	0	---	2½
23	Hd.	EI				51.768			17.23	0	5.5	2
Mean	1913.59			21	45	51.751	+29	45	17.22			
Corr						−0.081			−0.25			

Weisse$_2$ XXI 1080

				h	m	s	°	′	″			
1912												
Aug. 12	Fn.	EII		21	46	0.372	+40	43	43.64	0	---	2
23	Fn.	WII				0.401			43.44	0	6.3	2
24	R.	WII				0.411			44.11	0	7.0	1
Sept. 6	Hd.	EII				0.352			44.10	0	6.5	2
1914												
July 31	Fn.	EI				0.357			43.89	0	---	2½
Aug. 4	Wy.	EI				0.361			43.37	0	---	--
17	Fn.	WI				0.376			44.35	0	7.0	2
18	Wy.	WI				0.405			44.55	0	6.5	3
Mean	1913.63			21	46	0.379	+40	43	43.93			
Corr						−0.081			−0.27			

Radcliffe 1890, 5886

				h	m	s	°	′	″			
1912												
Aug. 29	R.	WII		21	46	17.552	−23	41	23.60	0	7.5	5
Sept. 9	Hd.	EII				17.528			23.92	0	7.5	3
10	R.	EII				17.579			23.86	0	7.0	2
12	R.	WII				17.530			23.52	0	7.5	1½
1914												
Aug. 7	Hd.	EI				17.605			23.63	0	---	3
8	Wy.	EI				17.626			23.30	0	---	4
13	Hd.	WI				17.581			24.07	0	7.0	3
31	Fn.	WI				17.610			24.78	0	---	3
Sept. 13	Wy.	EI				17.592			23.47	0	7.5	3
Mean	1913.77			21	46	17.578	−23	41	23.79			
Corr						−0.081			−0.04			

B. D.+38° 4618

				h	m	s	°	′	″			
1916												
Sept. 19	Hd.	EI		21	46	-----	+39	1	17.27	0	7.5	2
26	Hd.	EI				-----			17.37	0	7.5	2
Oct. 6	Wy.	WI				-----			16.90	0	7.5	3
10	Fn.	WI				-----			17.50	0	7.5	2
Mean	1916.75			21	46	-----	+39	1	17.26			
Corr						-----			−0.27			

μ Capricorni

				h	m	s	°	′	″			
				21	48	23.502	−13	58	33.30			
1911												
July 31	Fn.	WII				+0.054			−0.19	0	5.5	--
Aug. 7	Fn.	WII				+0.087			+1.01	0	5.6	3
8	R.	EII				+0.069			+0.61	0	---	4
9	Fn.	EII				+0.071			+0.65	0	---	--
1915												
July 6	Fn.	WI				+0.054			+0.27	0	5.5	3
8	Hd.	WI				+0.070			−0.95	0	5.5	3½
24	An.	EI				+0.034			+1.00	I	5.4	3
Aug. 9	Fn.	EI				+0.068			+0.30	0	5.5	3
Mean	1913.57					+0.063			+0.34			
Corr						−0.081			−0.12			

γ Gruis

				h	m	s	°	′	″			
				21	48	-----	−37	47	19.06			
1911												
Sept. 12	Hd.	WII				-----			−0.7	0	---	5
13	R.	WII				-----			−1.5	0	---	2
18	Fn.	WII				-----			−0.4	0	---	3½
1912												
July 26	R.	WII				-----			−0.5	0	---	5
Aug. 1	R.	WII				-----			−0.2	0	---	3
3	R.	EII				-----			−1.0	0	---	2
Oct. 2	R.	EII				-----			−0.3	0	---	3
4	Hd.	EII				-----			−0.2	0	---	4
5	Hd.	EII				-----			+0.1	0	---	4
27	R.	EII				-----			−0.9	I	---	5
Nov. 11	Fn.	EII				-----			−0.2	0	---	4
12	Fn.	EII				-----			−1.2	0	---	4½
18	Hd.	EII				-----			−0.4	0	---	4
19	Hd.	EII				-----			−0.3	0	---	5
20	Hd.	EII				-----			−0.2	I	---	4
1913												
Nov. 5	Hd.	EI				-----			−1.0	I	---	4
7	R.	EI				-----			+0.4	I	---	--
10	Fn.	WI				-----			+1.6	0	---	5
11	R.	WI				-----			−0.1	I	---	--
12	Hd.	WI				-----			0.0	0	---	3½
13	Fn.	WI				-----			−2.7	0	---	4
17	Fn.	WI				-----			+0.9	0	---	3½
21	R.	WI				-----			−1.4	I	---	--
22	Hd.	WI				-----			−0.8	I	---	3½
25	R.	EI				-----			−1.5	0	---	--
1914												
Sept. 21	Hd.	EI				-----			+0.7	I	---	3½
22	Wy.	EI				-----			−0.3	I	---	3½
23	An.	EI				-----			+2.8	I	---	2½
26	An.	EI				-----			+0.5	0	---	3½
29	Wy.	WI				-----			−0.6	I	---	4
30	An.	WI				-----			+2.6	I	---	4
Oct. 1	Hd.	WI				-----			0.0	I	---	3½
5	Wy.	WI				-----			−1.2	I	---	3½
10	An.	WI				-----			−1.6	I	---	3½
12	Hd.	WI				-----			−0.7	I	---	3½
19	Hd.	EI				-----			−0.5	I	---	4
23	Fn.	EI				-----			+1.1	I	---	4
Nov. 4	Hd.	WI				-----			−2.6	0	---	4
23	Hd.	EI				-----			−0.1	I	---	3½
1915												
June 22	Wy.	EI				-----			−1.3	I	---	4
Sept. 3	Hd.	WI				-----			−0.2	0	---	3
7	Wy.	WI				-----			−0.6	0	---	3½
8	Hd.	WI				-----			−0.4	I	---	3½
9	Wy.	WI				-----			−0.6	0	---	3½
10	Hd.	WI				-----			−1.2	0	---	3½
15	Hd.	EI				-----			−0.6	I	---	3
16	Wy.	EI				-----			+0.2	I	---	3½
20	Hd.	EI				-----			−0.1	0	---	4
22	Hd.	EI				-----			+0.4	I	---	3½
Oct. 9	Fn.	WI				-----			+0.9	0	---	4½
12	Wy.	WI				-----			+1.0	I	---	4
21	Hd.	WI				-----			+1.6	0	---	4
23	Fn.	WI				-----			−0.1	0	---	4
25	Hd.	WI				-----			+0.1	I	---	3½
27	Wy.	WI				-----			−0.4	0	---	4
28	Hd.	EI				-----			+0.2	I	---	3
29	Fn.	EI				-----			−0.6	0	---	4½
Nov. 1	Fn.	EI				-----			+1.9	0	---	4½
3	Hd.	EI				-----			+1.5	I	---	3½
5	Wy.	EI				-----			0.0	I	---	3½
6	Hd.	EI				-----			−0.7	I	---	3½
9	Hd.	WI				-----			−1.8	0	---	3½
10	Fn.	WI				-----			−0.7	0	---	3½
1916												
Oct. 12	Hd.	WI				-----			+0.3	I	---	3½
17	Fn.	WI				-----			+1.0	0	---	4
24	Hd.	WI				-----			+0.8	I	---	3½
Nov. 10	Fn.	EI				-----			−1.1	0	---	4
16	Wy.	WI				-----			−0.5	I	---	4
24	Fn.	WI				-----			+0.3	0	---	4

				s						
1917					″					
Sept.	13	Hd.	EII	-----	−0. 1	I	---	3½		
	17	Hd.	EII	-----	−1. 7	I	---	3½		
	18	Wy.	EII	-----	+1. 1	I	---	3½		
Oct.	2	Fn.	WII	-----	−0. 1	0	---	4½		
	4	Hd.	WII	-----	−0. 5	I	---	3½		
	15	Fn.	EII	-----	−1. 6	0	---	4½		
	16	Wy.	EII	-----	−0. 7	0	---	4½		
	22	Hd.	EII	-----	+0. 1	0	---	4		
	25	Hd.	EII	-----	+1. 0	0	---	3½		
Nov.	2	Fn.	EII	-----	+1. 3	0	---	4		
	20	Fn.	WII	-----	+1. 9	0	---	3½		
Mean			1915. 11	-----	−0. 15					
Corr				-----	+0. 22					

16 Pegasi

h m s 21 48 57. 986 ° ′ ″ +25 30 5. 13

				s						
1912					″					
July	27	Fn.	WII	−0. 034	−0. 31	0	5. 0	2½		
	30	R.	WII	0. 000	−0. 62	0	5. 5	4		
Aug.	5	Fn.	EII	+0. 001	−0. 57	0	---	2		
	6	R.	EII	−0. 015	−0. 74	0	---	2		
1914										
Sept.	2	Wy.	WI	+0. 012	−0. 32	0	---	3½		
	4	Fn.	WI	+0. 064	−0. 34	0	6. 0	2½		
	16	Wy.	EI	−0. 009	+0. 13	0	---	2½		
	19	Wy.	EI	+0. 015	−0. 43	I	5. 5	2½		
Mean			1913. 64	+0. 004	−0. 40					
Corr				−0. 081	−0. 24					

Groombridge 3600

h m s 21 49 20. 074 ° ′ ″ +54 15 32. 18

				s						
1911					″					
July	18	Hd.	EII	20. 074	32. 18	0	6. 5	3		
	22	R.	EII	20. 095	32. 82	0	5. 5	1		
	26	R.	WII	20. 122	33. 20	0	6. 5	3		
	27	Fn.	WII	20. 083	32. 77	0	---	--		
1915										
Aug.	12	Fn.	EI	20. 128	31. 57	0	7. 0	2		
	14	Wy.	EI	20. 094	32. 36	0	7. 0	2		
	17	An.	WI	20. 081	32. 40	0	7. 0	2½		
	18	Wy.	WI	20. 152	32. 93	0	6. 5	2½		
Mean			1913. 59	21 49 20. 104	+54 15 32. 53					
Corr				−0. 081	−0. 30					

B. D.+31° 4577

h m s 21 50 57. 559 ° ′ ″ +31 54 45. 97

				s						
1911					″					
Aug.	21	Fn.	EII	57. 559	45. 97	0	6. 9	2		
	22	R.	EII	57. 619	45. 69	0	7. 0	1		
Sept.	2	R.	WII	57. 545	46. 38	0	---	1		
	11	Fn.	WII	57. 612	45. 86	0	6. 7	1½		
1915										
Aug.	26	Hd.	WI	57. 591	45. 94	0	---	2		
	31	Wy.	WI	57. 523	46. 17	0	7. 5	3		
Sept.	13	Hd.	EI	57. 588	46. 16	0	6. 0	2		
	14	Wy.	EI	57. 578	46. 18	0	7. 0	2		
Mean			1913. 67	21 50 57. 577	+31 54 46. 04					
Corr				−0. 081	−0. 25					

79 Draconis

h m s 21 51 44. 247 ° ′ ″ +73 16 35. 02

				s						
1911					″					
Sept.	20	R.	WII	−0. 19	+0. 27	0	6. 5	1½		
	25	Fn.	EII	−0. 20	+0. 91	0	6. 7	2½		
	26	Hd.	EII	−0. 18	−0. 34	0	6. 5	3½		
Oct.	11	Hd.	WII	−0. 18	−0. 17	0	6. 5	3		
1913										
Aug.	7	R.–Fn.	WII	----	+0. 51	0	---	2	R.	
	7	R.–Fn.	WII	----	+0. 31	0	7. 0	2		
	14	R.–Fn.	WII	----	+0. 57	0	---	2	R.	
	14	R.–Fn.	WII	----	+0. 38	0	6. 5	1½		
	15	Fn.–R.	WII	----	−0. 35	0	---	2½	R.	
	15	Fn.–R.	WII	----	+0. 42	0	6. 8	2½		
	16	Fn.–R.	WII	----	+0. 91	0	---	2½	R.	
	16	Fn.–R.	WII	----	+0. 41	0	6. 7	2		
	17	R.–Fn.	WII	----	+0. 85	0	6. 5	2		
	20	R.–Fn.	EII	----	−0. 10	0	---	1½	R.	
	20	R.–Fn.	EII	----	−0. 18	0	6. 0	1½		
	25	R.–Fn.	EII	----	+0. 01	0	6. 0	2½		
	31	Fn.–R.	EII	----	+0. 16	0	---	2½	R.	
	31	Fn.–R.	EII	----	+0. 65	0	6. 5	2		
Sept.	4	Fn.–R.	EII	----	−0. 13	0	---	2½	R.	
	4	Fn.–R.	EII	----	+0. 20	0	6. 5	2		
1915										
July	9	Fn.	WI	−0. 06	+0. 19	0	7. 0	2½		
	17	An.	WI	−0. 11	+0. 55	0	7. 0	2½		
	23	Hd.	EI	−0. 14	+1. 09	0	7. 0	2		
Aug.	10	An.	EI	−0. 14	+1. 04	0	7. 0	2		
Mean			1913. 65	−0. 150	+0. 39					
			1913. 64							
Corr				−0. 081	−0. 35					

79 Draconis s. p.

h m s 21 51 44. 243 ° ′ ″ +73 16 35. 02

				s						
1912					″					
Apr.	9	Hd.	WII	−0. 20	+0. 26	0	---	4½		
	10	R.	WII	−0. 19	+1. 06	0	---	5		
	19	Hd.	EII	−0. 19	+0. 59	0	---	4		
May	1	R.	EII	−0. 23	+0. 69	0	---	3		
1915										
Mar.	29	Fn.	EI	−0. 25	0. 00	0	7. 5	4		
	30	Wy.	EI	−0. 08	−1. 22	0	7. 5	3½		
Apr.	21	An.	WI	----	+0. 69	0	---	3		
	24	An.	WI	----	+0. 04	0	8. 0	3		
Mean			1913. 28	−0. 190	+0. 26					
			1913. 78							
Corr				−0. 081	+0. 55					

Weisse$_2$ XXI 1209

h m s 21 52 11. 470 ° ′ ″ +20 48 42. 52

				s						
1912					″					
Aug.	12	Fn.	EII	11. 470	42. 52	0	6. 6	2		
	20	R.	WII	11. 459	42. 30	0	7. 0	1		
	23	Fn.	WII	11. 439	43. 16	0	6. 3	2		
Sept.	6	Hd.	EII	11. 485	42. 53	0	---	2		
1914										
Aug.	7	Hd.	EI	11. 477	42. 70	0	---	2		
	8	Wy.	EI	11. 480	42. 21	0	6. 5	3		
	13	Hd.	WI	11. 492	43. 48	0	6. 0	2		
	15	Fn.	WI	11. 478	42. 94	0	6. 5	2½		
Mean			1913. 63	21 52 11. 472	+20 48 42. 73					
Corr				−0. 081	−0. 23					

Bradley 2869

h m s 21 52 33. 081 ° ′ ″ +11 38 54. 70

				s						
1911					″					
Sept.	29	Hd.	EII	33. 081	54. 70	0	6. 5	3		
	30	R.	EII	33. 096	55. 67	I	4. 4	1		
Oct.	12	R.	WII	33. 060	56. 12	I	4. 4	2		
	13	Hd.	WII	33. 006	55. 32	0	6. 7	2		
1915										
Sept.	1	Hd.	WI	33. 065	54. 63	0	---	2½		
	3	Hd.	WI	33. 054	55. 08	0	6. 5	2		
	15	Hd.	EI	33. 051	55. 59	0	6. 0	2		
	16	Wy.	EI	33. 061	55. 70	0	5. 5	2½		
	20	Hd.	EI	33. 032	55. 44	0	6. 5	2		
Mean			1913. 95	21 52 33. 056	+11 38 55. 36					
Corr				−0. 081	−0. 21					

Bradley 2894

				h	m	s	°	′	″			
1912												
Aug.	27	R.	WII	21	53	12.99	+79	7	32.56	0	7.0	2
	29	R.	WII			12.74			33.01	0	7.0	2
Sept.	9	Hd.	EII			12.70			32.86	0	6.0	2
	10	R.	EII			12.83			33.20	0	6.5	2
1914												
Sept.	22	Wy.	EI			13.09			32.59	0	7.0	2
	23	An.	EI			12.85			33.05	0	6.0	3
	25	Wy.	EI			12.91			33.17	0	6.5	3½
Oct.	1	Hd.	WI			13.01			32.92	0	6.2	2
	9	Hd.	WI			12.96			32.68	0	---	2½
Mean		1913.82		21	53	12.898	+79	7	32.89			
Corr						−0.081			−0.37			

Bradley 2894 s. p.

				h	m	s	°	′	″			
1912												
Feb.	13	Hd.	EII	21	53	12.79	+79	7	31.37	0	7.5	3
	23	Hd.	WII			13.00			31.72	0	6.5	5
	28	R.	WII			12.72			31.39	0	---	--
Mar.	9	R.	EII			12.63			33.16	0	---	--
1915												
Mar.	31	An.	EI			-----			32.84	0	7.0	3
Apr.	1	Fn.	EI			12.66			31.23	0	8.0	3
	15	Hd.	WI			13.02			31.98	0	7.0	3
	17	An.	WI			-----			32.81	0	7.0	3½
Mean		1913.19		21	53	12.803	+79	7	32.06			
		1913.71										
Corr						−0.081			+0.49			

Weisse$_1$ XXI 1200

				h	m	s	°	′	″			
1912												
July	30	R.	WII	21	53	57.047	+3	21	1.89	0	7.5	4
Aug.	6	R.	EII			57.082			1.85	0	7.5	2
	7	Fn.	EII			57.083			1.70	0	7.2	2
	24	R.	WII			57.090			1.24	0	7.0	2
1914												
Sept.	1	An.	WI			57.047			0.71	0	6.0	2½
	4	Fn.	WI			57.094			1.59	0	7.0	2½
	9	Fn.	EI			57.061			0.80	0	7.0	2½
	21	Hd.	EI			57.034			1.45	0	7.0	2
	29	Wy.	WI			57.063			1.17	0	7.0	2½
Oct.	2	Wy.	WI			-----			0.84	0	7.0	3
	5	Wy.	WI			57.047			0.54	0	6.5	2½
Mean		1913.87		21	53	57.065	+3	21	1.25			
		1913.95										
Corr						−0.081			−0.19			

Lalande 42846

				h	m	s	°	′	″			
1911												
Aug.	15	R.	EII	21	54	13.484	−4	47	50.08	0	5.5	2
	16	Fn.	EII			13.454			49.84	0	---	2
Sept.	12	Hd.	WII			13.425			49.81	0	6.5	3
	13	R.	WII			13.464			49.78	0	6.0	1
1915												
Aug.	12	Fn.	EI			13.449			50.71	0	7.0	2½
	14	Wy.	EI			13.439			50.35	0	7.0	3
	17	An.	WI			13.435			50.09	0	7.0	3
	25	Wy.	WI			13.501			50.50	0	7.5	3½
Mean		1913.64		21	54	13.456	−4	47	50.14			
Corr						−0.081			−0.16			

Groombridge 3637

				h	m	s	°	′	″			
1911												
July	31	Fn.	WII	21	54	53.00	+65	43	35.21	0	7.0	2
Aug.	9	Fn.	EII			53.09			36.17	0	6.6	3
	10	R.	EII			53.18			36.16	0	6.0	1
Sept.	1	Fn.	WII			53.05			36.06	0	---	--
1915												
July	24	An.	EI			53.17			36.49	0	6.0	2
Aug.	9	Fn.	EI			53.11			36.73	0	6.5	2
	18	Wy.	WI			53.08			35.96	0	6.5	2½
1915												
Aug.	21	Wy.	WI			53.09			35.75	0	7.0	3½
	23	Wy.	WI			53.00			35.83	0	7.0	2½
Mean		1913.84		21	54	53.086	+65	43	36.04			
Corr						−0.081			−0.33			

20 Pegasi

				h	m	s	°	′	″			
				21	56	42.273	+12	41	18.17			
1912												
Sept.	17	R.	WII			+0.032			+0.07	0	6.0	2
	20	Hd.	WII			+0.025			+0.50	0	6.0	2
	28	R.	EII			+0.045			+0.34	0	5.5	1½
Oct.	1	R.	EII			+0.004			−0.21	0	5.5	2
	2	R.	EII			+0.004			+0.37	0	5.5	2
1914												
Aug.	7	Hd.	EI			−0.010			+0.36	0	6.0	2
	8	Wy.	EI			−0.003			+0.60	0	6.5	3
	13	Hd.	WI			+0.026			+0.79	0	6.0	2
	15	Fn.	WI			−0.003			+0.56	0	6.0	2½
Mean		1913.57				+0.013			+0.38			
Corr						−0.081			−0.22			

Piazzi XXI 361

				h	m	s	°	′	″			
1911												
Aug.	21	Fn.	EII	21	57	14.743	−18	20	9.25	0	6.7	2
	22	R.	EII			14.858			8.64	0	7.0	2
Sept.	20	R.	WII			14.803			8.86	0	6.5	2½
Oct.	11	Hd.	WII			14.794			8.53	0	7.5	3½
1915												
July	8	Hd.	WI			14.834			8.52	0	6.5	3½
	9	Fn.	WI			14.778			9.50	0	7.0	3
	23	Hd.	EI			14.808			9.09	0	6.5	3
Aug.	10	An.	EI			14.830			9.31	0	6.5	3
Mean		1913.62		21	57	14.806	−18	20	8.96			
Corr						−0.081			−0.09			

B. D.+38° 4656

				h	m	s	°	′	″			
1916												
Sept.	25	Wy.	EI	21	57	-----	+38	48	46.30	0	7.0	2
	26	Hd.	EI			-----			46.96	0	7.5	3
Oct.	6	Wy.	WI			-----			46.82	0	7.0	2½
	10	Fn.	WI			-----			46.01	0	7.0	2
Mean		1916.75		21	57	-----	+38	48	46.52			
Corr						-----			−0.27			

Weisse$_1$ XXI 1323

				h	m	s	°	′	″			
1912												
July	26	R.	WII	22	0	5.213	+9	48	14.50	0	7.5	2½
	30	R.	WII			5.172			14.54	0	7.0	5
Aug.	7	Fn.	EII			5.049			14.74	0	6.8	2
	10	R.	EII			5.157			14.82	0	7.5	1½
1914												
Aug.	30	Wy.	WI			5.166			14.77	0	7.0	2
Sept.	1	An.	WI			5.193			14.51	0	7.0	2
	2	Wy.	WI			5.143			14.41	0	6.5	3
	9	Fn.	EI			5.141			14.33	0	7.0	2
	14	Fn.	EI			5.180			15.01	0	6.5	2
Mean		1913.75		22	0	5.157	+9	48	14.63			
Corr						−0.081			−0.21			

Bradley 2887

				h	m	s	°	′	″			
1911												
Aug.	16	Fn.	EII	22	0	9.756	−1	20	31.75	0	5.8	3
	18	Fn.	EII			9.770			30.53	0	5.6	2½
Sept.	13	R.	WII			9.757			31.50	I	4.4	1
	18	Fn.	WII			9.793			31.17	0	5.8	2
1915												
Aug.	12	Fn.	EI			9.759			-----	0	5.5	2½
	13	An.	EI			9.728			30.64	0	---	2½
	17	An.	WI			9.771			30.76	0	6.0	3
	18	Wy.	WI			9.752			31.78	0	6.0	2½
Mean		1913.64		22	0	9.761	−1	20	31.16			
		1913.36										
Corr						−0.081			−0.18			

α Aquarii

h m s 22 1 9.724 ° ′ ″ −0 45 26.54

				s	″	″			
1911									
Sept. 6	R.	WII		+0.020		−0.30	I	2.9	1
11	Fn.	WII		+0.022		−0.48	I	2.6	1½
12	Hd.	WII		+0.017		----	I	2.9	3
25	Fn.	EII		+0.012		----	I	2.5	2
26	Hd.	EII		+0.064		----	I	2.7	3
29	Hd.	EII		+0.059		−0.80	I	2.4	3
Oct. 4	Fn.	EII		+0.042		−0.89	I	2.8	3½
5	R.	EII		+0.040		+0.03	I	---	3½
6	Fn.	EII		+0.023		−0.37	I	3.0	2½
12	R.	WII		+0.062		+0.07	II	2.6	2
13	Hd.	WII		+0.048		----	I	2.9	2
16	Fn.	WII		+0.084		−0.29	I	---	2
18	Fn.	WII		+0.077		+0.27	I	2.5	2
23	R.	WII		+0.047		+0.21	II	2.6	2
24	Fn.	WII		+0.089		+0.01	I	2.7	2
26	R.	WII		+0.040		−0.34	I	2.9	2½
30	Hd.	EII		+0.060		+0.15	I	2.4	2½
Nov. 2	Fn.	EII		+0.064		----	I	2.7	2
3	Hd.	EII		+0.080		−0.01	I	2.4	1
7	Fn.	EII		+0.077		----	I	2.7	2½
10	Fn.	EII		+0.050		−0.44	I	2.7	2
11	Fn.	EII		+0.040		−0.76	0	---	--
13	Hd.	EII		+0.047		−0.27	I	2.9	2
16	Hd.	EII		+0.042		+0.33	I	2.9	3
18	Hd.	EII		+0.046		−0.79	I	2.4	3
22	R.	EII		+0.036		----	II	2.6	1
Dec. 1	Hd.	WII		+0.072		−0.46	I	2.9	2
2	Hd.	WII		+0.071		−0.07	I	2.9	4
1912									
Apr. 23	*R.*	*WII*		-----	*−0.63*	*−0.80*	*0*	---	--
Aug. 6	R.	EII		+0.064		−0.04	I	3.4	1½
20	R.	WII		+0.022		−0.12	I	---	1
24	R.	WII		+0.078		−0.02	I	2.9	2½
Sept. 17	R.	WII		+0.036		----	II	2.6	1½
20	Hd.	WII		+0.088		----	II	3.1	2
Oct. 3	Hd.	EII		+0.072		----	I	2.7	3
4	Hd.	EII		+0.057		+0.46	I	2.9	1
5	Hd.	EII		+0.044		−0.19	0	---	4
7	Hd.	WII		+0.055		−0.29	I	2.9	3
11	Hd.	WII		+0.040		----	I	2.9	1
16	Fn.	WII		+0.093		−1.23	I	2.5	1½
18	Fn.	WII		+0.048		−0.60	0	---	1½
26	Fn.	EII		+0.054		−0.11	I	2.8	2
27	R.	EII		+0.039		−0.24	I	3.4	3½
28	Fn.	EII		+0.084		0.00	I	2.7	2
1913									
Apr. 4	*Hd.*	*WII*		*+0.065*	----	----	*0*	---	*3*
16	*R.*	*WII*		*+0.093*	*−0.87*	*−0.87*	*0*	---	*3½*
17	*Fn.*	*WII*		*+0.024*	*−0.23*	*−0.26*	*0*	---	*3½*
29	*R.*	*EII*		*+0.061*	*−0.56*	*−0.63*	*0*	---	*3½*
30	*Hd.*	*EII*		*+0.093*	*+0.10*	*−0.07*	*0*	---	*2*
May 1	*Fn.*	*EII*		*+0.017*	*−0.52*	*−0.63*	*0*	---	*2½*
1914									
Apr. 2	*Wy.*	*WI*		*+0.036*	*−0.94*	*−0.80*	*0*	---	*3*
9	*Wy.*	*WI*		*+0.067*	----	----	*0*	---	*3*
17	*Hd.*	*EI*		*+0.099*	*−0.40*	*−0.45*	*0*	---	*2½*
Aug. 8	Wy.	EI		+0.060		----	I	2.9	3
Sept. 4	Fn.	WI		+0.060		+0.49	I	2.9	2
13	Wy.	EI		+0.048		----	I	3.4	2½
16	Wy.	EI		+0.046		----	0	---	2½
19	Wy.	EI		+0.042		----	I	3.4	3
21	Hd.	EI		+0.074		+0.36	I	2.9	2
22	Wy.	EI		+0.055		−0.21	I	2.9	2½
25	Wy.	EI		+0.058		+0.07	I	3.4	3½
26	An.	EI		+0.047		+0.17	II	3.1	2½
30	An.	WI		+0.056		----	II	3.1	2½
Oct. 1	Hd.	WI		+0.068		----	II	2.6	2
5	Wy.	WI		+0.047		+0.07	I	2.9	3
9	Hd.	WI		+0.026		−0.24	I	3.4	2½
10	An.	WI		+0.077		−0.13	II	3.6	2½
12	Hd.	WI		+0.048		+0.35	I	2.9	3
1914									
Oct. 20	Hd.	EI		+0.032		+0.38	I	---	3
21	An.	EI		+0.058		−0.61	II	---	3
22	Hd.	EI		+0.048		+0.24	I	---	3½
23	Fn.	EI		+0.045		+0.49	I	2.9	2½
30	Hd.	EI		+0.058		−0.04	I	2.9	3½
Nov. 2	Fn.	WI		+0.010		−1.00	I	3.4	3
3	An.	WI		+0.073		−0.66	II	3.6	3
4	Hd.	WI		+0.071		+0.13	I	2.9	3
11	Hd.	WI		+0.045		----	I	3.4	3
17	Fn.	EI		+0.059		----	I	2.9	2½
25	Fn.	EI		+0.089		----	I	3.9	4
Dec. 2	Fn.	WI		+0.091		----	I	2.9	2½
1915									
Apr. 7	*Hd.*	*EI*		*+0.032*	*−0.26*	*−0.20*	*0*	---	*3½*
13	*An.*	*WI*		*+0.102*	*−1.05*	*−0.99*	*0*	---	*3½*
14	*Hd.*	*WI*		*+0.074*	----	----	*0*	---	*3½*
15	*Fn.*	*WI*		-----	*+0.36*	*+0.22*	*0*	---	*3½*
20	*An.*	*WI*		*−0.001*	----	----	*0*	---	*3½*
23	*An.*	*WI*		*+0.094*	*+0.17*	*+0.16*	*0*	---	*3*
30	*Hd.*	*EI*		-----	*+0.03*	*−0.17*	*0*	---	*2*
July 22	Fn.	EI		+0.067		----	I	3.9	2½
Aug. 14	Wy.	EI		+0.095		−0.19	I	3.4	2
23	Wy.	WI		+0.046		----	I	3.4	2
Sept. 9	Wy.	WI		+0.024		+0.16	I	3.4	3
10	Hd.	WI		+0.063		−0.58	I	2.9	2
14	Wy.	EI		+0.088		−0.53	I	2.9	2
24	Wy.	EI		+0.067		−0.22	I	3.4	3
Oct. 8	Hd.	WI		+0.064		−0.09	I	2.9	3
9	Fn.	WI		+0.068		+0.31	I	2.9	3
11	Fn.	WI		+0.070		+0.42	I	3.4	2
13	Hd.	WI		+0.060		+0.44	I	---	3
23	Fn.	WI		+0.066		+0.30	I	2.9	2½
25	Hd.	WI		+0.069		−0.04	I	2.9	2
27	Wy.	WI		+0.054		−0.15	I	3.4	3
28	Hd.	EI		+0.046		+0.02	I	3.4	2
29	Fn.	EI		+0.032		−0.12	I	3.4	3
Nov. 1	Fn.	EI		+0.086		+0.01	I	3.9	3½
17	Wy.	WI		+0.087		−0.25	I	3.4	3
20	Wy.	EI		+0.095		----	I	3.4	3½
1916									
Sept. 25	Wy.	EI		+0.054		−0.12	I	3.4	3
Oct. 6	Wy.	WI		+0.040		−0.28	I	3.4	3
12	Hd.	WI		+0.068		−0.16	I	3.4	2½
17	Fn.	WI		+0.041		−0.14	I	3.4	3
23	Wy.	WI		+0.083		−0.23	I	---	3
Nov. 3	Fn.	EI		+0.071		+0.55	I	2.9	2½
9	Wy.	EI		+0.064		−0.37	I	3.9	3½
16	Wy.	WI		+0.065		−0.76	I	3.4	2½
20	Fn.	WI		+0.013		−0.44	0	---	2
24	Fn.	WI		+0.085		−0.65	I	3.9	3
27	Wy.	WI		+0.049		−0.50	I	3.4	3
Dec. 7	Fn.	EI		+0.070		−0.01	I	---	2½
22	*Hd.*	*WI*		*+0.035*	----	----	*0*	---	*3½*
29	*Hd.*	*WI*		*+0.067*	*−0.92*	*−0.88*	*0*	---	*3*
1917									
Jan. 2	*Wy.*	*WI*		*+0.102*	*−1.29*	*−1.15*	*0*	---	*3½*
19	*Hd.*	*EI*		*+0.055*	*−0.55*	*−0.41*	*0*	---	*3*
Apr. 22	*Wy.*	*EI*		*+0.050*	*+0.20*	*+0.13*	*0*	---	*3½*
29	*Hd.*	*EI*		*+0.100*	*+0.01*	*−0.16*	*0*	--	*3*
Sept. 18	Wy.	EII		+0.049		−0.03	I	3.4	2½
Oct. 2	Fn.	WII		+0.052		----	I	2.9	2½
4	Hd.	WII		+0.039		−0.09	I	2.9	3
15	Fn.	EII		+0.047		−0.50	I	3.4	3
16	Wy.	EII		+0.057		−0.12	I	3.4	3
22	Hd.	EII		+0.049		+0.50	I	2.9	3
25	Hd.	EII		+0.043		+0.19	I	2.9	2
Nov. 2	Fn.	EII		+0.071		+0.85	I	3.4	2½
20	Fn.	WII		+0.042		−0.89	I	2.9	2½
1918									
Apr. 15	*Wy.*	*EII*		*+0.140*	*−0.21*	*−0.10*	*0*	---	*3½*
Mean		1914.39		+0.056		−0.13			
		1914.55							
Corr				−0.081		−0.18			

Bradley 2895

				h	m	s	°	′	″			
1912												
Aug. 1	R.	WII		22	1	29.966	+28	31	35.11	0	---	2
12	Fn.	EII				29.962			34.88	0	---	2
15	R.	WII				29.960			34.72	0	---	2½
Sept. 6	Hd.	EII				29.934			35.09	0	6.0	2
1914												
July 31	Fn.	EI				29.962			34.77	0	6.0	3½
Aug. 4	Wy.	EI				29.959			34.88	0	---	2½
13	Hd.	WI				29.963			35.85	0	6.0	2
15	Fn.	WI				29.967			35.02	0	5.5	2½
Mean	1913.61			22	1	29.959	+28	31	35.04			
Corr						−0.081			−0.25			

ι Aquarii

	h	m	s	°	′	″
	22	1	34.671	−14	18	24.24

1911									
July 31	Fn.	WII	+0.070	−0.44	0	---	2		
Aug. 7	Fn.	WII	+0.054	−0.47	0	---	3		
8	R.	EII	+0.072	−0.11	0	---	3		
9	Fn.	EII	+0.009	+0.51	0	5.2	3½		
1913									
Aug. 7	R.–Fn.	WII	-----	−0.51	0	---	3		R.
7	R.–Fn.	WII	-----	+0.05	I	4.9	3		
14	R.–Fn.	WII	-----	−1.12	0	---	2½		R.
14	R.–Fn.	WII	-----	+0.34	I	4.4	2		
15	Fn.–R.	WII	-----	−0.21	0	---	2		R.
15	Fn.–R.	WII	-----	−0.01	0	4.5	2½		
16	Fn.–R.	WII	-----	−0.43	0	---	2½		R.
16	Fn.–R.	WII	-----	−0.58	0	4.5	2½		
20	R.–Fn.	EII	-----	−1.21	I	---	2½		R.
20	R.–Fn.	EII	-----	−0.17	I	3.9	2		
25	R.–Fn.	EII	-----	−0.95	0	---	3		R.
25	R.–Fn.	EII	-----	−0.18	I	4.4	3		
31	Fn.–R.	EII	-----	−1.39	0	---	2½		R.
31	Fn.–R.	EII	-----	+0.11	I	3.9	2½		
Sept. 4	Fn.–R.	EII	-----	−0.66	0	---	2½		R.
4	Fn.–R.	EII	-----	+0.52	I	3.9	2½		
1915									
July 17	An.	WI	+0.093	+0.29	I	5.9	3½		
24	An.	EI	+0.081	+0.16	I	5.4	2½		
Aug. 9	Fn.	EI	+0.087	−0.56	0	5.0	2½		
21	Wy.	WI	+0.073	−0.45	I	4.9	3½		
Mean	1913.59		+0.067	−0.06					
	1913.61								
Corr			−0.081	−0.12					

Piazzi XXI 393

				h	m	s	°	′	″			
1912												
Aug. 29	R.	WII		22	2	14.415	−22	40	49.25	0	7.5	2½
Sept. 12	R.	WII				14.478			49.73	0	7.0	1
28	R.	EII				14.483			49.20	0	---	1½
Oct. 1	R.	EII				14.457			49.47	0	7.0	3½
27	R.	EII				------			48.99	0	---	2½
1914												
Aug. 8	Wy.	EI				14.457			48.61	0	---	4
Sept. 13	Wy.	EI				14.453			48.37	0	7.5	3½
20	An.	EI				14.427			48.81	0	7.0	3
28	Hd.	WI				14.431			48.74	0	7.0	2
29	Wy.	WI				14.429			48.95	0	7.0	3½
Mean	1913.82			22	2	14.448	−22	40	49.01			
	1913.72											
Corr			−0.081						−0.05			

20 Cephei

	h	m	s	°	′	″
	22	2	16.375	+62	20	46.78

1912									
Aug. 23	Fn.	WII	−0.06	+0.58	0	5.4	2		
27	R.	WII	+0.02	+0.08	0	5.5	1½		
Sept. 10	R.	EII	−0.10	+0.12	I	4.4	1		
27	Hd.	EII	−0.13	+0.71	I	4.9	3		
1914									
Aug. 6	Fn.	EI	−0.01	+0.54	0	6.0	2		
7	Hd.	EI	−0.02	+0.79	0	6.0	3		
17	Fn.	WI	−0.06	−0.58	0	6.0	2		
20	Fn.	WI	−0.05	−0.26	0	5.5	2½		
Mean	1913.65		−0.051	+0.25					
Corr			−0.081	−0.32					

α Gruis

	h	m	s	°	′	″
	22	2	-----	−47	23	51.35

1912									
Sept. 20	Hd.	WII	-----	−5.6	0	---	5		
Nov. 11	Fn.	EII	-----	−5.0	0	---	5		
12	Fn.	EII	-----	−0.7	0	---	5		
1913									
Nov. 6	Fn.	EI	-----	−5.1	0	---	5		
1914									
Oct. 31	An.	EI	-----	−7.5	0	---	4½		
1915									
June 28	Wy.	EI	-----	−1.6	0	---	4		
Sept. 16	Wy.	EI	-----	−2.4	0	---	5		
Oct. 12	Wy.	WI	-----	+0.8	0	---	5		
Nov. 2	Wy.	EI	-----	−5.0	0	---	5		
Mean	1914.44		-----	−3.57					
Corr			-----	+1.53					

ι Pegasi

	h	m	s	°	′	″
	22	2	49.317	+24	54	18.70

1911									
Aug. 10	R.	EII	+0.004	+0.12	I	3.4	1		
15	R.	EII	+0.021	+0.19	I	2.4	1		
Sept. 1	Fn.	WII	−0.028	−0.21	I	3.5	--		
2	R.	WII	−0.031	+0.89	I	3.4	1		
1915									
July 6	Fn.	WI	−0.010	+0.43	0	---	2½		
8	Hd.	WI	+0.017	+0.31	I	3.9	2½		
23	Hd.	EI	−0.001	+0.36	I	3.9	2		
Aug. 10	An.	EI	+0.001	+0.63	I	4.9	2		
Mean	1913.60		−0.003	+0.34					
Corr			−0.081	−0.24					

Weisse$_2$ XXI 1539

				h	m	s	°	′	″			
1912												
Oct 2	R.	EII		22	3	11.722	+17	33	43.14	0	6.0	3
3	Hd.	EII				11.721			42.55	0	6.0	2
11	Hd.	WII				11.710			42.18	0	6.5	1
15	Hd.	WII				11.745			42.44	0	6.2	2
1914												
Sept. 5	Wy.	WI				------			41.90	0	6.5	2
14	Fn.	EI				11.698			42.25	0	6.5	2
19	Wy.	EI				11.693			42.40	0	6.5	3
30	An.	WI				11.681			42.22	0	6.0	2
Oct. 1	Hd.	WI				11.718			42.05	0	6.0	2
Mean	1913.75			22	3	11.711	+17	33	42.35			
	1913.85											
Corr			−0.081						−0.23			

Weisse$_2$ XXII 46

				h	m	s	°	′	″			
1911												
Aug. 22	R.	EII		22	5	2.723	+45	17	58.82	0	6.5	1
Sept. 12	Hd.	WII				2.679			59.92	0	6.2	3
13	R.	WII				2.729			59.94	0	6.0	1
25	Fn.	EII				2.668			59.74	0	6.0	2
1915												
Aug. 14	Wy.	EI				2.661			59.76	0	7.0	2
18	Wy.	WI				2.663			59.15	0	6.0	2
21	Wy.	WI				2.683			60.23	0	6.5	3
Sept. 14	Wy.	EI				2.684			59.44	0	6.0	2
Mean	1913.67			22	5	2.686	+45	17	59.62			
Corr			−0.081						−0.28			

θ Pegasi

	h	m	s	°	′	″
	22	5	39.690	+5	45	17.44

1911									
Aug. 18	Fn.	EII	+0.021		+0.69	I	3.4	2
21	Fn.	EII	−0.001		+0.14	I	3.4	2
Sept. 18	Fn.	WII	+0.018		+0.22	I	3.4	1½
20	R.	WII	+0.002		+0.12	I	2.9	1½
1915									
July 9	Fn.	WI	+0.017		[−1.38][1]	I	3.9	3
22	Fn.	EI	+0.031		+0.01	0	---	2½
Aug. 12	Fn.	EI	+0.010		----	I	3.9	2½
13	An.	EI	−0.015		+0.29	I	---	2½
17	An.	WI	+0.015		+0.30	I	4.9	3
Mean	1913.85		+0.011		+0.25			
	1913.36							
Corr			−0.081		−0.19			

Bradley 2909

			h	m	s	°	′	″			
1912											
July 26	R.	WII	22	5	48.955	−12	0	28.41	0	6.0	4
30	R.	WII			48.893			28.87	0	---	5
Aug. 7	Fn.	EII			48.880			28.06	0	6.8	2
10	R.	EII			48.934			28.82	0	6.0	2
1914											
Sept. 23	An.	EI			48.946			28.09	0	---	3½
25	Wy.	EI			48.980			28.34	0	6.5	3
Oct. 2	Wy.	WI			48.930			28.69	0	6.5	2½
5	Wy.	WI			48.931			29.13	0	6.5	3
Mean	1913.67		22	5	48.931	−12	0	28.55			
Corr					−0.081			−0.13			

π Pegasi

	h	m	s	°	′	″
	22	5	59.357	+32	44	10.57

1911									
Sept. 29	Hd.	EII	+0.008		−0.04	0	---	3
30	R.	EII	+0.021		+0.61	I	4.4	1
Oct. 11	Hd.	WII	−0.034		−0.25	I	3.9	2
13	Hd.	WII	+0.001		+0.42	I	3.9	2
1914									
Oct. 9	Hd.	WI	−0.035		----	I	4.4	2
12	Hd.	WI	−0.030		----	I	4.4	3
19	Hd.	EI	−0.006		+0.35	I	3.9	3
20	Hd.	EI	−0.004		+0.13	I	---	2
23	Fn.	EI	−0.048		----	I	3.9	2½
30	Hd.	EI	−0.046		----	I	3.9	3
Nov. 2	Fn.	WI	−0.019		+0.24	0	5.0	2½
4	Hd.	WI	−0.025		+0.47	I	4.4	3
1915									
Aug. 23	Wy.	WI	+0.019		----	I	4.4	2
Oct. 11	Fn.	WI	−0.044		----	I	4.4	2
25	Hd.	WI	−0.019		----	I	3.9	2
28	Hd.	EI	+0.012		----	I	3.4	2
Nov. 9	Hd.	WI	−0.008		----	I	4.4	3
13	Fn.	WI	−0.054		----	0	---	2½
29	Hd.	EI	−0.020		----	0	---	2
1916									
Oct. 21	Hd.	WI	−0.085		----	I	3.9	3
Nov. 15	Hd.	WI	−0.019		----	I	4.4	3
Dec. 22	Hd.	WI	−0.060		----	0	---	3½
29	Hd.	WI	−0.039		----	0	---	2½
1917									
Nov. 16	Fn.	WII	−0.041		----	0	5.0	2½
19	Hd.	WII	−0.025		----	I	3.9	2
Mean	1915.19		−0.024		+0.24			
	1913.29							
Corr			−0.081		−0.26			

ζ Cephei

	h	m	s	°	′	″
	22	7	43.830	+57	45	26.78

			s		″		″		
1911									
Nov. 22	R.	EII	+0.067		−0.24	II	2.6	1
Dec. 1	Hd.	WII	+0.023		+0.15	I	3.9	2
2	Hd.	WII	+0.064		+0.04	I	3.9	4
4	R.	WII	−0.005		+0.26	I	3.4	2½
5	R.	WII	+0.023		+0.27	I	4.4	1
7	R.	WII	+0.020		+0.45	I	3.9	1
1912									
Aug. 1	R.	WII	−0.012		----	I	4.4	1
3	R.	EII	−0.040		+0.47	I	2.9	2
6	R.	EII	−0.026		+0.15	I	3.4	1
15	R.	WII	+0.010		−0.11	0	---	3½
20	R.	WII	+0.028		+0.27	I	---	1
1914									
Aug. 30	Wy.	WI	+0.002		+0.99	I	3.4	2
Sept. 2	Wy.	WI	+0.040		+0.77	I	3.4	3
21	Hd.	EI	+0.018		+0.24	I	2.9	3
22	Wy.	EI	+0.052		−0.17	I	3.4	2
1916									
Sept. 25	Wy.	EI	+0.076		+0.18	I	3.4	2
Oct. 6	Wy.	WI	+0.087		+0.41	I	3.4	3
10	Fn.	WI	+0.023		+1.60	I	3.4	2
17	Fn.	WI	0.000		+0.61	I	3.4	2½
23	Wy.	WI	0.000		+0.05	I	3.9	2½
Nov. 3	Fn.	EI	−0.060		+0.39	I	3.9	2½
7	Wy.	EI	+0.007		−0.50	I	3.9	3
24	Fn.	WI	−0.071		+1.44	0	---	3
Dec. 7	Fn.	EI	−0.029		+0.20	0	---	2½
29	*Hd.*	*WI*	*−0.024*	*+0.73*	*+0.72*	*0*	---	*3*
1917									
Jan. 2	*Wy.*	*WI*	*+0.088*	*−0.46*	*−0.51*	*0*	---	*3*
19	*Hd.*	*EI*	*+0.044*	*−0.10*	*−0.16*	*0*	---	*2½*
Mar. 21	*Fn.*	*EI*	*+0.092*	*+0.09*	*+0.06*	*0*	---	*3½*
Apr. 8	*Hd.*	*WI*	*−0.040*	*+0.52*	*+0.46*	*0*	---	*3*
22	*Wy.*	*EI*	*0.000*	*+0.03*	*+0.05*	*0*	---	*4*
29	*Hd.*	*EI*	*+0.064*	*−0.15*	*−0.08*	*0*	---	*3*
Sept. 18	Wy.	EII	+0.084		+0.18	I	3.4	2½
Oct. 2	Fn.	WII	+0.014		+0.37	I	3.4	2½
4	Hd.	WII	+0.029		+0.14	I	3.4	2
15	Fn.	EII	+0.037		+0.34	I	3.9	3
16	Wy.	EII	−0.015		−0.32	I	3.9	3
22	Hd.	EII	+0.048		+0.07	I	2.9	2½
25	Hd.	EII	−0.016		0.00	I	3.4	2½
Nov. 2	Fn.	EII	+0.031		+0.62	I	3.9	3
20	Fn.	WII	+0.015		+0.25	I	3.4	2
1918									
Jan. 8	*Hd.*	*EII*	*+0.078*	*−0.41*	*−0.47*	*0*	---	*3½*
Mar. 24	*Fn.*	*WII*	*−0.051*	*−0.23*	*−0.28*	*0*	---	*3½*
Apr. 15	*Wy.*	*EII*	*+0.143*	*+0.29*	*+0.25*	*0*	---	*3½*
Mean	1915.30		+0.016		+0.30			
	1915.38							
Corr			−0.081		−0.31			

ζ Cephei s. p.

	h	m	s	°	′	″
	22	7	-----	+57	45	26.78

1911								
Dec. 6	R.	WII	-----	−6.0	0	---	--
1912								
Nov. 18	Hd.	EII	-----	−3.3	0	---	5
Dec. 9	Hd.	WII	-----	−0.3	0	---	5
1913								
Nov. 20	Hd.	WI	-----	+0.6	0	---	4
22	R.	WI	-----	−4.2	0	---	--
Dec. 3	R.	EI	-----	+1.9	0	---	--
5	R.	EI	-----	−1.6	0	---	--
1914								
Mar. 12	Fn.	WI	-----	−1.2	0	---	4
13	Wy.	WI	-----	−2.6	0	---	3½
26	Fn.	EI	-----	−3.2	0	---	5

[1] Micrometer readings doubtful.

			s	″			
1915							
May 5	Hd.	EI	-----	+1.3	0	---	5
1916							
Jan. 20	Wy.	EI	-----	−2.3	0	---	4½
23	Fn.	EI	-----	−4.5	0	---	3½
Feb. 3	Fn.	EI	-----	+0.9	0	---	4½
1917							
Apr. 9	Hd.	WI	-----	−0.6	0	---	5
10	Fn.	WI	-----	−0.8	0	---	4½
16	Fn.	WI	-----	−1.2	0	---	4½
May 3	Hd.	EI	-----	+0.5	0	---	4
1918							
Mar. 28	Fn.	WII	-----	−2.2	0	---	3½
Apr. 15	Fn.	EII	-----	−3.5	0	---	3½
Mean------	1915.26		-----	−1.62			
Corr----------			-----	+1.26			

Lacaille 9058

			h	m	s	°	′	″			
1912											
Aug. 24	R.	WII	22	7	53.372	−26	46	19.99	0	7.5	2
27	R.	WII			53.384			20.32	0	7.5	3½
Sept. 10	R.	EII			53.368			19.72	0	---	3
Oct. 1	R.	EII			53.403			19.68	0	7.0	3½
1914											
Sept. 26	An.	EI			------			18.96	0	7.0	3½
30	An.	WI			53.404			19.62	0	6.0	3
Oct. 1	Hd.	WI			53.387			19.72	0	6.5	2½
21	An.	EI			53.362			20.46	0	7.0	3½
23	Fn.	EI			53.359			19.53	0	7.0	3½
Mean------	1913.73		22	7	53.380	−26	46	19.78			
	1913.84										
Corr----------					−0.081			−0.01			

24 Cephei

			h	m	s	°	′	″				
			22	8	4.794	+71	53	51.67				
1912												
Aug. 29	R.	WII			+0.06			+0.66	0	---	--	
31	R.	WII			−0.03			+0.40	0	---	2½	
Sept. 12	R.	WII			−0.01			+0.57	I	4.4	1	
29	R.	EII			+0.08			+0.57	0	5.5	1	
Oct. 2	R.	EII			+0.02			+0.47	I	3.9	1½	
1913												
Aug. 7	R.–Fn.	WII			----			+0.20	I	---	1½	R.
7	R.–Fn.	WII			----			+0.66	I	4.4	1½	
14	R.–Fn.	WII			----			+0.48	I	---	2	R.
14	R.–Fn.	WII			----			+0.54	I	4.4	2	
15	Fn.–R.	WII			----			+0.38	0	---	2	R.
15	Fn.–R.	WII			----			+0.79	0	5.0	2	
16	Fn.–R.	WII			----			+0.63	0	---	2	R.
16	Fn.–R.	WII			----			+0.33	0	5.0	2	
17	R.–Fn.	WII			----			−0.07	0	---	4	R.
17	R.–Fn.	WII			----			+1.22	I	4.9	4	
25	R.–Fn.	EII			----			+1.33	I	---	2	R.
25	R.–Fn.	EII			----			+0.13	I	4.4	2	
31	Fn.–R.	EII			----			+0.39	0	---	2	R.
31	Fn.–R.	EII			----			+0.49	0	5.0	2	
Sept. 4	Fn.–R.	EII			----			+0.70	0	---	2	R.
4	Fn.–R.	EII			----			+0.77	0	5.0	2	
1914												
Sept. 5	Wy.	WI			----			+1.61	I	5.4	2½	
13	Wy.	EI			+0.03			+0.98	I	4.9	2	
14	Fn.	EI			+0.17			+0.62	0	5.5	2	
29	Wy.	WI			−0.02			+1.02	I	4.9	2½	
Mean------	1913.46				+0.038			+0.70				
	1913.61											
Corr----------					−0.081			−0.34				

24 Cephei s. p.

			h	m	s	°	′	″			
			22	8	4.795	+71	53	51.67			
1913											
Jan. 22	Fn.	EII			−0.01			+0.42	0	---	4½
25	R.	EII			+0.02			+0.52	0	---	4
Feb. 8	R.	WII			−0.06			+0.28	0	5.5	3½
13	R.	WII			−0.04			−1.67	0	---	3½
1914											
Jan. 29	Wy.	WI			−0.11			+0.14	0	---	4
31	Fn.	WI			+0.26			−1.66	0	5.0	3½
Mar. 18	Hd.	EI			−0.16			−1.42	0	---	4
24	Wy.	EI			−0.01			+0.02	0	5.5	3
Mean------	1913.62				−0.014			−0.42			
Corr----------					−0.081			+0.57			

Lalande 43363

			h	m	s	°	′	″			
1911											
Aug. 15	R.	EII	22	9	45.967	−16	15	24.14	0	6.0	2½
16	Fn.	EII			45.933			24.05	0	6.8	3½
Sept. 1	Fn.	WII			45.948			23.74	0	6.7	2½
2	R.	WII			45.980			24.11	0	6.0	1½
1915											
Aug. 10	An.	EI			45.970			25.49	0	7.0	3
12	Fn.	EI			45.991			25.76	0	7.0	3
17	An.	WI			46.007			24.55	0	7.0	3½
18	Wy.	WI			45.975			26.02	0	6.5	3
Mean------	1913.63		22	9	45.971	−16	15	24.73			
Corr----------					−0.081			−0.11			

1 H. Lacertæ

			h	m	s	°	′	″			
1915											
Sept. 10	Hd.	WI	22	10	0.862	+39	16	-----	I	4.4	2
Oct. 11	Fn.	WI			0.895			-----	0	5.0	2
25	Hd.	WI			0.874			-----	I	3.9	2
28	Hd.	EI			0.923			-----	I	4.4	2
Nov. 9	Hd.	WI			0.881			-----	I	4.4	3
1916											
Oct. 20	Fn.	WI			0.822			-----	0	---	3
21	Hd.	WI			0.782			-----	I	3.9	3
Nov. 15	Hd.	WI			0.877			-----	I	4.9	3
Dec. 22	*Hd.*	*WI*			*0.861*			-----	*0*	---	*3*
1917											
Nov. 16	Fn.	WII			0.858			-----	0	5.0	2
19	Hd.	WII			0.862			-----	I	4.4	2
Mean------	1916.52		22	10	0.864	+39	16	-----			
Corr----------					−0.081			-----			

Lalande 43396

			h	m	s	°	′	″			
1912											
Sept. 14	R.	WII	22	10	14.192	+3	50	5.46	0	---	1
17	R.	WII			14.172			5.83	0	7.0	1½
30	R.	EII			14.236			5.86	0	---	1½
Oct. 3	Hd.	EII			14.191			5.94	0	6.5	2
1914											
Aug. 8	Wy.	EI			14.188			6.13	0	7.5	3
13	Hd.	WI			14.204			6.89	0	6.5	3
15	Fn.	WI			14.177			6.20	0	---	3
Sept. 19	Wy.	EI			14.158			5.99	0	7.0	2½
Mean------	1913.68		22	10	14.190	+3	50	6.04			
Corr----------					−0.081			−0.19			

Weisse$_2$ XXII 186

			h	m	s	°	′	″			
1911											
Aug. 18	Fn.	EII	22	10	34.234	+22	4	36.09	0	---	2
21	Fn.	EII			34.182			36.15	0	6.7	2
Sept. 12	Hd.	WII			34.232			35.21	0	7.0	2
13	R.	WII			34.189			35.39	0	6.0	1

			h	m	s	°	′	″			
1915											
July 9	Fn.	WI			34.210			35.17	0	7.0	2½
17	An.	WI			34.205			35.97	0	6.0	3
22	Fn.	EI			34.249			35.02	0	7.0	2½
23	Hd.	EI			34.207			35.52	0	6.5	3
Mean	1913.61		22	10	34.214	+22	4	35.56			
Corr					−0.081			−0.23			

Groombridge 3725

			h	m	s	°	′	″			
1912											
July 26	R.	WII	22	10	57.466	+42	30	26.24	0	6.0	2
30	R.	WII			57.457			26.54	0	6.5	3
Aug. 10	R.	EII			57.448			25.97	0	5.5	3
12	Fn.	EII			57.446			25.97	0	---	2
1914											
Sept. 23	An.	EI			57.467			24.95	0	6.5	3
25	Wy.	EI			57.444			25.88	0	6.0	3
Oct. 1	Hd.	WI			57.461			26.77	0	6.0	2
2	Wy.	WI			57.425			26.09	0	6.0	2½
Mean	1913.67		22	10	57.452	+42	30	26.05			
Corr					−0.081			−0.28			

θ Aquarii

			h	m	s	°	′	″			
			22	12	5.152	−8	13	54.17			
1912											
Oct. 16	Fn.	WII			+0.073			−0.65	I	4.1	2
26	Fn.	EII			+0.062			+0.37	0	4.6	2½
27	R.	EII			+0.054			−0.01	I	3.9	2½
Nov. 2	R.	WII			+0.115			−0.24	0	---	3
1914											
Aug. 18	Wy.	WI			+0.103			−0.68	I	3.1	3
20	Fn.	WI			+0.077			−1.00	0	---	3
Sept. 20	An.	EI			+0.076			−0.26	I	3.9	2½
21	Hd.	EI			+0.073			−0.10	I	3.9	3
Mean	1913.75				+0.079			−0.32			
Corr					−0.081			−0.15			

Bradley 2931

			h	m	s	°	′	″			
1911											
Aug. 22	R.	EII	22	12	24.714	−5	50	12.91	0	6.0	1
Sept. 20	R.	WII			24.721			13.19	0	6.0	1½
25	Fn.	EII			24.690			12.75	0	5.6	2½
Oct. 11	Hd.	WII			24.691			13.08	0	6.0	3
1915											
July 24	An.	EI			24.674			11.82	0	6.0	2½
Aug. 9	Fn.	EI			24.656			12.23	0	6.0	2½
19	Fn.	WI			24.704			13.13	0	6.0	2
23	Wy.	WI			24.673			13.01	0	6.0	2½
Mean	1913.66		22	12	24.690	−5	50	12.76			
Corr					−0.081			−0.16			

Weisse$_1$ XXII 196

			h	m	s	°	′	″			
1912											
Aug. 24	R.	WII	22	12	45.438	+12	26	48.13	0	7.0	2
Sept. 10	R.	EII			45.419			47.86	0	7.0	1½
29	R.	EII			45.416			48.03	0	8.0	1
1914											
Aug. 30	Wy.	WI			45.506			47.79	0	7.0	2½
Sept. 14	Fn.	EI			45.540			48.77	0	7.0	2
Mean	1913.49		22	12	45.464	+12	26	48.12			
Corr					−0.081			−0.21			

Piazzi XXII 65[1]

			h	m	s	°	′	″			
1911											
Sept. 26	Hd.	EII	22	14	59.321	+37	19	0.73	0	6.2	2½
29	Hd.	EII			59.371			0.96	0	---	3
Oct. 12	R.	WII			59.357			1.53	0	7.0	1½
13	Hd.	WII			59.362			0.85	0	6.8	2
1915											
Aug. 14	Wy.	EI			59.360			0.63	0	7.0	2
16	Fn.	EI			59.380			1.06	0	7.0	2
18	Wy.	WI			59.379			1.65	0	7.0	2
25	Wy.	WI			59.413			1.83	0	7.0	3
Mean	1913.70		22	14	59.368	+37	19	1.16			
Corr					−0.081			−0.26			

Bradley 2947

			h	m	s	°	′	″			
1911											
Sept. 30	R.	EII	22	15	16.55	+62	21	11.21	I	4.4	1
Oct. 4	Fn.	EII			16.35			11.08	0	---	3
23	R.	WII			16.43			11.53	0	6.0	3
24	Fn.	WII			16.41			12.31	0	5.8	2
1915											
Aug. 26	Hd.	WI			16.47			11.35	0	---	2
Sept. 1	Hd.	WI			16.50			10.72	0	---	3
13	Hd.	EI			16.49			11.28	0	6.0	2
14	Wy.	EI			16.52			11.35	0	6.0	2
Mean	1913.73		22	15	16.465	+62	21	11.35			
Corr					−0.081			−0.32			

47 Aquarii

			h	m	s	°	′	″			
1912											
Sept. 12	R.	WII	22	16	38.512	−22	2	59.35	I	4.9	1½
17	R.	WII			38.495			59.27	0	6.0	2½
30	R.	EII			38.555			58.29	0	5.5	2
Oct. 1	R.	EII			38.505			59.16	0	5.5	3
1914											
Aug. 6	Fn.	EI			38.566			59.42	0	6.0	2½
7	Hd.	EI			38.534			59.07	0	6.0	3
13	Hd.	WI			38.528			59.08	0	6.0	3
15	Fn.	WI			38.536			58.68	0	6.0	4
Mean	1913.67		22	16	38.529	−22	2	59.04			
Corr					−0.081			−0.06			

Groombridge 3746

			h	m	s	°	′	″			
1911											
July 31	Fn.	WII	22	16	47.848	+56	27	54.10	0	---	3
Aug. 8	R.	EII			47.901			54.76	0	6.0	2
9	Fn.	EII			47.866			54.67	0	6.5	2½
Sept. 1	Fn.	WII			47.955			54.49	0	6.9	2½
1915											
July 9	Fn.	WI			47.919			55.46	0	7.0	3
17	An.	WI			47.942			54.90	0	7.0	3
22	Fn.	EI			47.954			54.81	0	6.5	2
23	Hd.	EI			47.954			54.97	0	6.5	2
Mean	1913.58		22	16	47.917	+56	27	54.77			
Corr					−0.081			−0.30			

Weisse$_2$ XXII 326

			h	m	s	°	′	″			
1911											
Aug. 10	R.	EII	22	16	56.090	+30	51	25.12	0	7.5	1
15	R.	EII			56.194			25.61	0	7.5	2
Sept. 2	R.	WII			56.142			26.14	0	7.0	2
12	Hd.	WII			56.144			25.68	0	7.0	2
1915											
Sept. 9	Wy.	WI			56.123			25.84	0	7.5	2½
10	Hd.	WI			56.155			25.82	0	7.0	2
15	Hd.	EI			56.172			25.33	0	7.0	2
16	Wy.	EI			56.249			25.17	0	7.5	2½
Mean	1913.68		22	16	56.159	+30	51	25.59			
Corr					−0.081			−0.25			

[1] Double; n. fol. component observed.

γ Aquarii

				h m s	° ′ ″			
				22 17 0.527	−1 50 27.70			
1911								
Dec.	2	Hd.	WII	+0.021	−0.10	I	---	4
1912								
July	26	R.	WII	+0.089	−0.31	I	4.4	3
	30	R.	WII	+0.053	−0.34	I	4.4	4
Aug.	3	R.	EII	+0.055	+0.66	I	4.4	3
	6	R.	EII	+0.063	−0.26	I	4.4	1
	10	R.	EII	+0.075	−1.01	I	4.4	2
	29	R.	WII	+0.055	−0.33	0	---	3
Sept.	10	R.	EII	+0.084	−0.59	I	---	1
	14	R.	WII	+0.040	−0.35	0	---	2
	29	R.	EII	+0.077	−0.43	0	---	3
Oct.	2	R.	EII	+0.070	−0.26	I	3.4	2
	14	Fn.	WII	+0.050	−0.23	0	---	2½
	16	Fn.	WII	+0.093	----	I	3.6	2
	26	Fn.	EII	+0.044	----	I	3.7	2½
1914								
Sept.	13	Wy.	EI	+0.051	----	I	3.4	2
	14	Fn.	EI	+0.084	----	I	3.9	2½
	16	Wy.	EI	+0.075	----	I	---	3
	17	Fn.	EI	+0.048	----	0	---	2½
	20	An.	EI	+0.072	----	I	3.9	2½
	21	Hd.	EI	+0.068	----	I	3.4	3
	22	Wy.	EI	+0.046	−0.10	I	3.9	2½
	23	An.	EI	+0.122	----	I	2.9	3½
	25	Wy.	EI	+0.063	----	I	3.9	3
	26	An.	EI	+0.059	----	I	3.9	2½
	28	Hd.	WI	+0.073	----	I	3.4	2
	29	Wy.	WI	+0.086	----	I	3.4	2½
	30	An.	WI	+0.057	----	I	4.4	2½
Oct.	1	Hd.	WI	+0.055	----	I	3.4	2
	2	Wy.	WI	+0.042	----	I	3.4	2½
	5	Wy.	WI	+0.059	----	I	4.4	3
	6	Hd.	WI	+0.099	----	I	---	3
	9	Hd.	WI	+0.059	−0.49	I	4.4	2
	10	An.	WI	+0.075	−0.72	I	3.9	2½
	12	Hd.	WI	+0.069	−0.05	I	3.4	2½
	17	An.	EI	+0.082	+0.13	0	---	3½
	19	Hd.	EI	+0.084	+0.11	I	---	2
	21	An.	EI	+0.031	−0.66	I	---	3
	22	Hd.	EI	+0.043	−0.32	I	---	3
	23	Fn.	EI	+0.018	+0.11	I	3.9	2½
	28	An.	EI	+0.050	−0.38	0	---	3½
	30	Hd.	EI	+0.048	−0.90	I	3.4	3½
	31	An.	EI	+0.065	−0.49	I	4.4	3
Nov.	2	Fn.	WI	+0.057	−0.66	0	---	2½
	3	An.	WI	+0.015	−0.33	I	---	3½
	4	Hd.	WI	+0.051	−0.11	I	3.9	3
	11	Hd.	WI	+0.112	----	I	---	---
	19	Wy.	EI	+0.089	----	I	3.4	2½
	24	Wy.	EI	+0.080	----	I	3.4	3½
1915								
Sept.	24	Wy.	EI	+0.062	−0.44	I	4.4	3
Oct.	9	Fn.	WI	+0.066	−1.31	I	4.4	3
	11	Fn.	WI	+0.052	−0.38	I	3.9	2½
	12	Wy.	WI	+0.057	−0.37	I	4.4	3
	13	Hd.	WI	+0.073	−0.11	0	---	3
	23	Fn.	WI	+0.069	−0.37	I	4.4	2½
	25	Hd.	WI	+0.065	−0.39	I	4.4	2
	27	Wy.	WI	+0.071	−0.91	I	4.4	3½
	28	Hd.	EI	+0.071	−0.01	I	3.9	2
	29	Fn.	EI	+0.063	−0.74	I	4.4	3½
Nov.	1	Fn.	EI	+0.046	−0.61	0	4.5	3½
Mean			1914.46	+0.064	−0.37			
			1914.40					
Corr				−0.081	−0.17			

31 Pegasi

				h m s	° ′ ″			
				22 17 5.294	+11 45 5.03			
1911								
Aug.	16	Fn.	EII	+0.004	−0.83	0	---	2½
	18	Fn.	EII	+0.006	+0.51	0	5.0	2
Oct.	16	Fn.	WII	+0.010	+0.67	I	4.5	2
	18	Fn.	WII	−0.034	+0.79	I	4.5	2
1915								
Sept.	3	Hd.	WI	−0.043	+0.88	0	6.0	2½
	7	Wy.	WI	−0.019	+0.43	0	---	3
	8	Hd.	WI	−0.022	−0.03	I	4.9	2
	20	Hd.	EI	−0.021	−0.12	0	---	3
	22	Hd.	EI	−0.030	+0.32	I	4.9	2½
Mean			1913.92	−0.017	+0.29			
Corr				−0.081	−0.21			

Bradley 2949

				h m s	° ′ ″			
1912								
Aug.	1	R.	WII	22 19 37.929	−13 59 9.28	D	7.5	3
	7	Fn.	EII	37.958	8.82	0	---	2
	12	Fn.	EII	37.925	9.90	0	6.4	2½
	20	R.	WII	37.952	8.95	0	---	1½
	23	Fn.	WII	37.904	9.70	0	6.3	3
1914								
Sept.	5	Wy.	WI	------	9.12	0	6.0	2½
	10	An.	EI	37.969	9.85	0	7.0	3
	13	Wy.	EI	37.948	9.10	0	6.0	3
	14	Fn.	EI	37.956	8.94	0	5.5	3
	30	An.	WI	37.986	8.19	0	6.5	3½
Oct.	2	Wy.	WI	37.919	8.11	0	6.0	2½
Mean			1913.67	22 19 37.945	−13 59 9.09			
			1913.76					
Corr				−0.081	−0.12			

3 Lacertæ

				h m s	° ′ ″			
				22 20 1.145	+51 46 39.73			
1912								
Aug.	24	R.	WII	−0.022	−0.18	I	4.4	2
	27	R.	WII	+0.026	−0.09	I	4.4	1½
Sept.	9	Hd.	EII	−0.076	+0.25	I	3.9	2
Oct.	3	Hd.	EII	−0.076	+0.29	I	3.9	2
1914								
Sept.	16	Wy.	EI	−0.042	−0.76	0	---	2
	17	Fn.	EI	−0.016	−0.31	0	5.5	2
	19	Wy.	EI	+0.010	+0.19	I	4.9	3
	21	Hd.	EI	+0.005	+0.50	I	3.9	2
	28	Hd.	WI	−0.001	+0.81	I	3.9	2
	29	Wy.	WI	−0.036	+0.55	I	3.9	2
Mean			1913.91	−0.023	+0.12			
Corr				−0.081	−0.29			

32 H. Cephei

				h m s	° ′ ″			
1912								
Oct.	16	Fn.	WII	22 20 36.38	+85 39 20.22	0	5.4	2½
	26	Fn.	EII	35.41	20.56	0	5.3	3
	27	R.	EII	36.35	20.70	0	5.5	5
Nov.	2	R.	WII	36.09	19.35	0	---	2
1914								
Sept.	23	An.	EI	-----	20.48	0	6.0	4
	25	Wy.	EI	36.11	20.54	0	6.0	3
	26	An.	EI	-----	20.75	I	4.4	3
Oct.	1	Hd.	WI	35.78	20.95	I	4.9	2
	5	Wy.	WI	36.10	21.15	0	---	3
Mean			1913.64	22 20 36.03	+85 39 20.52			
			1913.89					
Corr				−0.08	−0.39			

32 H. Cephei s. p.

				h m s	° ′ ″			
1912								
Apr.	3	R.	WII	22 20 35.55	+85 39 20.33	0	6.0	2
	10	R.	WII	35.58	19.22	0	---	4½
	11	Fn.	EII	36.05	19.08	0	---	3½
	16	Hd.	EII	35.02	19.53	0	---	3½

				h	m	s	°	′	″			
1915												
Dec. 21	Hd.	WI				35.83			18.79	0	6.0	2
22	Fn.	WI				36.99			18.14	0	6.0	3
1916												
Jan. 3	Wy.	EI				35.98			19.78	0	6.0	3½
7	Wy.	EI				36.41			20.01	0	6.0	3
Mean	1914.14			22	20	35.93	+85	39	19.36			
Corr						−0.08			+0.44			

π Aquarii

				h	m	s	°	′	″			
				22	20	40.845	+0	55	13.31			
1911												
Aug. 21	Fn.	EII				+0.036			+0.11	0	4.9	2½
22	R.	EII				+0.065			+0.86	I	3.9	1½
Sept. 20	R.	WII				+0.048			−0.27	I	4.4	1½
Oct. 11	Hd.	WII				+0.030			+0.01	I	4.4	3
1915												
July 24	An.	EI				+0.054			+0.42	I	5.4	2½
Aug. 9	Fn.	EI				+0.040			+0.27	0	5.0	2½
17	An.	WI				+0.043			+0.58	0	6.0	3
18	Wy.	WI				+0.046			+0.13	I	4.4	3
Mean	1913.65					+0.045			+0.26			
Corr						−0.081			−0.18			

Piazzi XXII 91

				h	m	s	°	′	″			
1912												
Sept. 12	R.	WII		22	21	12.242	−24	8	23.68	0	6.5	2
17	R.	WII				12.224			24.79	0	7.5	3
Oct. 1	R.	EII				12.300			24.61	0	7.0	3½
2	R.	EII				12.261			24.05	0	6.0	2½
1914												
Aug. 30	Wy.	WI				12.256			24.91	0	6.5	3
Sept. 4	Fn.	WI				12.201			24.09	0	7.0	3
20	An.	EI				12.253			24.25	0	7.0	3½
22	Wy.	EI				12.239			23.92	0	7.0	3
Oct. 9	Hd.	WI				12.279			24.53	0	7.0	3
Mean	1913.83			22	21	12.251	−24	8	24.31			
Corr						−0.081			−0.04			

Weisse$_2$ XXII 408

				h	m	s	°	′	″			
1911												
Sept. 26	Hd.	EII		22	21	20.035	+17	59	10.78	0	6.5	--
29	Hd.	EII				20.096			10.35	0	---	3
Oct. 12	R.	WII				20.112			10.65	0	7.0	2
13	Hd.	WII				20.077			10.86	0	6.8	2
1915												
Aug. 13	An.	EI				20.155			11.78	0	6.5	2½
14	Wy.	EI				20.083			10.39	0	7.0	2
25	Wy.	WI				20.137			10.75	0	7.0	3½
26	Hd.	WI				20.111			10.11	0	---	2
Mean	1913.70			22	21	20.101	+17	59	10.71			
Corr						−0.081			−0.23			

Groombridge 3767

				h	m	s	°	′	″			
1911												
Sept. 30	R.	EII		22	21	27.250	+50	47	53.99	0	5.5	1
Oct. 4	Fn.	EII				27.190			53.12	0	6.8	3
18	Fn.	WII				27.177			53.52	0	5.6	2
23	R.	WII				27.167			54.24	0	7.0	1½
1915												
July 9	Fn.	WI				27.200			53.75	0	7.0	3
17	An.	WI				27.222			53.37	0	7.0	2½
22	Fn.	EI				27.289			54.00	0	7.0	2
23	Hd.	EI				27.216			53.93	0	7.0	2
Mean	1913.66			22	21	27.214	+50	47	53.74			
Corr						−0.081			−0.29			

Bradley 2962

				h	m	s	°	′	″			
1912												
July 26	R.	WII		22	24	38.541	+8	40	9.21	0	6.0	2
30	R.	WII				38.517			9.80	0	6.0	3
Aug 3	R.	EII				38.557			9.02	0	5.5	2½
6	R.	EII				38.522			8.53	0	6.0	1½
1914												
Aug. 4	Wy.	EI				38.509			9.60	0	6.0	2½
7	Hd.	EI				38.533			9.21	0	6.5	2
13	Hd.	WI				38.542			9.58	I	4.9	2
15	Fn.	WI				38.526			10.02	0	5.5	3½
Mean	1913.60			22	24	38.531	+8	40	9.37			
Corr						−0.081			−0.21			

Oeltzen 22181

				h	m	s	°	′	″			
1911												
July 31	Fn.	WII		22	24	44.166	−27	34	4.61	0	6.5	3
Aug. 9	Fn.	EII				44.154			2.98	0	---	2½
10	R.	EII				44.185			4.33	0	5.5	3
Sept. 1	Fn.	WII				44.132			4.76	0	---	2½
1915												
Aug. 10	An.	EI				44.141			3.64	0	7.0	3
12	Fn.	EI				44.176			4.22	0	6.5	3
19	Fn.	WI				44.169			5.05	D	7.0	3
Sept. 8	Hd.	WI				44.182			4.89	0	6.0	3
Mean	1913.62			22	24	44.163	−27	34	4.31			
Corr						−0.081			0.00			

Piazzi XXII 120

				h	m	s	°	′	″			
1912												
Aug. 12	Fn.	EII		22	24	57.144	+26	18	10.42	0	---	2
20	R.	WII				57.175			10.53	0	---	2
23	Fn.	WII				57.136			10.13	0	---	2½
Sept. 9	Hd.	EII				57.127			10.40	0	5.8	2
1914												
Aug. 8	Wy.	EI				57.122			10.00	0	6.0	2½
17	Fn.	WI				57.184			9.88	0	6.5	2
18	Wy.	WI				57.165			10.00	0	---	3
20	Fn.	WI				57.165			10.25	0	6.0	2½
Sept. 9	Fn.	EI				57.142			9.31	D	5.5	2
Mean	1913.75			22	24	57.151	+26	18	10.10			
Corr						−0.081			−0.24			

δ Cephei

				h	m	s	°	′	″			
1912												
Aug. 1	R.	WII		22	25	49.629	+57	57	15.42	I	4.4	4
7	Fn.	EII				49.576			16.33	I	2.7	2
10	R.	EII				49.587			15.59	I	4.4	2
24	R.	WII				49.694			15.61	I	3.9	1
1914												
Sept. 16	Wy.	EI				49.649			15.12	I	---	2½
19	Wy.	EI				49.689			15.16	I	3.9	2½
20	An.	EI				49.607			14.85	I	2.9	2½
28	Hd.	WI				49.676			16.52	I	3.9	2
29	Wy.	WI				49.619			16.22	I	2.9	2
Mean	1913.79			22	25	49.636	+57	57	15.65			
Corr						−0.081			−0.31			

σ Aquarii

				h	m	s	°	′	″			
				22	25	53.150	−11	8	19.48			
1911												
Aug. 15	R.	EII				+0.044			−1.05	0	5.0	2
16	Fn.	EII				−0.002			−0.90	0	5.3	3
Sept. 2	R.	WII				−0.006			−0.12	0	5.5	3
12	Hd.	WII				+0.030			+0.14	I	4.4	3

				s				
1915								
July 9	Fn.	WI		+0.026	−1.17	0	5.0	3½
23	Hd.	EI		+0.029	−0.08	0	6.0	3
24	An.	EI		+0.030	−0.16	I	5.4	2½
Aug. 17	An.	WI		+0.027	−0.32	0	6.0	3½
Mean	1913.61			+0.022	−0.46			
Corr				−0.081	−0.14			

38 Pegasi

			h	m	s	°	′	″			
1915											
Sept. 7	Wy.	WI	22	25	54.741	+32	6	-----	0	---	2½
Oct. 25	Hd.	WI			54.731			-----	0	6.0	2
28	Hd.	EI			54.763			-----	0	6.0	2
Nov. 1	Fn.	EI			54.729			-----	0	6.0	3½
9	Hd.	WI			54.765			-----	0	6.0	2½
1916											
Oct. 17	Fn.	WI			54.726			-----	0	6.0	3
21	Hd.	WI			54.671			-----	0	6.0	3
Nov. 15	Hd.	WI			54.745			-----	0	6.0	3
Dec. 1	Fn.	EI			54.765			-----	0	---	3
22	*Hd.*	*WI*			*54.706*			-----	*0*	---	*3*
1917											
Nov. 16	Fn.	WII			54.747			-----	0	---	2½
19	Hd.	WII			54.728			-----	0	5.5	2
Mean	1916.56		22	25	54.737	+32	6	-----			
Corr					−0.081			-----			

β Piscis Australis

			h	m	s	°	′	″			
1912											
Sept. 12	R.	WII	22	26	23.593	−32	48	28.26	I	4.4	2½
14	R.	WII			23.546			28.73	0	---	1
30	R.	EII			23.658			26.91	I	4.9	2½
Oct. 1	R.	EII			23.592			26.86	0	---	5
2	R.	EII			23.574			27.77	0	6.0	3
1914											
Sept. 4	Fn.	WI			23.589			28.44	0	4.5	4
5	Wy.	WI			23.600			28.34	0	5.5	3½
10	An.	EI			23.620			27.61	0	---	3
13	Wy.	EI			23.609			27.72	0	5.5	4
14	Fn.	EI			23.595			27.64	0	4.5	3
Mean	1913.71		22	26	23.598	−32	48	27.83			
Corr					−0.081			+0.09			

Weisse$_1$ XXII 494

			h	m	s	°	′	″			
1911											
Aug. 18	Fn.	EII	22	26	39.306	−3	22	20.19	0	---	2
21	Fn.	EII			39.279			21.02	0	6.5	2½
Sept. 20	R.	WII			39.304			21.67	0	6.0	1½
Oct. 11	Hd.	WII			39.289			21.35	0	5.8	3
1915											
Aug. 14	Wy.	EI			39.361			20.85	0	7.0	2½
16	Fn.	EI			39.332			21.16	0	7.0	2½
18	Wy.	WI			39.300			21.99	0	6.5	3
25	Wy.	WI			39.322			21.35	0	7.0	3½
Mean	1913.66		22	26	39.312	−3	22	21.20			
Corr					−0.081			−0.17			

Bradley 2967

			h	m	s	°	′	″			
1912											
Oct. 5	Hd.	EII	22	26	55.136	−11	22	2.02	0	6.0	2
8	Hd.	WII			55.133			1.60	0	---	3
9	Hd.	WII			55.142			1.98	0	7.0	2
26	Fn.	EII			55.146			1.51	0	7.0	2½
1914											
Sept. 26	An.	EI			55.178			1.30	0	7.0	3
30	An.	WI			55.131			1.20	0	6.5	3
Oct. 1	Hd.	WI			55.211			0.46	0	6.5	2½
19	Hd.	EI			55.164			1.61	0	---	2
Mean	1913.77		22	26	55.155	−11	22	1.46			
Corr					−0.081			−0.14			

B. D.+38° 4787

			h	m	s	°	′	″			
1916											
Sept. 25	Wy.	EI	22	27	-----	+38	46	57.61	0	7.5	3
Oct. 10	Fn.	WI			-----			57.08	0	7.0	2
17	Fn.	WI			-----			57.43	0	7.5	3
Nov. 2	Hd.	EI			-----			57.88	0	7.5	3
Mean	1916.79		22	27	-----	+38	46	57.50			
Corr					-----			−0.27			

α Lacertæ

			h	m	s	°	′	″			
			22	27	35.020	+49	49	10.32			
					s			″			
1912											
Aug. 27	R.	WII			−0.034			+0.65	I	3.9	2
29	R.	WII			−0.043			+0.33	0	---	2
Sept. 10	R.	EII			−0.078			+0.59	I	3.4	1½
29	R.	EII			−0.093			+0.71	0	---	1½
1914											
Aug. 30	Wy.	WI			−0.019			+1.20	I	3.9	2
31	Fn.	WI			−0.016			+1.24	I	---	2
Sept. 21	Hd.	EI			−0.045			+0.27	I	3.4	3
22	Wy.	EI			−0.024			+0.61	I	3.4	2
1916											
Oct. 6	Wy.	WI			−0.041			+0.72	I	3.9	3
23	Wy.	WI			−0.094			+0.71	I	4.4	2½
Nov. 3	Fn.	EI			−0.034			+1.02	I	3.9	2½
10	Fn.	EI			−0.091			+1.30	I	3.9	2½
24	Fn.	WI			−0.057			+0.27	0	---	3
Dec. 29	*Hd.*	*WI*			*−0.105*	*+1.31*		*+1.30*	*0*	---	*2½*
1917											
Jan. 2	*Wy.*	*WI*			*−0.019*	*+0.26*		*+0.25*	*0*	---	*3*
19	*Hd.*	*EI*			*+0.006*	*+0.35*		*+0.31*	*0*	---	*2½*
Apr. 8	*Hd.*	*WI*			*−0.053*	*+1.31*		*+1.28*	*0*	---	*3*
22	*Wy.*	*EI*			*+0.004*	*+0.16*		*+0.16*	*0*	---	*3½*
Sept. 18	Wy.	EII			−0.026			−0.03	I	3.4	2
Oct. 2	Fn.	WII			−0.087			+0.86	I	3.9	2½
4	Hd.	WII			−0.079			−0.02	I	3.9	2
15	Fn.	EII			−0.012			+0.20	0	4.5	3
16	Wy.	EII			−0.063			−0.11	I	3.9	2½
22	Hd.	EII			−0.045			+0.48	I	3.9	3
25	Hd.	EII			−0.029			+0.07	I	4.4	2
Nov. 2	Fn.	EII			−0.018			−0.43	I	3.9	2½
20	Fn.	WII			−0.082			+0.85	I	4.4	2½
1918											
May 1	*Fn.*	*EII*			*−0.033*	*+0.54*		*+0.54*	*0*	---	*3*
Mean	1916.08				−0.050			+0.52			
Corr					−0.081			−0.29			

Groombridge 3804

			h	m	s	°	′	″			
1911											
Sept. 29	Hd.	EII	22	28	27.565	+39	18	59.72	0	---	3
30	R.	EII			27.656			60.05	0	6.0	1
Oct. 16	Fn.	WII			27.566			59.16	0	5.8	3
18	Fn.	WII			27.525			59.73	0	6.2	3
1914											
Oct. 9	Hd.	WI			27.609			59.73	0	6.0	2
10	An.	WI			27.585			60.18	0	7.0	2
12	Hd.	WI			27.584			59.80	0	6.0	3
20	Hd.	EI			27.569			60.16	0	6.5	2
22	Hd.	EI			27.527			60.17	0	6.5	3
Mean	1913.45		22	28	27.576	+39	18	59.86			
Corr					−0.081			−0.27			

υ Aquarii

			h	m	s	°	′	″			
			22	29	46.359	−21	10	11.22			
1911											
July 31	Fn.	WII			+0.113			+0.16	0	---	3
Aug. 8	R.	EII			+0.108			+0.23	0	---	4
9	Fn.	EII			+0.078			−0.22	0	5.5	3½
Sept. 1	Fn.	WII			+0.090			+0.43	0	5.5	2½

				s	″				
1913									
Aug.	14	R.–Fn.	WII	-----	−0.79	0	---	2½	R.
	14	R.–Fn.	WII	-----	+0.80	0	5.5	1½	
	15	Fn.–R.	WII	-----	−0.28	0	---	2½	R.
	15	Fn.–R.	WII	-----	+0.66	0	5.5	2½	
	16	Fn.–R.	WII	-----	−0.24	0	---	3	R.
	16	Fn.–R.	WII	-----	−0.42	0	5.5	3	
	17	R.–Fn.	WII	-----	−0.32	0	---	4	R.
	17	R.–Fn.	WII	-----	+0.19	0	6.0	4	
	20	R.–Fn.	EII	-----	−0.60	0	---	2	R.
	20	R.–Fn.	EII	-----	+0.44	I	4.4	2	
	25	R.–Fn.	EII	-----	−0.53	0	---	2½	R.
	25	R.–Fn.	EII	-----	+0.35	I	4.9	2½	
	31	Fn.–R.	EII	-----	−0.28	0	---	3	R.
	31	Fn.–R.	EII	-----	+0.47	0	5.5	2½	
Sept.	4	Fn.–R.	EII	-----	−0.39	0	---	2½	R.
	4	Fn.–R.	EII	-----	+1.11	0	5.5	2½	
1915									
Aug.	9	Fn.	EI	+0.108	+0.25	0	6.5	2½	
	10	An.	EI	+0.111	+0.43	0	6.0	3	
	19	Fn.	WI	+0.115	−0.32	0	6.0	2½	
	26	Hd.	WI	+0.163	−0.06	0	---	3½	
Sept.	3	Hd.	WI	+0.136	−0.13	0	7.0	3	
Mean		1913.85		+0.114	+0.26				
		1913.75							
Corr				−0.081	−0.07				

226 B. Cephei

h m s 22 30 41.755 ° ′ ″ +75 45 45.20

1912									
July	26	R.	WII	−0.26	+0.97	0	6.0	2	
	30	R.	WII	−0.11	+1.02	0	7.0	3	
Aug.	3	R.	EII	−0.19	−0.07	0	6.5	--	
	6	R.	EII	−0.14	+0.30	0	6.5	2	
1914									
Aug.	6	Fn.	EI	−0.08	−0.41	0	6.0	2½	
	7	Hd.	EI	−0.03	−0.04	0	6.0	3	
	8	Wy.	EI	−0.16	−0.08	0	6.5	2½	
	13	Hd.	WI	−0.03	+0.78	0	6.0	2½	
	15	Fn.	WI	−0.26	+0.60	0	---	3	
Mean		1913.71		−0.140	+0.34				
Corr				−0.081	−0.35				

226 B. Cephei s. p.

h m s 22 30 41.757 ° ′ ″ +75 45 45.20

1912									
Mar.	7	Fn.	WII	−0.24	+0.47	0	---	---	
	13	Fn.	EII	+0.16	−1.45	0	6.2	3½	
	16	Fn.	EII	−0.06	−1.10	0	6.2	3½	
	31	Hd.	WII	−0.13	−0.91	0	6.0	4	
1915									
Mar.	29	Fn.	EI	−0.14	−1.51	0	6.5	4½	
	30	Wy.	EI	−0.13	−2.35	0	---	4	
	31	An.	EI	----	−0.78	0	---	---	
Apr.	21	An.	WI	----	−0.31	0	---	3	
Mean		1913.22		−0.090	−0.99				
		1913.73							
Corr				−0.081	+0.52				

η Aquarii

h m s 22 30 43.942 ° ′ ″ −0 34 53.98

1912									
Aug.	12	Fn.	EII	+0.043	----	0	4.8	2	
	20	R.	WII	+0.050	+0.04	I	4.4	1½	
	23	Fn.	WII	+0.063	+0.31	0	5.0	2½	
Sept.	9	Hd.	EII	+0.072	+0.05	I	3.9	2	

				s	″				
1914									
Aug.	17	Fn.	WI	+0.028	−0.28	0	4.5	2	
	18	Wy.	WI	+0.048	−0.77	I	3.9	2½	
Sept.	9	Fn.	EI	+0.054	−0.97	I	3.9	3	
	14	Fn.	EI	+0.034	+0.37	I	4.4	2½	
Mean		1913.66		+0.049	−0.18				
		1913.80							
Corr				−0.081	−0.18				

Bradley 2978

				h m s	° ′ ″				
1911									
Aug.	10	R.	EII	22 30 58.264	−17 55 30.44	0	6.0	2	
	15	R.	EII	58.228	30.48	0	6.0	3	
Sept.	2	R.	WII	58.234	30.78	0	---	2½	
Oct.	23	R.	WII	58.200	31.32	0	7.0	2	
1915									
July	17	An.	WI	58.221	32.23	0	7.0	3½	
	23	Hd.	EI	58.177	30.51	0	6.5	3	
	24	An.	EI	58.198	30.11	0	6.0	3	
Aug.	18	Wy.	WI	58.233	30.72	0	7.0	3	
Mean		1913.62		22 30 58.219	−17 55 30.82				
Corr				−0.081	−0.09				

Groombridge 3829

				h m s	° ′ ″				
1911									
Aug.	16	Fn.	EII	22 32 8.977	+49 36 16.67	0	6.7	3	
	18	Fn.	EII	8.961	16.57	0	---	2	
Sept.	12	Hd.	WII	8.961	16.42	0	6.3	2	
	20	R.	WII	8.951	15.40	0	6.5	1	
1915									
Aug.	31	Wy.	WI	8.937	16.33	0	---	3	
Sept.	1	Hd.	WI	8.939	16.75	0	---	2	
	13	Hd.	EI	8.973	16.37	0	6.0	2	
	14	Wy.	EI	8.984	16.60	0	6.5	2	
Mean		1913.68		22 32 8.960	+49 36 16.39				
Corr				−0.081	−0.29				

κ Aquarii

				h m s	° ′ ″				
1912									
Oct.	5	Hd.	EII	22 33 5.800	−4 41 33.27	I	4.9	2	
	8	Hd.	WII	5.781	33.22	0	5.7	3	
	9	Hd.	WII	5.775	33.73	0	5.5	2	
	26	Fn.	EII	5.786	33.89	0	5.3	2½	
1914									
Aug.	20	Fn.	WI	5.783	34.62	0	5.5	2½	
	22	An.	WI	5.791	33.05	I	3.9	2	
	31	Fn.	WI	5.778	33.92	0	---	2	
Sept.	17	Fn.	EI	5.734	33.40	0	---	2	
	20	An.	EI	5.840	33.79	0	5.0	2½	
Mean		1913.83		22 33 5.785	−4 41 33.65				
Corr				−0.081	−0.16				

Weisse$_2$ XXII 692

				h m s	° ′ ″				
1911									
Oct.	24	Fn.	WII	22 33 16.019	+23 32 3.64	0	6.5	2	
	25	Hd.	WII	16.045	3.51	0	6.5	2½	
	30	Hd.	EII	16.053	3.89	0	---	2½	
Nov.	2	Fn.	EII	15.994	2.92	0	6.4	2	
	3	Hd.	EII	16.016	3.94	0	6.5	1	
1915									
Sept.	7	Wy.	WI	16.040	3.81	0	7.0	3	
	8	Hd.	WI	15.986	3.62	0	7.0	2	
	15	Hd.	EI	16.018	3.20	0	6.5	2½	
	20	Hd.	EI	16.011	2.92	0	---	3	
Mean		1913.55		22 33 16.020	+23 32 3.49				
Corr				−0.081	−0.24				

31 Cephei

			h m s	° ′ ″			
1912							
Aug. 31	R.	WII	22 33 32.79	+73 10 32.97	0	6.0	2½
Sept. 10	R.	EII	32.81	33.42	I	4.9	1
12	R.	WII	32.75	33.73	0	5.5	1
27	Hd.	EII	32.74	33.51	0	5.5	3
1914							
Sept. 5	Wy.	WI	33.01	33.10	I	5.4	2½
10	An.	EI	32.86	34.47	0	5.5	2
13	Wy.	EI	32.99	33.62	0	5.5	2½
14	Fn.	EI	33.04	33.92	0	5.0	2
28	Hd.	WI	32.98	33.37	I	4.9	2
Mean	1913.81		22 33 32.886	+73 10 33.57			
Corr			−0.081	−0.35			

31 Cephei s. p.

			h m s	° ′ ″			
1913							
Jan. 25	R.	EII	22 33 32.90	+73 10 32.84	0	6.0	2½
27	Fn.	EII	33.09	31.60	0	5.5	4
30	R.	WII	32.98	33.13	0	6.0	4½
Feb. 4	R.	WII	32.81	32.38	0	---	2½
1914							
Jan. 9	R.	EI	32.81	34.12	0	---	3
28	Fn.	WI	32.89	33.04	0	---	4
31	Fn.	WI	32.93	31.87	0	5.5	3½
Feb. 9	Hd.	EI	32.80	32.62	0	---	4
Mean	1913.58		22 33 32.901	+73 10 32.70			
Corr			−0.081	+0.56			

Weisse$_1$ XXII 641

			h m s	° ′ ″			
1912							
Sept. 20	Hd.	WII	22 33 38.949	−8 21 55.74	0	6.0	2
30	R.	EII	38.969	[54.03][1]	0	5.5	2
Oct. 1	R.	EII	38.952	56.40	0	6.0	3
11	Hd.	WII	38.937	55.81	0	---	2
27	R.	EII	38.969	55.09	0	6.0	2½
1914							
Sept. 23	An.	EI	39.024	55.64	0	7.0	3½
25	Wy.	EI	38.980	55.10	0	7.0	3½
29	Wy.	WI	39.000	55.38	0	7.5	3
30	An.	WI	38.959	55.57	0	7.0	3
Oct. 1	Hd.	WI	38.993	54.82	0	6.5	3
Mean	1913.75		22 33 38.973	−8 21 55.51			
	1913.86						
Corr			−0.081	−0.15			

10 Lacertæ

			h m s	° ′ ″			
			22 35 13.288	+38 34 53.62			
1911							
Aug. 21	Fn.	EII	−0.026	−0.03	0	5.2	1½
22	R.	EII	−0.004	+0.07	0	5.0	1
Oct. 18	Fn.	WII	−0.007	+0.50	I	4.6	3
23	R.	WII	−0.055	+0.64	0	5.5	1½
1914							
Oct. 9	Hd.	WI	−0.047	----	0	6.0	2
12	Hd.	WI	−0.042	----	I	4.4	2
23	Fn.	EI	+0.001	----	0	5.0	2
30	Hd.	EI	+0.032	----	I	4.9	3
Nov. 13	Fn.	WI	−0.096	----	0	---	3½
Dec. 12	An.	WI	−0.028	----	0	---	3
1915							
Aug. 10	An.	EI	-----	+0.78	0	5.5	1½
13	An.	EI	−0.030	+0.60	0	---	2½
17	An.	WI	−0.071	+0.76	I	5.9	2½
25	Wy.	WI	+0.030	+0.10	0	5.5	3½
Sept. 16	Wy.	EI	−0.018	+0.06	I	4.4	2
Oct. 25	Hd.	WI	−0.010	----	0	5.5	2
28	Hd.	EI	−0.012	----	I	4.4	2
Nov. 1	Fn.	EI	−0.058	----	0	5.0	3½
9	Hd.	WI	−0.020	----	I	4.9	2½
1915							
Nov. 13	Fn.	WI	−0.012	----	0	---	3
16	Fn.	WI	−0.045	----	0	5.0	2
22	Fn.	EI	−0.002	----	0	5.5	2½
1916							
Oct. 6	Wy.	WI	+0.027	----	0	6.0	3
17	Fn.	WI	−0.014	----	0	5.0	3
20	Fn.	WI	−0.122	----	0	5.5	3
21	Hd.	WI	−0.109	----	I	4.4	3
Nov. 15	Hd.	WI	−0.080	----	0	6.0	3
24	Fn.	WI	−0.057	----	0	5.0	2½
Dec. 1	Fn.	EI	−0.069	----	0	---	3
22	*Hd.*	*WI*	*−0.055*	----- ----	*0*	---	*3*
1917							
Oct. 25	Hd.	EII	−0.039	----	I	4.9	2
Nov. 6	Fn.	EII	−0.036	----	0	---	3
16	Fn.	WII	−0.075	----	0	5.5	2
19	Hd.	WII	−0.044	----	I	4.4	2
Mean	1915.59		−0.036	+0.39			
	1913.90						
Corr			−0.081	−0.27			

ε Piscis Australis

			h m s	° ′ ″			
			22 35 40.788	−27 30 48.44			
1912							
Oct. 16	Fn.	WII	+0.131	+0.14	0	---	3
28	Fn.	EII	+0.119	[−2.47],	0	5.0	3½
29	R.	EII	+0.114	+1.12	I	---	5
Nov. 2	R.	WII	+0.131	+0.36	0	6.0	3½
1914							
Aug. 30	Wy.	WI	+0.112	+0.46	I	4.9	3½
Sept. 4	Fn.	WI	+0.136	+1.11	0	4.5	3½
21	Hd.	EI	+0.150	+1.65	I	4.9	3
22	Wy.	EI	+0.132	+1.42	I	5.4	3
Mean	1913.76		+0.128	+0.89			
	1913.89						
Corr			−0.081	0.00			

Piazzi XXII 186 *mean*

			h m s	° ′ ″			
1911							
Aug. 8	R.	EII	22 36 25.077	+14 4 32.84	0	5.0	1½
9	Fn.	EII	25.072	33.93	0	---	3½
Sept. 1	Fn.	WII	25.078	33.20	0	5.7	1½
2	R.	WII	25.075	33.92	0	5.5	2½
1915							
July 24	An.	EI	25.137	34.56	0	6.0	2½
Aug. 9	Fn.	EI	25.131	34.16	0	6.0	2
23	Wy.	WI	25.177	33.59	0	6.0	2½
31	Wy.	WI	25.166	33.92	0	---	3
Mean	1913.63		22 36 25.114	+14 4 33.76			
Corr			−0.081	−0.22			

ζ Pegasi

			h m s	° ′ ″			
			22 36 58.408	+10 21 40.47			
1911							
May 22	*Hd.*	*EII*	*+0.040*	---- ----	*0*	---	--
25	*Hd.*	*EII*	*+0.045*	---- ----	*0*	---	--
Sept. 20	R.	WII	−0.005	----	I	3.4	1
Oct. 4	Fn.	EII	+0.074	----	0	---	3½
11	Hd.	WII	+0.038	----	I	3.4	2
12	R.	WII	+0.038	----	I	2.9	1½
Nov. 7	Fn.	EII	+0.033	+0.15	I	3.1	2
13	Hd.	EII	+0.028	+0.16	I	2.9	2
16	Hd.	EII	+0.017	+0.38	I	3.1	2
18	Hd.	EII	+0.045	−0.04	I	2.9	3
22	R.	EII	+0.009	----	I	3.4	1
Dec. 1	Hd.	WII	+0.010	+0.39	I	4.4	2
2	Hd.	WII	+0.049	----	0	---	4
4	R.	WII	+0.027	+1.03	I	3.9	2
5	R.	WII	+0.017	+0.73	I	3.9	2
8	R.	WII	+0.016	----	0	---	1

[1] Readings of micrometer doubtful.

				s	″	″			
1912									
Apr.	*30*	*R.*	*EII*	*+0.025*	----	----	*0*	---	*5*
Aug.	20	R.	WII	+0.053		+0.63	I	3.9	2
	24	R.	WII	+0.027		+0.89	I	3.9	1
Sept.	9	Hd.	EII	+0.042		----	I	3.4	2
	14	R.	WII	+0.010		[+2.01][1]	0	---	1
	29	R.	EII	+0.059		+0.31	0	---	3
Oct.	14	Fn.	WII	+0.068		+0.43	0	---	2½
	30	Fn.	EII	+0.023		+0.35	I	3.2	3
	31	Hd.	EII	+0.029		+0.41	I	---	2
Nov.	5	Fn.	WII	+0.024		−0.01	I	3.4	3
1913									
Apr.	*16*	*R.*	*WII*	*+0.068*	----	----	*0*	---	*3½*
	29	*R.*	*EII*	*+0.022*	*+0.99*	*+0.97*	*0*	---	*3*
Nov.	6	Fn.	EI	+0.014		+0.20	I	3.6	2½
	10	Fn.	WI	+0.029		----	0	---	3½
	12	Hd.	WI	+0.036		+0.50	I	3.4	2½
	17	Fn.	WI	+0.045		+0.83	I	3.4	1½
	19	Hd.	WI	+0.012		----	I	---	3
	21	R.	WI	+0.012		----	II	3.1	2
	22	Hd.	WI	+0.016		----	I	2.9	2
	25	R.	EI	+0.005		----	I	2.9	2
Dec.	3	Hd.	EI	+0.025		----	I	---	3
	4	Fn.	EI	+0.028		----	I	---	2½
	5	Fn.	EI	+0.034		----	I	3.4	3
1914									
Apr.	*17*	*Hd.*	*EI*	*+0.100*	----	----	*0*	---	*3*
	26	*Wy.*	*EI*	*−0.013*	----	----	*0*	---	*3*
Sept.	9	Fn.	EI	+0.013		----	I	3.4	2½
	17	Fn.	EI	+0.006		----	0	---	2
	19	Wy.	EI	+0.013		----	I	3.4	3
Oct.	5	Wy.	WI	+0.024		+0.03	I	3.4	3
	6	Hd.	WI	−0.003		----	I	---	2
	9	Hd.	WI	+0.024		+0.20	I	3.4	2
	10	An.	WI	+0.042		+0.28	I	3.9	2½
	12	Hd.	WI	+0.022		+0.06	I	4.4	2
	17	An.	EI	+0.022		+0.35	0	---	3
	19	Hd.	EI	+0.006		----	I	---	2
	20	Hd.	EI	+0.030		----	I	4.4	3
	21	An.	EI	+0.024		+0.70	I	4.4	3
	22	Hd.	EI	+0.008		----	I	2.9	2½
	23	Fn.	EI	+0.001		+0.76	I	3.9	2
	28	An.	EI	+0.006		----	I	3.4	3
	30	Hd.	EI	+0.025		+0.36	I	3.9	3
Nov.	2	Fn.	WI	+0.027		−0.72	I	3.9	2½
	3	An.	WI	−0.013		+0.22	I	4.9	3½
	4	Hd.	WI	+0.023		----	I	3.4	3
	5	Fn.	WI	+0.063		----	I	3.4	2½
	7	Hd.	WI	+0.046		----	I	3.9	3½
	13	Wy.	WI	+0.041		----	I	3.9	3½
	23	Hd.	EI	−0.011		----	I	3.4	2
	24	Wy.	EI	+0.056		----	I	3.4	3
	25	Fn.	EI	−0.044		----	I	4.4	3½
Dec.	2	Fn.	WI	+0.031		----	0	---	2½
	12	An.	WI	+0.058		----	I	---	3½
1915									
Apr.	*13*	*An.*	*WI*	*+0.034*	----	----	*0*	---	*3½*
	29	*Wy.*	*EI*	*+0.022*	----	----	*0*	---	*3*
May	*5*	*Fn.*	*EI*	*+0.074*	----	----	*0*	---	*3½*
	9	*Hd.*	*EI*	*+0.031*	----	----	*0*	---	*3*
Sept.	10	Hd.	WI	+0.032		+0.16	I	2.9	2
Oct.	9	Fn.	WI	+0.030		−0.37	I	3.4	3
	11	Fn.	WI	+0.032		−1.40	I	3.9	2½
	12	Wy.	WI	+0.039		----	I	3.9	3
	13	Hd.	WI	+0.013		----	0	---	3
	23	Fn.	WI	+0.039		----	I	3.9	2½
	25	Hd.	WI	+0.035		----	I	2.9	2
	27	Wy.	WI	+0.024		----	I	3.9	3
	28	Hd.	EI	+0.011		+0.27	I	3.4	2
	29	Fn.	EI	+0.008		−0.11	I	4.4	3½
Nov.	1	Fn.	EI	+0.051		+0.08	0	---	3½
	2	Wy.	EI	+0.008		+0.35	I	3.9	3½
Dec.	9	Hd.	WI	+0.041		----	I	3.4	2
Mean			1914.05	+0.025		+0.25			
			1913.91						
Corr				−0.081		−0.21			

[1] One bisection only; microscopes read first.

β Gruis

h 22 m 37 s ----- ° −47 ′ 21 ″ 20.23

1911								
Dec.	19	R.	EII	-----	−4.8	0	---	--
1912								
Aug.	10	R.	EII	-----	−5.1	0	---	--
Dec.	12	Hd.	EII	-----	−5.4	0	---	5
1913								
Dec.	9	R.	EI	-----	−2.7	0	---	--
	13	Hd.	EI	-----	−7.2	0	---	5
	15	Fn.	WI	-----	−5.8	0	---	4½
1914								
Nov.	9	Hd.	WI	-----	−1.3	0	---	5
	12	Hd.	WI	-----	−4.6	0	---	4
1915								
Nov.	10	Fn.	WI	-----	−4.4	0	---	4½
	15	Hd.	WI	-----	−6.3	0	---	5
	16	Fn.	WI	-----	−5.8	0	---	4½
	17	Wy.	WI	-----	−3.1	0	---	4½
Mean			1914.38	-----	−4.71			
Corr				-----	+1.51			

Lalande 44403

				h	m	s	°	′	″			
1912												
Aug.	1	R.	WII	22	37	18.994	+30	29	43.03	0	7.5	3½
	12	Fn.	EII			18.979			42.99	0	6.5	2
	23	Fn.	WII			19.024			43.59	0	6.2	2
Sept.	6	Hd.	EII			19.010			42.70	0	6.0	--
1914												
Aug.	7	Hd.	EI			19.002			43.22	0	6.5	2
	8	Wy.	EI			18.987			42.54	0	6.5	3
	13	Hd.	WI			18.971			44.04	0	6.0	2½
	15	Fn.	WI			19.005			43.73	0	6.5	3
Mean			1913.62	22	37	18.996	+30	29	43.23			
Corr						−0.081			−0.25			

Weisse$_1$ XXII 760

				h	m	s	°	′	″			
1911												
Aug.	15	R.	EII	22	38	19.574	+4	29	49.34	0	6.0	1½
	18	Fn.	EII			19.611			50.43	0	7.0	2½
Sept.	12	Hd.	WII			19.622			49.68	0	7.0	2
	18	Fn.	WII			19.671			49.78	0	---	1½
1915												
Aug.	14	Wy.	EI			19.631			49.79	0	7.0	2
	16	Fn.	EI			19.641			49.74	0	8.0	2½
	21	Wy.	WI			19.632			48.20	0	7.0	3
Sept.	7	Wy.	WI			19.615			49.41	0	7.0	3
Mean			1913.65	22	38	19.625	+4	29	49.55			
Corr						−0.081			−0.19			

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1911								
May	*19*	*T.*	*WII*	*−0.003*	----	----	*0*	---	--
	21	*Fn.*	*WII*	*+0.080*	*+0.79*	*+0.78*	*0*	---	--
	25	*Hd.*	*WII*	*+0.080*	*+0.53*	*+0.51*	*0*	---	--
	28	*Fn.*	*WII*	*−0.059*	*−0.32*	*−0.34*	*0*	---	--
Sept.	20	R.	WII	−0.047		+0.48	I	2.4	1
Oct.	4	Fn.	EII	−0.031		+0.74	0	---	3½
	11	Hd.	WII	+0.017		----	I	3.4	2
	12	R.	WII	−0.007		----	I	2.9	1½
	24	Fn.	WII	+0.031		+0.70	I	2.5	2
	25	R.	WII	+0.021		+1.13	I	2.9	2½
	30	Hd.	EII	+0.014		+0.89	I	2.7	2½
Nov.	2	Fn.	EII	+0.023		+1.10	I	2.5	2
	3	Hd.	EII	+0.013		+0.98	I	2.7	1
	22	R.	EII	+0.006		+0.67	I	2.4	1
Dec.	2	Hd.	WII	+0.021		----	0	---	4
	8	R.	WII	+0.015		+0.46	II	2.6	1

				s	″	″			
1912									
Apr.	*30*	*R.*	*EII*	*+0.039*	*+0.97*	*+0.95*	*0*	---	*5*
May	*2*	*Hd.*	*EII*	*+0.057*	*+0.28*	*+0.28*	*0*	---	*3*
	19	*Fn.*	*EII*	*+0.061*	----	----	*0*	---	*3*
July	26	R.	WII	+0.016		+0.01	I	2.4	2
	30	R.	WII	+0.029		+1.26	I	2.9	3
Aug.	3	R.	EII	−0.005		+0.90	I	2.9	2
	6	R.	EII	−0.019		+0.66	II	3.1	1
	24	R.	WII	+0.035		+0.93	I	3.9	1
	27	R.	WII	+0.026		+0.37	I	2.9	3
	31	R.	WII	+0.032		+0.28	I	3.4	2
Sept.	10	R.	EII	−0.010		+0.34	II	2.1	2
	14	R.	WII	+0.039		+0.59	I	---	1
	19	R.	WII	+0.048		+1.02	I	3.4	1½
	29	R.	EII	−0.023		+0.14	I	3.9	2
	30	R.	EII	+0.034		+0.97	II	2.1	2
Oct.	1	R.	EII	−0.010		+0.74	II	2.6	2
	5	Hd.	EII	−0.009		----	II	2.6	2
	8	Hd.	WII	+0.057		----	I	3.9	3
	9	Hd.	WII	+0.009		----	I	3.9	2
	11	Hd.	WII	+0.040		----	I	2.9	3
	26	Fn.	EII	+0.027		----	I	2.5	2
	27	R.	EII	+0.022		+0.59	I	2.9	2
Nov.	4	Fn.	WII	+0.018		+0.40	0	---	1½
1913									
Apr.	*6*	*Fn.*	*WII*	*+0.017*	*−0.96*	*−0.95*	*0*	---	*3½*
	7	*Hd.*	*WII*	*−0.010*	*+0.77*	*+0.79*	*0*	---	*3*
	16	*R.*	*WII*	*+0.024*	*+0.29*	*+0.30*	*0*	---	*3*
	17	*Fn.*	*WII*	*−0.029*	*−0.24*	*−0.25*	*0*	---	*3½*
	20	*Hd.*	*EII*	*+0.096*	*−0.15*	*−0.13*	*0*	---	*3*
	30	*Hd.*	*EII*	*+0.031*	*+0.20*	*+0.18*	*0*	---	*3*
May	*1*	*Fn.*	*EII*	*+0.085*	*−0.03*	*−0.05*	*0*	---	*2*
	8	*Fn.*	*EII*	-----	*+0.26*	*+0.23*	*0*	---	*3*
Nov.	3	Fn.	EI	+0.024		+0.47	I	3.4	2½
	5	Hd.	EI	+0.022		+0.70	I	2.4	2½
	10	Fn.	WI	+0.003		+0.80	0	---	3½
	19	Hd.	WI	+0.056		+0.37	I	---	2
	21	R.	WI	+0.033		+1.29	II	2.6	2
	22	Hd.	WI	+0.031		+0.91	I	2.9	2
	24	Fn.	WI	+0.024		+1.15	I	2.9	3½
	25	R.	EI	−0.038		−0.14	II	2.6	2
Dec.	3	Hd.	EI	−0.024		+0.24	I	---	2
	4	Fn.	EI	−0.038		−0.31	I	---	2
	5	Fn.	EI	+0.011		+0.11	I	2.9	3
1914									
Apr.	*17*	*Hd.*	*EI*	*+0.077*	*−0.15*	*−0.17*	*0*	---	*2½*
	27	*Hd.*	*EI*	*+0.066*	*+0.33*	*+0.34*	*0*	---	*3*
Aug.	18	Wy.	WI	+0.018		----	I	2.9	2½
Sept.	1	An.	WI	−0.003		----	II	2.1	1½
	2	Wy.	WI	+0.053		----	II	3.1	2½
	4	Fn.	WI	+0.024		+1.25	I	2.4	2
	5	Wy.	WI	+0.055		----	II	3.1	2
	8	Wy.	EI	+0.022		+0.87	0	---	2½
	9	Fn.	EI	+0.036		----	I	2.9	2
	13	Wy.	EI	+0.054		----	I	2.9	2
	14	Fn.	EI	0.000		----	I	2.9	2
	16	Wy.	EI	+0.033		+0.15	I	---	2½
	17	Fn.	EI	−0.039		----	I	2.9	2
	19	Wy.	EI	+0.021		----	I	3.4	2½
	20	An.	EI	−0.008		----	I	2.4	2
	25	Wy.	EI	+0.027		----	I	3.4	2½
	29	Wy.	WI	+0.001		+0.96	I	2.9	2
	30	An.	WI	+0.016		+1.06	II	3.6	2
Oct.	6	Hd.	WI	+0.011		----	I	---	2
	19	Hd.	EI	−0.004		+0.74	I	2.9	2
	20	Hd.	EI	+0.027		+0.89	I	3.4	2
	22	Hd.	EI	−0.011		+0.45	I	2.9	3
	28	An.	EI	+0.033		+0.91	II	3.1	2½
	31	An.	EI	+0.022		−0.05	II	3.6	2½
Nov.	4	Hd.	WI	+0.017		+0.84	I	3.4	3
	5	Fn.	WI	−0.035		+0.71	I	2.9	2
	7	Hd.	WI	+0.002		+0.58	I	3.4	3
	13	Fn.	WI	+0.005		----	I	3.9	3½
	18	Hd.	EI	+0.024		----	I	---	2
	23	Hd.	EI	+0.029		----	I	2.9	2
	24	Wy.	EI	+0.008		----	II	2.6	2½
	25	Fn.	EI	−0.022		----	I	3.4	3½
Dec.	2	Fn.	WI	−0.014		----	I	---	2½
	12	An.	WI	−0.003		----	I	---	3½

				s	″	″			
1915									
Mar.	*31*	*Fn.*	*EI*	-----	*+0.04*	*+0.05*	*0*	---	*3½*
Apr.	*7*	*Hd.*	*EI*	*+0.038*	*−0.34*	*−0.32*	*0*	---	*3*
	13	*An.*	*WI*	*+0.012*	*+0.14*	*+0.16*	*0*	---	*3½*
	14	*Hd.*	*WI*	*+0.010*	*+0.40*	*+0.40*	*0*	---	*3½*
	15	*Fn.*	*WI*	-----	*+1.82*	*+1.80*	*0*	---	*3½*
	20	*An.*	*WI*	*+0.001*	*+0.20*	*+0.22*	*0*	---	*3½*
	23	*An.*	*WI*	*+0.123*	----	----	*0*	---	*3*
	29	*Wy.*	*EI*	*+0.011*	*+0.55*	*+0.55*	*0*	---	*3*
	30	*Hd.*	*EI*	-----	*+0.74*	*+0.71*	*0*	---	*3*
May	*5*	*Fn.*	*EI*	*+0.078*	*−0.08*	*−0.14*	*0*	---	*3½*
	9	*Hd.*	*EI*	*+0.008*	*+0.51*	*+0.51*	*0*	---	*3*
Sept.	8	Hd.	WI	+0.011		+0.61	II	3.1	2
	20	Hd.	EI	+0.024		+0.63	0	---	3½
Oct.	12	Wy.	WI	+0.016		+0.98	I	3.4	3
	13	Hd.	WI	+0.018		+1.19	I	3.4	2
	23	Fn.	WI	+0.032		+1.91	I	2.9	2½
	25	Hd.	WI	0.000		+0.95	I	2.9	2
	27	Wy.	WI	+0.008		+1.05	I	2.9	3
	30	Wy.	EI	+0.015		+0.80	I	3.4	3
Nov.	9	Hd.	WI	−0.024		+0.54	I	2.9	2½
	13	Fn.	WI	+0.014		----	0	---	2½
	22	Fn.	EI	+0.055		----	I	3.4	2½
	29	Hd.	EI	0.000		−0.01	I	2.9	2
Dec.	1	Wy.	EI	-----		+0.84	II	2.6	2
	9	Hd.	WI	+0.005		----	I	2.9	2
1916									
Mar.	*10*	*Wy.*	*WI*	*+0.022*	*+0.39*	*+0.48*	*0*	---	*3½*
Oct.	6	Wy.	WI	+0.042		+0.82	I	3.4	3
	10	Fn.	WI	+0.028		----	I	2.9	2
	17	Fn.	WI	+0.021		----	I	2.9	3
	20	Fn.	WI	−0.020		----	I	3.4	3
	21	Hd.	WI	−0.057		----	I	2.9	3
	23	Wy.	WI	−0.008		+0.45	I	3.4	2½
	24	Hd.	WI	−0.012		+0.88	II	3.1	2
Nov.	2	Hd.	EI	+0.001		----	I	2.9	3
	3	Fn.	EI	−0.004		----	1	---	2½
	10	Fn.	EI	−0.003		+1.01	I	2.9	2½
	15	Hd.	WI	+0.008		----	I	3.4	3
	21	Hd.	WI	+0.018		----	I	2.9	2
	24	Fn.	WI	−0.034		+1.09	I	3.4	2½
Dec.	1	Fn.	EI	+0.004		----	I	3.9	3
	22	*Hd.*	*WI*	*−0.028*	----	----	*I*	---	*3*
	29	*Hd.*	*WI*	*+0.014*	*+0.38*	*+0.39*	*I*	---	*2½*
1917									
Jan.	*2*	*Wy.*	*WI*	*+0.019*	*−0.07*	*−0.06*	*0*	---	*3*
	12	*Fn.*	*EI*	*+0.050*	*−0.21*	*−0.18*	*0*	---	*3½*
	19	*Hd.*	*EI*	*+0.053*	*−0.31*	*−0.29*	*0*	---	*2½*
Apr.	*8*	*Hd.*	*WI*	*−0.026*	*+0.67*	*+0.70*	*0*	---	*3*
	9	*Fn.*	*WI*	*+0.061*	*−0.57*	*−0.56*	*0*	---	*3½*
	22	*Wy.*	*EI*	*−0.012*	*+0.60*	*+0.61*	*0*	---	*3½*
	26	*Hd.*	*EI*	*−0.012*	*+0.02*	*+0.03*	*0*	---	*3*
	29	*Hd.*	*EI*	*+0.030*	*+0.73*	*+0.70*	*0*	---	*3*
May	*9*	*Fn.*	*WI*	*+0.067*	*+0.26*	*+0.25*	*0*	---	*3½*
Sept.	18	Wy.	EII	+0.013		−0.21	I	2.9	2
Oct.	2	Fn.	WII	−0.010		+0.49	I	2.9	2½
	4	Hd.	WII	−0.006		+0.68	I	---	2
	15	Fn.	EII	+0.022		+0.94	I	3.4	3
	16	Wy.	EII	+0.002		+0.97	I	3.4	2½
	22	Hd.	EII	+0.014		+0.74	I	2.9	2
	25	Hd.	EII	+0.064		+0.89	I	2.9	2½
Nov.	2	Fn.	EII	+0.042		+0.75	I	2.9	2½
	16	Fn.	WII	+0.004		----	I	3.4	2
	19	Hd.	WII	+0.009		----	I	2.9	2
	20	Fn.	WII	+0.016		+0.67	I	3.4	2½
1918									
Jan.	*8*	*Hd.*	*EII*	*+0.031*	*0.00*	*+0.04*	*0*	---	*3*
	10	*Fn.*	*EII*	*+0.086*	*−0.05*	*−0.02*	*0*	---	*3½*
	19	*Wy.*	*WII*	*+0.056*	*+0.83*	*+0.87*	*0*	---	*3½*
Apr.	*4*	*Fn.*	*EII*	*+0.082*	*+1.09*	*+1.10*	*0*	---	*3½*
	15	*Wy.*	*EII*	*+0.070*	*−0.33*	*−0.32*	*0*	---	*3½*
May	*1*	*Fn.*	*EII*	*+0.012*	*+0.17*	*+0.17*	*0*	---	*3*
	7	*Fn.*	*EII*	*+0.053*	*+0.55*	*+0.51*	*0*	---	*3*
	8	*Fn.*	*EII*	*+0.013*	*+0.95*	*+0.95*	*0*	---	*3*
Mean			1914.68	+0.011		+0.70			
			1914.52						
Corr				−0.081		−0.25			

13 Lacertæ

			h	m	s	°	′	″			
1912											
Aug. 29	R.	WII	22	40	4.537	+41	20	47.68	I	---	2
Sept. 9	Hd.	EII			4.527			48.44	I	4.4	2
20	Hd.	WII			4.529			48.15	I	4.6	2
27	Hd.	EII			4.511			48.58	0	5.5	3
1914											
Aug. 20	Fn.	WI			4.551			47.81	0	5.5	2
30	Wy.	WI			4.540			48.14	I	4.4	2
31	Fn.	WI			4.514			47.80	0	5.5	2
Sept. 14	Fn.	EI			4.579			48.50	0	5.0	2
19	Wy.	EI			4.504			48.53	0	5.5	3
Mean	1913.80		22	40	4.532	+41	20	48.18			
Corr					−0.081			−0.27			

B. D.+38° 4858

			h	m	s	°	′	″			
1916											
Sept. 25	Wy.	EI	22	40	-----	+38	43	43.17	0	7.0	3
Oct. 10	Fn.	WI			-----			42.92	0	6.0	2
17	Fn.	WI			-----			42.88	0	6.5	3
Nov. 2	Hd.	EI			-----			42.86	0	6.5	3
3	Fn.	EI			-----			43.25	0	6.5	2½
Mean	1916.80		22	40	-----	+38	43	43.02			
Corr					-----			−0.27			

Bradley 3006

			h	m	s	°	′	″			
1912											
Oct. 5	Hd.	EII	22	41	5.432	+18	53	31.00	0	6.0	2
7	R.	WII			5.462			31.06	0	6.0	3
8	Hd.	WII			5.472			30.73	0	7.0	3
26	Fn.	EII			5.450			30.70	0	6.4	2
1914											
Aug. 17	Fn.	WI			5.435			30.95	0	6.5	2
18	Wy.	WI			5.443			31.15	0	6.5	2½
Sept. 17	Fn.	EI			5.439			30.30	0	6.5	2
20	An.	EI			5.389			30.98	0	6.0	2
Mean	1913.73		22	41	5.440	+18	53	30.86			
Corr					−0.081			−0.23			

Weisse$_1$ XXII 821

			h	m	s	°	′	″			
1911											
Aug. 22	R.	EII	22	41	56.732	+ 7	6	32.35	0	7.0	1
Sept. 25	Fn.	EII			56.715			32.25	0	7.3	2
Oct. 11	Hd.	WII			56.722			32.12	0	7.5	2
12	R.	WII			56.698			32.46	0	7.0	1½
1915											
July 24	An.	EI			56.689			33.22	0	7.0	2½
Aug. 9	Fn.	EI			56.687			32.70	0	7.0	2½
17	An.	WI			56.689			32.60	0	7.0	3
19	Fn.	WI			56.706			31.27	0	7.5	2
Mean	1913.67		22	41	56.705	+ 7	6	32.37			
Corr					−0.081			−0.20			

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			h	m	s	°	′	″				
			22	42	11.687	+23	5	30.46				
1912												
Aug. 12	Fn.	EII			+0.023			−0.38	I	3.6	2	
20	R.	WII			+0.045			−0.13	0	---	2	
23	Fn.	WII			−0.009			+0.62	0	---	2½	
Sept. 6	Hd.	EII			+0.070			−0.55	I	4.4	--	
1913												
Aug. 15	Fn.–R.	WII			-----			−0.84	I	---	1½	R.
15	Fn.–R.	WII			-----			−0.24	I	3.9	1½	
16	Fn.–R.	WII			-----			−0.72	0	---	1½	R.
16	Fn.–R.	WII			-----			−0.20	0	---	1½	
17	R.–Fn.	WII			-----			−1.31	I	---	2	R.
17	R.–Fn.	WII			-----			+0.52	I	3.4	2	
20	R.–Fn.	EII			-----			−0.61	I	---	1½	R.
20	R.–Fn.	EII			-----			+0.04	II	3.1	1½	
1913					s			″				
Aug. 25	R.–Fn.	EII			-----			−0.37	I	---	2	R.
25	R.–Fn.	EII			-----			−0.97	I	3.4	2	
31	Fn.–R.	EII			-----			−0.76	0	---	2	R.
31	Fn.–R.	EII			-----			−0.34	I	3.4	2	
Sept. 4	Fn.–R.	EII			-----			−2.26	I	---	2	R.
4	Fn.–R.	EII			-----			+0.04	I	3.9	2	
Nov. 6	Fn.	EI			+0.014			+0.10	I	3.9	2½	
7	R.	EI			+0.008			−0.51	II	3.1	2	
12	Hd.	WI			+0.026			−0.03	I	3.4	2	
17	Fn.	WI			+0.061			+0.51	I	3.9	1½	
Mean	1913.25				+0.030			−0.10				
	1913.44											
Corr					−0.081			−0.24				

Bradley 3007

			h	m	s	°	′	″			
1911											
Aug. 9	Fn.	EII	22	42	43.217	−20	4	59.10	0	5.5	3½
10	R.	EII			43.339			59.02	0	5.5	2½
Sept. 1	Fn.	WII			43.215			59.66	0	---	2½
2	R.	WII			43.227			58.33	0	---	3
1915											
Aug. 12	Fn.	EI			43.208			60.44	0	6.0	3
21	Wy.	WI			43.203			60.57	0	---	3½
23	Wy.	WI			43.219			60.16	0	6.0	2½
Sept. 13	Hd.	EI			43.184			60.39	0	6.0	3
Mean	1913.64		22	42	43.226	−20	4	59.71			
Corr					−0.081			−0.08			

Weisse$_1$ XXII 839

			h	m	s	°	′	″			
1912											
Oct. 9	Hd.	WII	22	42	51.770	− 2	15	47.36	0	---	2
16	Fn.	WII			51.784			47.55	0	6.9	1½
28	Fn.	EII			51.810			47.60	0	7.4	3
29	R.	EII			51.786			47.84	0	7.5	3
1914											
Aug. 7	Hd.	EI			51.805			47.77	0	7.5	2
8	Wy.	EI			51.800			47.15	0	7.0	3
13	Hd.	WI			51.759			47.40	0	7.5	2
15	Fn.	WI			51.796			47.72	0	7.5	3
Mean	1913.71		22	42	51.789	−2	15	47.55			
Corr					−0.081			−0.17			

Bradley 3009

			h	m	s	°	′	″			
1911											
Aug. 15	R.	EII	22	42	56.172	−14	31	51.13	0	6.5	3
16	Fn.	EII			56.156			52.25	0	6.1	3½
Oct. 16	Fn.	WII			56.206			51.48	0	5.8	3
18	Fn.	WII			56.191			51.95	0	6.0	3
1914											
Oct. 19	Hd.	EI			56.200			52.15	0	6.5	2½
21	An.	EI			56.184			52.35	0	6.5	3½
Nov. 2	Fn.	WI			56.228			51.70	0	6.5	3
3	An.	WI			56.234			51.54	0	7.0	3½
Mean	1913.26		22	42	56.196	−14	31	51.82			
Corr					−0.081			−0.12			

Lacaille 9256

			h	m	s	°	′	″			
1912											
Oct. 30	Fn.	EII	22	42	59.945	−26	23	3.35	0	6.6	3½
Nov. 2	R.	WII			60.050			3.05	0	7.0	2
5	Fn.	WII			60.068			3.85	0	6.8	4
10	R.	EII			60.015			3.27	0	7.0	4
1914											
Sept. 1	An.	WI			60.016			3.74	0	7.0	3½
4	Fn.	WI			60.037			2.93	0	6.5	3
5	Wy.	WI			60.039			4.54	0	6.5	2½
9	Fn.	EI			60.060			4.30	0	6.5	3½
10	An.	EI			60.080			4.25	0	7.0	3
13	Wy.	EI			60.076			3.71	0	7.0	3½
28	Hd.	WI			60.080			3.60	0	6.5	3
Mean	1914.02		22	43	0.042	−26	23	3.69			
Corr					−0.081			−0.02			

τ Aquarii

			h m s	° ′ ″			
			22 44 49.699	−14 4 4.21			
1911							
Aug. 18	Fn.	EII	−0.067	[+5.63][1]	I	3.9	3
21	Fn.	EII	−0.017	+0.06	I	3.9	3
Sept. 12	Hd.	WII	+0.001	−0.30	I	3.9	3
18	Fn.	WII	+0.052	−0.18	0	4.2	1½
1915							
Aug. 25	Wy.	WI	+0.040	+0.33	0	---	4½
31	Wy.	WI	+0.050	−0.26	0	---	3
Sept. 3	Hd.	WI	+0.054	−1.18	I	4.4	3
14	Wy.	EI	+0.033	−0.95	I	3.9	2½
15	Hd.	EI	+0.057	−0.14	I	3.9	2½
Mean	1913.90		+0.023	−0.33			
	1914.18						
Corr			−0.081	−0.12			

μ Pegasi

			h m s	° ′ ″			
			22 45 39.563	+24 7 33.83			
1912			s	″			
Aug. 29	R.	WII	−0.017	+0.47	0	---	1
31	R.	WII	+0.020	−0.14	I	---	3
Sept. 27	Hd.	EII	−0.004	−0.14	I	3.4	2
29	R.	EII	−0.005	----	I	3.9	2
30	R.	EII	−0.003	+0.53	II	2.6	2
1913							
Nov. 3	Fn.	EI	+0.025	−0.25	I	3.7	2
4	R.	EI	−0.003	+0.13	I	2.4	3½
10	Fn.	WI	−0.023	+1.25	0	---	3½
19	Hd.	WI	−0.003	+0.35	I	---	2
1916							
Oct. 10	Fn.	WI	−0.005	+0.47	I	3.4	2
17	Fn.	WI	−0.018	−0.55	I	3.9	3
23	Wy.	WI	−0.003	+0.20	I	3.4	2½
24	Hd.	WI	+0.013	+0.22	I	2.9	2
Nov. 2	Hd.	EI	−0.035	−0.70	I	3.4	3
3	Fn.	EI	−0.003	−0.45	I	3.4	2½
10	Fn.	EI	−0.067	+0.50	I	3.9	2½
24	Fn.	WI	−0.003	+0.71	I	3.9	2½
27	Wy.	WI	+0.008	−0.03	I	3.4	2
Dec. 22	*Hd.*	*WI*	*−0.066*	----	----	*I*	---	*3*
29	*Hd.*	*WI*	*−0.008*	*+0.08*	*+0.09*	*0*	---	*2½*
1917							
Jan. 2	*Wy.*	*WI*	*+0.017*	*−0.08*	*−0.06*	*0*	---	*3*
12	*Fn.*	*EI*	*−0.006*	*−0.31*	*−0.26*	*0*	---	*3*
19	*Hd.*	*EI*	*+0.028*	*−1.13*	*−1.10*	*0*	---	*2½*
Apr. 8	*Hd.*	*WI*	*−0.041*	*+0.21*	*+0.25*	*0*	---	*3*
22	*Wy.*	*EI*	*−0.007*	*+0.04*	*+0.05*	*0*	---	*3½*
29	*Hd.*	*EI*	*−0.008*	*−0.12*	*−0.16*	*0*	---	*3½*
Sept. 18	Wy.	EII	+0.021	−0.02	I	3.4	3
Oct. 4	Hd.	WII	−0.022	+0.12	I	2.9	3
15	Fn.	EII	−0.019	+0.32	I	3.9	3
16	Wy.	EII	0.000	+0.20	I	3.4	2½
22	Hd.	EII	−0.015	+0.33	I	2.9	2
25	Hd.	EII	+0.005	+0.24	I	2.9	3
Nov. 2	Fn.	EII	−0.035	−0.19	I	3.9	2½
12	Wy.	WII	−0.005	−0.46	I	3.9	3
20	Fn.	WII	−0.026	−0.67	I	3.9	2½
1918							
Jan. 8	*Hd.*	*EII*	*+0.009*	*−0.91*	*−0.85*	*0*	---	*3*
10	*Fn.*	*EII*	*+0.050*	*−0.91*	*−0.87*	*0*	---	*3*
19	*Wy.*	*WII*	*−0.003*	*+0.27*	*+0.34*	*0*	---	*3*
May 7	*Fn.*	*EII*	*−0.011*	*+0.10*	*+0.04*	*0*	---	*3*
Mean	1915.96		−0.008	+0.09			
	1916.08						
Corr			−0.081	−0.24			

ι Cephei

			h m s	° ′ ″			
			22 46 28.375	+65 43 36.23			
1911							
Sept. 26	Hd.	EII	−0.01	−0.22	I	2.7	2½
29	Hd.	EII	0.00	−0.07	0	---	---
Oct. 13	Hd.	WII	−0.02	+0.49	I	3.4	---
23	R.	WII	−0.02	+1.03	I	3.9	1½
1914							
Oct. 9	Hd.	WI	+0.04	+0.50	I	3.9	2
10	An.	WI	+0.14	+0.87	I	3.9	2
12	Hd.	WI	+0.09	+0.53	I	3.4	2
17	An.	EI	+0.05	+0.77	0	---	3
19	Hd.	EI	+0.08	+0.69	I	3.4	2
20	Hd.	EI	+0.06	+1.06	I	3.4	2½
Mean	1913.58		+0.041	+0.56			
Corr			−0.081	−0.33			

Weisse$_2$ XXII 1040

			h m s	° ′ ″			
1911							
Sept. 30	R.	EII	22 47 8.023	+25 54 48.77	0	7.0	2
Oct. 24	Fn.	WII	8.012	48.64	0	6.5	2
25	Hd.	WII	8.046	48.40	0	6.2	2½
30	Hd.	EII	7.990	48.77	0	6.0	2½
Nov. 2	Fn.	EII	7.958	48.55	0	6.5	2
1915							
Sept. 7	Wy.	WI	8.006	48.77	0	7.5	2½
8	Hd.	WI	7.978	48.67	0	6.5	2
13	Hd.	EI	7.994	48.53	0	6.5	2
16	Wy.	EI	8.021	48.69	0	7.0	2
Mean	1913.54		22 47 8.003	+25 54 48.64			
Corr			−0.081	−0.24			

γ Piscis Australis

			h m s	° ′ ″			
1912							
Aug. 10	R.	EII	22 47 31.565	−33 21 10.52	0	---	---
20	R.	WII	31.560	10.59	0	---	2½
23	Fn.	WII	31.549	11.40	0	---	4
Sept. 9	Hd.	EII	31.666	10.16	0	5.5	3
1913							
Nov. 5	Hd.	EI	31.581	10.89	0	5.5	3½
6	Fn.	EI	31.540	11.54	0	5.5	3½
12	Hd.	WI	31.544	10.24	0	---	3½
17	Fn.	WI	31.545	12.47	0	5.5	3
Mean	1913.25		22 47 31.569	−33 21 10.98			
Corr			−0.081	+0.10			

σ Pegasi

			h m s	° ′ ″			
1911							
Aug. 8	R.	EII	22 47 50.486	+9 21 23.19	0	---	2
9	Fn.	EII	50.451	23.71	0	5.5	2½
Oct. 11	Hd.	WII	50.505	23.89	0	5.8	2
12	R.	WII	50.454	24.27	0	6.5	1½
1915							
July 24	An.	EI	50.578	24.17	I	5.4	2½
Aug. 9	Fn.	EI	50.575	23.44	0	5.5	2
17	An.	WI	50.572	24.11	0	6.0	3
18	Wy.	WI	50.616	24.09	I	4.9	2½
Mean	1913.65		22 47 50.530	+9 21 23.86			
Corr			−0.081	−0.21			

Bradley 3038

			h m s	° ′ ″			
1912							
Sept. 20	Hd.	WII	22 47 51.78	+82 40 35.27	I	4.4	2
Oct. 1	R.	EII	51.48	36.38	I	---	---
5	Hd.	EII	51.32	35.93	I	4.4	2
8	Hd.	WII	51.59	35.06	0	6.0	3

[1] Micrometer readings doubtful.

1913			h m s	° ′ ″			
Nov. 7	R.	EI	51.62	35.12	I	3.9	2½
20	Fn.	WI	51.58	35.36	0	5.0	2½
21	R.	WI	51.46	35.26	I	3.9	1½
25	R.	EI	51.35	35.63	I	4.9	2
Mean	1913.32		22 47 51.522	+82 40 35.50			
Corr			−0.081	−0.38			

Bradley 3038 s. p.

1912			h m s	° ′ ″			
Dec. 19	R.	EII	22 47 51.77	+82 40 34.73	0	5.5	2½
22	R.	WII	51.80	34.44	0	---	2½
28	R.	WII	52.07	34.87	0	5.5	2
1913							
Jan. 18	R.	EII	51.40	34.31	I	4.4	2½
Dec. 26	Fn.	WI	51.05	34.29	0	5.0	3½
29	Hd.	WI	51.45	33.56	0	---	5
1914							
Jan. 5	Hd.	EI	51.50	33.03	0	6.0	3
8	Hd.	EI	51.68	34.33	0	6.0	3½
Mean	1913.50		22 47 51.590	+82 40 34.20			
Corr			−0.081	+0.46			

λ Aquarii

			h m s	° ′ ″			
			22 47 55.196	−8 3 31.29			
1912							
July 30	R.	WII	+0.079	−0.16	I	4.4	2½
Aug. 1	R.	WII	+0.017	−0.16	0	---	5
3	R.	EII	+0.096	+0.41	I	4.4	2½
6	R.	EII	+0.069	+0.74	I	4.4	2¼
1914							
Aug. 6	Fn.	EI	+0.057	−0.10	0	5.0	2½
7	Hd.	EI	+0.067	+0.19	I	4.4	2
13	Hd.	WI	+0.088	+0.32	I	3.4	2½
17	Fn.	WI	+0.045	−0.21	0	---	3
Mean	1913.60		+0.065	+0.13			
Corr			−0.081	−0.15			

Radcliffe 1845, 5878

1911			h m s	° ′ ″			
Aug. 15	R.	EII	22 49 31.48	+67 30 36.73	0	6.5	1
16	Fn.	EII	31.58	36.75	0	7.4	3½
Sept. 1	Fn.	WII	31.45	37.04	0	6.6	2
2	R.	WII	31.64	38.33	0	---	2½
1914							
Oct. 19	Hd.	EI	31.57	36.94	0	7.0	2
21	An.	EI	31.50	36.70	0	7.0	3
Nov. 2	Fn.	WI	31.43	37.85	0	7.0	2½
4	Hd.	WI	31.50	37.17	0	7.5	3
Mean	1913.23		22 49 31.519	+67 30 37.19			
Corr			−0.081	−0.34			

δ Aquarii

			h m s	° ′ ″				
			22 49 52.489	−16 17 58.85				
1911								
Aug. 22	R.	EII	+0.074	−0.04	I	3.9	1½	
Sept. 18	Fn.	WII	+0.089	+0.56	0	---	1½	
25	Fn.	EII	+0.052	−0.33	I	3.2	2½	
Oct. 16	Fn.	WII	+0.099	+0.08	I	---	2	
1913								
Aug. 14	R.–Fn.	WII	-----	−0.87	0	---	2	R.
14	R.–Fn.	WII	-----	+0.52	I	3.9	2	
15	Fn.–R.	WII	-----	−0.66	I	---	2½	R.
15	Fn.–R.	WII	-----	+0.21	I	3.9	2½	
16	Fn.–R.	WII	-----	−0.58	I	---	3	R.
16	Fn.–R.	WII	-----	−0.10	I	3.9	3	
17	R.–Fn.	WII	-----	−1.44	0	---	2½	R.
1913			s	″				
Aug. 17	R.–Fn.	WII	-----	−0.11	I	---	3	
20	R.–Fn.	EII	-----	−1.78	I	---	2½	R.
20	R.–Fn.	EII	-----	−0.25	II	2.6	2	
25	R.–Fn.	EII	-----	−1.05	I	---	1½	R.
25	R.–Fn.	EII	-----	+0.36	I	3.4	1½	
31	Fn.–R.	EII	-----	−1.41	0	---	2½	R.
31	Fn.–R.	EII	-----	+0.28	I	3.4	2½	
Sept. 4	Fn.–R.	EII	-----	−1.37	I	---	2	R.
4	Fn.–R.	EII	-----	+0.09	I	3.9	2	
1915								
Aug. 12	Fn.	EI	+0.119	−0.38	I	3.9	3	
16	Fn.	EI	+0.108	−0.36	0	4.5	3	
19	Fn.	WI	+0.096	−0.62	0	---	2	
23	Wy.	WI	+0.087	−0.10	I	3.9	2½	
Mean	1913.67		+0.090	−0.01				
	1913.66							
Corr			−0.081	−0.11				

Bradley 3026

1912			h m s	° ′ ″			
Oct. 15	R.	WII	22 49 59.864	−16 44 57.99	0	5.5	3
16	Fn.	WII	59.834	58.04	0	5.7	2
26	Fn.	EII	59.860	57.84	0	5.8	3
27	R.	EII	59.875	57.43	0	6.0	3
1914							
Aug. 20	Fn.	WI	59.804	58.07	0	6.0	3
22	An.	WI	-----	58.33	0	5.0	2½
31	Fn.	WI	59.793	58.07	0	6.0	2½
Sept. 9	Fn.	EI	59.785	58.54	0	6.0	3
10	An.	EI	59.770	58.82	0	6.0	3
13	Wy.	EI	59.831	58.14	0	6.0	3
Mean	1913.84		22 49 59.824	−16 44 58.13			
	1913.92						
Corr			−0.081	−0.10			

Weisse$_2$ XXII 1121

1911			h m s	° ′ ″			
Aug. 18	Fn.	EII	22 50 51.411	+36 35 49.05	0	5.8	2
21	Fn.	EII	51.375	48.02	0	6.0	1½
Oct. 18	Fn.	WII	51.392	48.61	0	6.0	2
23	R.	WII	51.433	48.42	0	5.5	1
1915							
Aug. 25	Wy.	WI	51.456	49.45	0	6.5	3
31	Wy.	WI	51.454	48.37	0	---	3
Sept. 1	Hd.	WI	51.412	48.62	0	---	2½
15	Hd.	EI	51.419	48.92	0	6.0	2
20	Hd.	EI	51.420	49.17	0	6.5	3
Mean	1913.92		22 50 51.419	+36 35 48.74			
Corr			−0.081	−0.26			

B. D.+11° 4904 [1]

1912			h m s	° ′ ″			
Oct. 1	R.	EII	22 52 21.513	+11 22 3.23	0	7.0	2½
5	Hd.	EII	21.507	3.11	0	6.0	2
7	R.	WII	21.489	4.11	0	6.0	2
9	Hd.	WII	21.506	3.75	0	7.5	2
1914							
Sept. 1	An.	WI	21.478	3.14	0	7.0	3
2	Wy.	WI	21.501	3.06	0	6.0	2½
4	Fn.	WI	21.552	3.80	0	6.5	2
14	Fn.	EI	21.510	3.91	0	6.5	2½
17	Fn.	EI	21.510	3.36	0	7.0	2
Mean	1913.83		22 52 21.507	+11 22 3.50			
Corr			−0.081	−0.21			

[1] Double; s, pr. component observed.

Oeltzen 24899

			h m s	° ′ ″			
1912							
Aug. 29	R.	WII	22 52 24.837	+55 58 11.02	0	---	1
31	R.	WII	24.852	-----	0	---	3
Sept. 6	Hd.	EII	24.864	10.89	0	---	2
9	Hd.	EII	24.788	11.63	0	7.0	2
17	R.	WII	24.873	10.94	0	7.5	1½
1913							
Nov. 3	Fn.	EI	24.811	11.30	0	---	2½
4	R.	EI	24.755	11.31	0	6.0	3
12	Hd.	WI	24.926	11.90	0	7.0	2
21	R.	WI	24.884	12.13	0	6.5	2
Mean	1913.21		22 52 24.843	+55 58 11.39			
	1913.27						
Corr			−0.081	−0.30			

α Piscis Australis

			h m s	° ′ ″			
			22 52 40.955	−30 5 59.19			
1911			s	″			
Sept. 26	Hd.	EII	+0.111	+0.54	II	1.9	4½
30	R.	EII	+0.095	+0.23	II	0.6	3
Oct. 13	Hd.	WII	+0.083	−0.58	I	2.4	3½
24	Fn.	WII	+0.131	+0.34	II	1.1	3
1915							
Sept. 3	Hd.	WI	+0.073	−0.70	I	3.9	3
7	Wy.	WI	+0.117	+0.03	I	3.4	3
13	Hd.	EI	+0.062	−0.58	II	1.6	3
14	Wy.	EI	+0.117	+0.07	II	2.6	3
1916							
Oct. 23	Wy.	WI	+0.102	+0.57	II	0.6	4
24	Hd.	WI	+0.139	+0.10	II	2.6	3
Nov. 3	Fn.	EI	+0.111	−0.22	I	3.4	3
10	Fn.	EI	+0.127	+1.05	I	2.4	3
20	Fn.	WI	+0.098	+0.39	I	3.4	3
24	Fn.	WI	+0.100	+0.24	I	1.9	3½
27	Wy.	WI	+0.106	−0.14	II	2.6	3½
1917							
Jan. 2	*Wy.*	*WI*	*+0.078*	*−0.42* *−0.23*	*0*	---	*4*
Sept. 18	Wy.	EII	+0.072	+1.55	0	---	--
Oct. 4	Hd.	WII	+0.095	−0.56	II	2.6	3
15	Fn.	EII	+0.089	+1.12	I	2.9	4
16	Wy.	EII	+0.095	−0.43	II	2.6	3½
22	Hd.	EII	+0.091	−0.92	II	2.6	3½
25	Hd.	EII	+0.103	−0.08	II	2.6	3½
Nov. 2	Fn.	EII	+0.028	−0.14	I	3.4	3½
12	Wy.	WII	+0.147	−0.85	I	3.9	4
20	Fn.	WII	+0.099	−0.17	I	1.9	3
1918							
Jan. 8	*Hd.*	*EII*	*+0.120*	*+0.32* *+0.81*	*0*	---	*4*
10	*Fn.*	*EII*	*+0.028*	*+0.23* *+0.58*	*0*	---	*3½*
Apr. 15	*Wy.*	*EII*	*+0.193*	*+0.61* *+0.97*	*0*	---	*4½*
Mean	1916.17		+0.100	+0.04			
Corr			−0.081	+0.03			

B. D.+3° 4799

			h m s	° ′ ″			
1912							
July 30	R.	WII	22 52 57.881	+ 3 19 41.17	0	7.0	2½
Aug. 1	R.	WII	57.886	41.81	0	---	3
6	R.	EII	57.881	41.55	0	7.5	2
12	Fn.	EII	57.897	41.51	0	6.6	2
1913							
Nov. 5	Hd.	EI	57.908	41.79	0	6.5	3
6	Fn.	EI	------	41.60	0	6.7	2½
17	Fn.	WI	57.883	41.72	0	6.5	1½
20	Fn.	WI	57.925	41.67	0	6.5	3
25	R.	EI	57.885	41.12	0	---	2
Mean	1913.24		22 52 57.893	+ 3 19 41.55			
	1913.31						
Corr			−0.081	−0.19			

Bradley 3035

			h m s	° ′ ″			
1911							
Oct. 4	Fn.	EII	22 53 2.631	+20 17 9.49	0	6.2	3½
6	Fn.	EII	2.587	10.44	0	---	4
11	Hd.	WII	2.640	9.55	0	5.8	2
12	R.	WII	2.637	10.13	0	6.0	1½
1914							
Oct. 9	Hd.	WI	2.670	10.51	0	6.0	2
12	Hd.	WI	2.661	10.58	0	6.0	3
20	Hd.	EI	2.697	9.87	0	6.0	3
22	Hd.	EI	2.667	9.59	0	6.0	3
Mean	1913.28		22 53 2.649	+20 17 10.02			
Corr			−0.081	−0.23			

B. D.+38° 4904

			h m s	° ′ ″			
1916							
Oct. 10	Fn.	WI	22 53 -----	+38 49 38.11	0	6.0	2
17	Fn.	WI	-----	37.85	0	6.5	3
27	Hd.	EI	-----	39.49	0	6.0	3
Nov. 2	Hd.	EI	-----	38.90	0	6.5	3
Mean	1916.81		22 53 -----	+38 49 38.59			
Corr			-----	−0.27			

36 H. Cephei

			h m s	° ′ ″			
1912							
Sept. 20	Hd.	WII	22 55 9.82	+83 51 53.24	I	4.4	3
27	Hd.	EII	9.51	53.39	0	5.5	3
30	R.	EII	9.88	54.31	I	4.4	2½
Oct. 8	Hd.	WII	9.69	52.72	0	6.0	3
1913							
Nov. 7	R.	EI	9.80	53.19	I	3.9	2½
10	Fn.	WI	9.58	53.04	0	---	3½
22	Hd.	WI	9.86	52.82	I	4.4	2
Dec. 3	Hd.	EI	9.37	53.35	0	---	3
Mean	1913.31		22 55 9.689	+83 51 53.26			
Corr			−0.081	−0.39			

36 H. Cephei s. p.

			h m s	° ′ ″			
1913							
Mar. 20	R.	WII	22 55 9.84	+83 51 52.43	0	5.0	3½
21	Fn.	WII	9.31	52.31	0	---	4½
22	Hd.	WII	9.69	52.22	I	4.4	3
29	Hd.	EII	9.34	53.07	0	5.5	3½
31	Fn.	EII	9.62	51.74	0	5.0	3
Apr. 2	Fn.	EII	9.38	52.11	0	5.3	3
1914							
Mar. 20	Wy.	EI	9.88	53.14	0	5.0	3½
23	Fn.	EI	9.86	52.28	0	5.0	2
Apr. 4	Hd.	WI	9.51	52.62	0	6.5	3
5	Hd.	WI	9.40	51.88	I	4.4	2½
Mean	1913.64		22 55 9.583	+83 51 52.38			
Corr			−0.081	+0.45			

Groombridge 3940

			h m s	° ′ ″			
1911							
Aug. 9	Fn.	EII	22 55 16.249	+52 10 16.60	0	---	2½
10	R.	EII	16.247	16.55	0	---	1
Oct. 16	Fn.	WII	16.212	17.36	0	---	2
18	Fn.	WII	16.214	17.17	0	5.4	2
1914							
Oct. 19	Hd.	EI	16.311	17.11	0	6.5	2½
21	An.	EI	16.252	16.56	0	6.0	3
23	Fn.	EI	16.283	16.42	0	6.0	2
Nov. 2	Fn.	WI	16.225	18.54	0	6.5	2½
3	An.	WI	16.249	17.54	0	6.0	3
Mean	1913.43		22 55 16.249	+52 10 17.09			
Corr			−0.081	−0.29			

Bradley 3039

				h	m	s	°	′	″			
1912												
Oct.	16	Fn.	WII	22	56	1.025	−0	17	50.67	0	6.7	1½
	26	Fn.	EII			1.029			51.17	0	7.0	2
	27	R.	EII			1.033			50.37	0	6.0	2
Nov.	2	R.	WII			1.039			51.39	0	6.0	2
1914												
Aug.	7	Hd.	EI			1.055			51.93	0	7.0	2
	13	Hd.	WI			1.071			50.54	0	6.5	2½
	17	Fn.	WI			1.036			51.74	0	---	3
Sept.	9	Fn.	EI			1.058			51.61	0	6.0	3
Mean	1913.73			22	56	1.043	−0	17	51.18			
Corr						−0.081			−0.18			

Bradley 3040

				h	m	s	°	′	″			
1911												
Aug.	15	R.	EII	22	56	43.123	−7	32	40.24	0	6.5	1½
	16	Fn.	EII			43.035			40.23	0	6.4	3½
Sept.	1	Fn.	WII			43.067			41.11	0	6.7	2
	11	Fn.	WII			43.108			40.55	0	---	1½
1915												
Aug.	12	Fn.	EI			43.073			40.94	0	7.0	3
	16	Fn.	EI			43.098			40.86	0	7.0	3
	19	Fn.	WI			43.059			41.40	0	6.5	3
	25	Wy.	WI			43.073			40.33	0	7.0	3½
Mean	1913.64			22	56	43.080	−7	32	40.71			
Corr						−0.081			−0.15			

o Andromedæ

				h	m	s	°	′	″			
				22	57	46.647	+41	50	31.52			
						s			″			
1912												
Aug.	23	Fn.	WII			+0.054			+0.37	I	3.2	--
	29	R.	WII			+0.049			+0.26	0	---	1
Sept.	6	Hd.	EII			−0.004			+0.57	I	---	2
	9	Hd.	EII			−0.012			+0.24	I	2.9	2
1914												
Aug.	18	Wy.	WI			+0.009			+0.64	I	---	2½
	20	Fn.	WI			−0.003			+0.62	I	3.9	3
Sept.	13	Wy.	EI			+0.064			+0.18	I	3.4	2½
	14	Fn.	EI			+0.081			+0.40	I	3.9	2
Oct.	2	Wy.	WI			+0.038			----	I	3.9	2
	12	Hd.	WI			+0.030			----	I	3.4	2
	30	Hd.	EI			+0.053			----	I	3.4	3
Nov.	10	Fn.	WI			+0.030			----	I	3.9	2½
	13	Fn.	WI			−0.009			----	0	---	3½
	16	Hd.	EI			+0.060			----	I	2.9	3
	19	Hd.	EI			+0.036			----	I	2.9	2
Dec.	12	An.	WI			−0.069			----	0	---	3
1915												
Oct.	28	Hd.	EI			+0.038			----	I	3.4	2
Nov.	9	Hd.	WI			+0.040			----	I	3.4	2½
	13	Fn.	WI			+0.009			----	0	---	3
	29	Hd.	EI			+0.004			----	I	3.4	2
1916												
Oct.	20	Fn.	WI			−0.042			----	0	---	3
	21	Hd.	WI			−0.047			----	I	3.4	3
Nov.	15	Hd.	WI			+0.018			----	I	3.4	3
	19	Hd.	WI			−0.004			----	I	3.4	3
Dec.	*22*	*Hd.*	*WI*			*−0.022*	----		----	*I*	---	*3*
1917												
Jan.	*19*	*Hd.*	*EI*			*+0.071*	----		----	*0*	---	*2*
Nov.	6	Fn.	EII			−0.012			----	I	---	3
	16	Fn.	WII			+0.067			----	I	---	2
	19	Hd.	WII			−0.001			----	I	3.4	2
1918												
Jan.	*8*	*Hd.*	*EII*			*+0.050*	----		----	*0*	---	*3*
Mean	1915.28					+0.018			+0.41			
	1913.67											
Corr						−0.081			−0.27			

Lalande 45049

				h	m	s	°	′	″			
1912												
Aug.	1	R.	WII	22	57	56.079	−21	21	6.52	0	8.0	4
	3	R.	EII			56.084			6.52	0	---	5
	10	R.	EII			56.071			5.91	0	---	5
	20	R.	WII			56.049			7.00	0	7.0	2
1914												
Aug.	30	Wy.	WI			56.036			6.70	0	6.5	3½
	31	Fn.	WI			56.052			7.11	0	6.0	3
Sept.	19	Wy.	EI			56.076			7.52	0	6.5	3
	20	An.	EI			56.090			7.51	0	7.0	3½
Mean	1913.65			22	57	56.067	−21	21	6.85			
Corr						−0.081			−0.07			

Groombridge 3968

				h	m	s	°	′	″			
1911												
Sept.	25	Fn.	EII	22	59	2.83	+62	51	22.83	0	6.7	2½
	30	R.	EII			2.83			23.17	0	6.0	1½
Oct.	13	Hd.	WII			2.80			23.25	0	7.0	2
	23	R.	WII			2.79			23.37	0	7.0	1½
1915												
Sept.	3	Hd.	WI			2.80			22.97	0	7.0	2
	7	Wy.	WI			2.79			23.25	0	6.5	2
	13	Hd.	EI			2.81			23.08	0	6.5	2
	14	Wy.	EI			2.81			23.09	0	7.0	2
Mean	1913.73			22	59	2.808	+62	51	23.13			
Corr						−0.081			−0.33			

β Pegasi

				h	m	s	°	′	″			
				22	59	24.630	+27	35	40.34			
1911												
Oct.	4	Fn.	EII			+0.033			+0.08	I	---	4
	6	Fn.	EII			+0.042			+0.84	I	---	4
	11	Hd.	WII			+0.018			+0.44	I	2.4	2
	12	R.	WII			−0.003			+0.49	II	2.6	1½
1915												
Aug.	9	Fn.	EI			+0.003			+0.20	I	2.9	2½
	13	An.	EI			−0.015			+0.99	I	---	2½
	18	Wy.	WI			+0.032			+0.39	II	2.6	2
	31	Wy.	WI			−0.023			+0.35	I	---	3
Sept.	15	Hd.	EI			−0.002			−0.28	II	2.6	2
Mean	1913.92					+0.009			+0.39			
Corr						−0.081			−0.25			

α Pegasi

				h	m	s	°	′	″			
				23	0	16.617	+14	43	14.88			
						″			″			
1911												
May	*18*	*Hd.*	*WII*			*+0.077*	----		----	*0*	---	--
	19	*T.*	*WII*			*+0.030*	----		----	*0*	---	--
	21	*Fn.*	*WII*			*+0.133*	*−0.19*		*−0.21*	*0*	---	-
	22	*Hd.*	*EII*			*+0.094*	*−1.11*		*−1.23*	*0*	---	--
	24	*Fn.*	*EII*			*−0.033*	----		----	*0*	---	-
	25	*Hd.*	*EII*			*+0.111*	----		----	*0*	---	
	28	*Fn.*	*WII*			*+0.053*	*−0.60*		*−0.68*	*0*	---	--
	31	*Fn.*	*WII*			*+0.115*	*+1.05*		*+0.90*	*0*	---	--
June	*1*	*Hd.*	*WII*			*−0.012*	----		----	*0*	---	--
Oct.	16	Fn.	WII			+0.019			----	II	---	2
	18	Fn.	WII			+0.035			----	I	2.5	2
	24	Fn.	WII			+0.045			----	I	2.1	2
	25	Hd.	WII			+0.038			----	I	2.4	2
	26	Fn.	WII			+0.065			----	I	2.1	2
	30	Hd.	EII			+0.036			----	I	1.9	2½
Nov.	2	Fn.	EII			+0.020			----	I	2.2	2
	3	Hd.	EII			+0.091			----	I	2.4	2
	7	R.	EII			+0.011			----	II	---	2½
	10	Hd.	EII			+0.044			----	I	1.9	3
	11	R.	EII			+0.026			----	0	---	--
	18	Hd.	EII			+0.046			−0.08	I	---	3
	22	R.	EII			+0.063			−0.27	II	2.6	1½

				s	"	"			
1911									
Dec.	1	Hd.	WII	+0.034		----	I	2.7	2
	4	R.	WII	+0.062		+1.25	I	---	2½
	5	R.	WII	+0.119		+0.78	II	2.6	2
	8	R.	WII	+0.069		+0.14	II	2.6	1
	11	Hd.	EII	+0.074		−0.56	I	---	4
1912									
Apr.	*22*	*Hd.*	*WII*	*+0.058*	*−0.47*	*−0.45*	*0*	---	*3*
	30	*R.*	*EII*	*+0.060*	*+0.32*	*+0.32*	*0*	---	*5*
May	*2*	*Hd.*	*EII*	*+0.070*	*−0.33*	*−0.33*	*0*	---	*3*
	8	*Fn.*	*WII*	*+0.034*	*−0.22*	*−0.29*	*0*	---	*3½*
	19	*Fn.*	*EII*	*+0.052*	*−0.10*	*−0.24*	*0*	---	*3½*
	26	*Fn.*	*EII*	*+0.056*	*−0.59*	*−0.69*	*0*	---	*3*
July	30	R.	WII	+0.039		+0.28	II	2.6	1½
Aug.	6	R.	EII	+0.021		+0.12	II	2.6	1
	22	R.	WII	+0.057		+0.21	II	2.6	2
	31	R.	WII	+0.060		−0.06	0	---	3
Sept.	10	R.	EII	+0.002		−0.78	I	2.4	2
	17	R.	WII	+0.051		−0.30	II	2.6	1
	27	Hd.	EII	+0.039		----	II	2.6	3
Oct.	9	Hd.	WII	+0.043		----	I	2.9	2
	14	Fn.	WII	+0.035		−0.24	0	---	2½
	18	Fn.	WII	+0.079		+0.49	0	---	1½
	27	R.	EII	+0.053		----	I	---	2
	28	Fn.	EII	+0.023		−0.32	I	2.1	2
Nov.	4	Fn.	WII	+0.073		−0.44	I	---	1½
	5	Fn.	WII	+0.047		----	0	---	--
	9	Fn.	WII	+0.029		−0.14	I	2.2	2
	12	Fn.	EII	+0.029		----	I	2.4	3½
1913									
Apr.	*17*	*Fn.*	*WII*	*−0.032*	*−0.35*	*−0.36*	*0*	---	*3½*
	20	*Hd.*	*EII*	*+0.070*	*−0.57*	*−0.50*	*0*	---	*3½*
	21	*Fn.*	*EII*	*+0.042*	*+0.96*	*+0.91*	*0*	---	*3*
	29	*R.*	*EII*	*+0.062*	*−0.02*	*−0.02*	*0*	---	*3*
	30	*Hd.*	*EII*	*+0.113*	*+0.06*	*+0.04*	*0*	---	*3*
May	*1*	*Fn.*	*EII*	*+0.096*	*−0.62*	*−0.67*	*0*	---	*3*
	7	*Hd.*	*EII*	*+0.121*	*0.00*	*−0.02*	*0*	---	*3*
	8	*Fn.*	*EII*	-----	*−0.26*	*−0.36*	*0*	---	--
	11	*Hd.*	*WII*	*+0.135*	*−0.18*	*−0.22*	*0*	---	*2*
Nov.	3	Fn.	EI	+0.043		+0.13	I	2.3	2½
	4	R.	EI	+0.025		−0.17	II	2.1	3
	5	Hd.	EI	+0.057		----	II	2.6	2
	6	Fn.	EI	+0.005		----	I	2.3	2½
	12	Hd.	WI	+0.052		----	II	2.6	2
	13	Fn.	WI	+0.046		−0.30	0	---	3
	17	Fn.	WI	+0.085		----	I	2.4	1½
	20	Fn.	WI	+0.060		----	I	2.4	2½
	21	R.	WI	+0.067		----	II	1.6	2
	22	Hd.	WI	+0.064		+0.14	II	2.6	2
	24	Fn.	WI	+0.055		−0.15	I	2.4	3
	25	R.	EI	+0.047		----	II	2.1	2
Dec.	3	Hd.	EI	+0.038		−0.23	I	---	2
	4	Fn.	EI	+0.055		−0.31	I	---	2½
	5	Fn.	EI	+0.042		+0.05	I	2.4	3
1914									
Apr.	*17*	*Hd.*	*EI*	*+0.134*	*0.00*	*−0.01*	*0*	---	*3*
	26	*Wy.*	*EI*	*+0.029*	*−0.03*	*+0.01*	*0*	---	*3½*
	27	*Hd.*	*EI*	*+0.119*	*+0.29*	*+0.34*	*0*	---	*3½*
	30	*Hd.*	*WI*	-----	*−0.07*	*−0.07*	*0*	---	*2½*
May	*1*	*Fn.*	*WI*	*+0.009*	*+0.20*	*+0.18*	*0*	---	*3*
	6	*Wy.*	*WI*	*+0.082*	*−1.54*	*−1.53*	*0*	---	*3*
	10	*Hd.*	*WI*	*+0.091*	*−0.01*	*−0.14*	*0*	---	*3*
Sept.	1	An.	WI	+0.062		----	II	1.1	1½
	2	Wy.	WI	+0.062		----	II	2.1	2
	4	Fn.	WI	+0.067		----	I	2.4	2½
	5	Wy.	WI	+0.053		----	II	2.6	2
	10	An.	EI	+0.022		+0.50	II	---	1½
	17	Fn.	EI	+0.051		----	I	---	2
	21	Hd.	EI	+0.005		----	II	2.6	2
	23	An.	EI	+0.034		----	I	---	2½
	26	An.	EI	+0.065		----	I	---	-
	28	Hd.	WI	+0.009		----	II	2.6	2
Oct.	5	Wy.	WI	+0.050		−0.74	I	2.9	3
	6	Hd.	WI	+0.051		----	0	---	3
	9	Hd.	WI	+0.055		−0.06	I	2.9	2
	10	An.	WI	+0.020		+0.51	II	---	2
	12	Hd.	WI	+0.030		+0.24	II	2.6	2
	17	An.	EI	+0.043		----	0	---	3
	22	Hd.	EI	+0.065		----	I	2.9	2½
1914									
Oct.	23	Fn.	EI	+0.066		----	I	2.4	2½
	28	An.	EI	+0.042		−0.62	II	---	3
	30	Hd.	EI	+0.053		−0.21	II	2.6	3
	31	An.	EI	+0.073		−0.11	I	2.9	3
Nov.	2	Fn.	WI	+0.074		----	I	2.9	2½
	3	An.	WI	+0.039		----	II	---	3
	4	Hd.	WI	+0.046		----	I	---	2
	5	Fn.	WI	+0.045		----	I	---	2
	7	Hd.	WI	+0.065		−0.37	I	2.9	3
	9	Hd.	WI	+0.033		−0.21	II	2.6	2
	10	Fn.	WI	+0.056		+1.11	I	2.4	2½
	11	An.	WI	+0.116		−0.69	I	2.9	3
	13	Fn.	WI	+0.052		+0.35	I	3.4	3½
	16	Hd.	EI	+0.046		----	II	2.1	3
	18	Fn.	EI	+0.024		+0.15	I	---	2
	19	Hd.	EI	+0.043		−0.13	II	2.6	2
	20	Wy.	EI	+0.011		----	0	---	3½
	21	Fn.	EI	+0.035		+0.38	I	2.9	2
	25	Fn.	EI	+0.048		----	I	2.9	3½
Dec.	12	An.	WI	+0.038		----	0	---	3
	14	Fn.	WI	+0.121		----	I	---	2½
1915									
Mar.	*30*	*An.*	*EI*	*+0.087*	----	----	*0*	---	*3½*
	31	*Fn.*	*EI*	*+0.054*	----	----	*0*	---	*3½*
Apr.	*6*	*An.*	*EI*	*+0.020*	*+0.10*	*+0.10*	*0*	---	*3*
	7	*Hd.*	*EI*	*+0.064*	*−0.36*	*−0.30*	*0*	---	*3½*
	12	*Fn.*	*WI*	*+0.009*	*−1.01*	*−0.94*	*0*	---	*3½*
	13	*An.*	*WI*	*+0.004*	*−0.90*	*−0.84*	*0*	---	*3½*
	14	*Hd.*	*WI*	*+0.046*	*−0.69*	*−0.68*	*0*	---	*3*
	15	*Fn.*	*WI*	-----	*−0.81*	*−0.85*	*0*	---	*3½*
	23	*An.*	*WI*	*+0.168*	----	----	*0*	---	*3*
	27	*Hd.*	*EI*	-----	*−0.76*	*−0.78*	*0*	---	*3*
	29	*Wy.*	*EI*	*+0.071*	*+0.07*	*+0.08*	*0*	---	*3½*
	30	*Hd.*	*EI*	-----	*−0.08*	*−0.13*	*0*	---	*3*
May	*5*	*Fn.*	*EI*	*+0.053*	*+0.54*	*+0.43*	*0*	---	*3½*
	9	*Hd.*	*EI*	*+0.048*	*−0.46*	*−0.48*	*0*	---	*3*
Sept.	21	Wy.	EI	+0.024		----	I	2.9	3
Oct.	9	Fn.	WI	+0.035		+0.04	I	2.4	3
	11	Fn.	WI	+0.022		+0.03	I	2.4	2
	12	Wy.	WI	+0.052		−0.28	II	2.6	2½
	13	Hd.	WI	+0.023		−0.05	0	---	3
	23	Fn.	WI	+0.034		+0.20	I	2.4	2
	25	Hd.	WI	+0.027		−0.35	II	2.6	2
	28	Hd.	EI	+0.041		+0.02	II	2.6	2
	29	Fn.	EI	+0.047		−0.46	I	2.4	3
	30	Wy.	EI	+0.041		+0.52	II	3.1	3
Nov.	1	Fn.	EI	+0.062		−0.69	I	2.9	3½
	3	Hd.	EI	+0.089		+0.63	I	2.4	2½
	6	Hd.	EI	+0.059		+0.04	II	2.6	2
	9	Hd.	WI	+0.019		−0.41	I	2.9	2½
	10	Fn.	WI	+0.021		−0.08	I	2.9	2½
	13	Fn.	WI	+0.024		−1.07	0	---	3
	16	Fn.	WI	+0.043		−0.43	I	2.4	2
	17	Wy.	WI	+0.045		−0.14	II	3.1	2½
	22	Fn.	EI	+0.064		−0.36	I	3.4	2½
	29	Hd.	EI	+0.040		−0.43	I	2.9	2
Dec.	7	Wy.	WI	+0.040		----	II	2.6	2½
	22	Hd.	WI	+0.061		----	I	2.9	2
1916									
Mar.	*10*	*Wy.*	*WI*	*+0.120*	*−1.45*	*−1.32*	*0*	---	*4*
Oct.	10	Fn.	WI	+0.090		−0.61	I	2.9	2
	23	Wy.	WI	+0.051		−0.30	II	2.6	3
	24	Hd.	WI	+0.043		−0.23	II	2.6	2
	27	Hd.	EI	+0.058		−0.38	II	2.6	3
Nov.	2	Hd.	EI	+0.048		−0.31	I	2.9	3
	3	Fn.	EI	+0.004		+0.61	I	2.9	2½
	10	Fn.	EI	+0.051		+0.48	I	2.9	2½
	20	Fn.	WI	+0.041		−0.42	I	3.4	2
	21	Hd.	WI	+0.054		----	I	2.9	2
	24	Fn.	WI	+0.055		+0.18	I	2.9	2½
	27	Wy.	WI	+0.047		−0.39	I	2.9	2½
Dec.	*22*	*Hd.*	*WI*	*+0.012*	----	----	*I*	---	*3*
1917									
Jan.	*2*	*Wy.*	*WI*	*+0.036*	*−0.68*	*−0.63*	*I*	---	*3*
	12	*Fn.*	*EI*	*+0.026*	*−1.06*	*−0.98*	*0*	---	*3*
	19	*Hd.*	*EI*	*+0.072*	*−1.53*	*−1.47*	*0*	---	*2½*
Apr.	*8*	*Hd.*	*WI*	*+0.022*	*−0.10*	*−0.04*	*0*	---	*3*

				s	″	″			
1917									
Apr. *22*	*Wy.*	*EI*		*+0.036*	*−0.45*	*−0.43*	*0*	---	*3½*
26	*Hd.*	*EI*		*+0.051*	*−0.67*	*−0.63*	*0*	---	*3*
29	*Hd.*	*EI*		*+0.110*	*−0.41*	*−0.47*	*0*	---	*3½*
May *9*	*Fn.*	*WI*		*+0.116*	*+0.05*	*+0.01*	*0*	---	*3½*
14	*Hd.*	*WI*		*+0.067*	*−0.15*	*−0.12*	*0*	---	*2½*
Sept. 18	Wy.	EII		+0.032		+0.16	I	3.9	2
Oct. 4	Hd.	WII		+0.061		+0.10	II	3.1	2
15	Fn.	EII		+0.019		−0.19	I	2.4	3
16	Wy.	EII		+0.065		+0.37	I	2.9	2½
22	Hd.	EII		+0.045		+0.66	II	2.6	3
25	Hd.	EII		+0.047		−0.04	I	2.9	2½
26	Fn.	EII		+0.048		−0.34	I	3.4	3½
Nov. 2	Fn.	EII		+0.042		−0.23	I	2.9	2
20	Fn.	WII		+0.020		+0.08	I	2.4	2½
1918									
Jan. *8*	*Hd.*	*EII*		*+0.050*	*−0.83*	*−0.75*	*0*	---	*3½*
10	*Fn.*	*EII*		*+0.087*	*−0.97*	*−0.91*	*0*	---	*3*
19	*Wy.*	*WII*		*+0.055*	*−1.47*	*−1.34*	*0*	---	*3½*
21	*Fn.*	*WII*		*+0.101*	*−1.74*	*−1.74*	*0*	---	*3½*
Apr. *15*	*Wy.*	*EII*		*+0.088*	*−0.98*	*−0.92*	*0*	---	*4*
May *1*	*Fn.*	*EII*		*+0.101*	*+0.34*	*+0.35*	*0*	---	*3½*
5	*Fn.*	*EII*		*+0.037*	*−0.41*	*−0.44*	*0*	---	*3½*
7	*Fn.*	*EII*		*+0.010*	*+0.40*	*+0.34*	*0*	---	*3½*
8	*Fn.*	*EII*		*+0.055*	----	----	*0*	---	*3½*
Mean------	1914.59			+0.047		−0.06			
	1915.06								
Corr------				−0.081		−0.22			

Bradley 3048 *mean*

			h	m	s	°	′	″			
1912											
Sept. 20	Hd.	WII	23	0	28.311	− 8	10	48.16	I	4.7	3½
Oct. 2	R.	EII			28.294			47.46	0	6.0	5
5	Hd.	EII			28.317			46.79	I	4.9	2
7	R.	WII			28.300			47.77	0	5.5	2
1914											
Oct. 1	Hd.	WI			28.342			47.22	0	5.8	3
2	Wy.	WI			28.335			47.51	0	6.0	2½
19	Hd.	EI			28.384			46.69	0	6.0	2½
20	Hd.	EI			28.327			46.07	0	7.0	3
Mean------	1913.76		23	0	28.326	− 8	10	47.21			
Corr------					−0.081			−0.15			

55 Pegasi

			h	m	s	°	′	″			
			23	2	28.198	+ 8	55	23.05			
1912											
Oct. 8	Hd.	WII			+0.068			+0.58	I	3.9	3
9	Hd.	WII			+0.028			+0.27	I	---	2
26	Fn.	EII			+0.039			−0.13	I	4.2	2
28	Fn.	EII			+0.037			+0.23	I	4.4	3
1914											
Aug. 15	Fn.	WI			+0.046			+0.46	0	---	2½
17	Fn.	WI			+0.031			0.00	0	---	2
Sept. 17	Fn.	EI			+0.033			+0.39	0	5.5	2½
19	Wy.	EI			+0.016			+0.18	I	4.9	3½
Mean------	1913.73				+0.037			+0.25			
Corr------					−0.081			−0.21			

Weisse$_2$ XXII 1376

			h	m	s	°	′	″			
1911											
Aug. 9	Fn.	EII	23	2	48.277	+35	8	57.85	0	---	2
10	R.	EII			48.373			57.97	0	6.0	1
Sept. 1	Fn.	WII			48.339			57.87	0	6.4	2
2	R.	WII			48.304			58.53	0	6.0	2½
1915											
Aug. 13	An.	EI			48.404			58.19	0	7.0	2½
16	Fn.	EI			48.383			58.11	0	6.5	2
17	An.	WI			48.360			58.95	0	7.0	2½
19	Fn.	WI			48.383			59.08	0	---	2
Mean------	1913.63		23	2	48.353	+35	8	58.32			
Corr------					−0.081			−0.26			

Weisse$_2$ XXII 1377

			h	m	s	°	′	″			
1912											
Aug. 1	R.	WII	23	2	59.573	+20	5	44.15	0	7.5	2½
3	R.	EII			59.579			44.17	0	7.0	3
20	R.	WII			59.589			44.26	0	7.5	1
Sept. 6	Hd.	EII			59.572			43.69	0	---	2
1914											
Sept. 5	Wy.	WI			59.584			44.03	0	7.0	2
9	Fn.	EI			59.587			43.42	0	7.0	2½
14	Fn.	EI			59.576			43.74	0	6.5	2
28	Hd.	WI			59.550			44.23	0	6.5	2
Mean------	1913.66		23	2	59.576	+20	5	43.96			
Corr------					−0.081			−0.23			

Weisse$_2$ XXII 1387

			h	m	s	°	′	″			
1911											
Aug. 15	R.	EII	23	3	19.923	+29	34	3.67	0	7.0	1½
18	Fn.	EII			19.885			3.79	0	7.0	2½
Sept. 11	Fn.	WII			19.897			3.40	0	7.0	--
13	R.	WII			19.894			3.62	0	7.0	1
1915											
Sept. 8	Hd.	WI			19.909			3.69	0	7.5	2½
10	Hd.	WI			19.912			3.74	0	7.5	2
16	Wy.	EI			19.908			3.17	0	7.5	2
21	Wy.	EI			19.912			2.67	0	7.5	3
Mean------	1913.68		23	3	19.905	+29	34	3.47			
Corr------					−0.081			−0.25			

Bradley 3063

			h	m	s	°	′	″			
1912											
Oct. 15	R.	WII	23	3	32.192	+45	54	3.59	I	4.4	2
16	Fn.	WII			32.065			3.34	0	5.4	1
30	Fn.	EII			32.218			3.79	0	5.5	2½
31	Hd.	EII			32.200			3.49	0	---	3
Nov. 10	R.	EII			32.172			3.12	I	4.4	1½
1913											
Nov. 5	Hd.	EI			32.182			3.59	0	5.5	2½
6	Fn.	EI			32.167			3.40	0	5.0	2
20	Fn.	WI			32.241			3.61	0	5.5	2
21	R.	WI			32.192			3.62	I	4.4	2
Mean------	1913.29		23	3	32.181	+45	54	3.51			
Corr------					−0.081			−0.28			

Bradley 3059

			h	m	s	°	′	″			
1912											
Sept. 9	Hd.	EII	23	4	4.398	+1	38	15.68	0	5.5	2
12	R.	WII			4.401			16.08	I	4.4	1
14	R.	WII			4.400			15.74	0	---	1
27	Hd.	EII			4.418			15.55	0	6.0	3½
1913											
Nov. 7	R.	EI			4.439			15.92	I	4.4	3
12	Hd.	WI			4.360			16.66	0	5.5	2
17	Fn.	WI			4.436			16.55	0	5.5	1½
25	R.	EI			4.424			16.02	I	4.9	2
Mean------	1913.29		23	4	4.410	+1	38	16.02			
Corr------					−0.081			−0.18			

c^2 Aquarii

			h	m	s	°	′	″			
			23	4	38.974	−21	39	40.06			
1911											
Oct. 26	Fn.	WII			+0.119			+0.06	I	3.6	3
Nov. 10	Hd.	EII			+0.103			+0.23	I	3.1	3½
11	R.	EII			+0.092			−0.51	0	---	5
Dec. 1	Hd.	WII			+0.107			+0.08	I	4.4	3
1915											
Aug. 10	An.	EI			+0.084			----	0	---	3
12	Fn.	EI			+0.098			−0.87	I	4.4	3½
18	Wy.	WI			+0.063			−0.31	I	4.4	3
25	Wy.	WI			+0.112			−0.35	I	4.9	3½
Sept. 13	Hd.	EI			+0.088			+0.23	I	3.4	2
Mean------	1913.96				+0.096			−0.18			
	1913.76										
Corr------					−0.081			−0.06			

Lacaille 9383

				h	m	s	°	′	″			
1912												
Sept.	20	Hd.	WII	23	4	53.077	−28	34	36.13	0	6.0	3½
	28	R.	EII			53.144			36.13	0	---	2½
	30	R.	EII			53.221			36.66	0	---	4
Oct.	7	R.	WII			53.139			37.03	0	6.5	2½
	27	R.	EII			53 143			35.75	0	6.5	2
1914												
Aug.	30	Wy.	WI			53.137			37.17	0	6.5	4
	31	Fn.	WI			53.104			36.26	0	6.5	3
Sept.	22	Wy.	EI			53.174			35.04	0	7.0	3
	23	An.	EI			53.140			36.08	0	6.5	3½
Mean		1913.62		23	4	53.142	−28	34	36.25			
Corr						−0.081			+0.01			

Bradley 3068

				h	m	s	°	′	″			
1911												
Oct.	6	Fn.	EII	23	4	58.881	+8	11	20.73	0	---	4
	13	Hd.	WII			58.852			21.54	0	5.5	2
	23	R.	WII			58.928			21.06	0	5.5	2
Nov.	2	Fn.	EII			58.900			21.05	0	5.2	2½
1914												
Oct.	30	Hd.	EI			58.886			21.54	I	4.9	3
	31	An.	EI			58.913			21.39	I	4.4	3
Nov.	4	Hd.	WI			58.918			21.44	0	---	3½
	7	Hd.	WI			58.912			20.98	0	5.5	3½
Mean		1913.32		23	4	58.899	+8	11	21.22			
Corr						−0.081			−0.20			

π Cephei [1]

	h	m	s	°	′	″
	23	5	1.949	+74	54	2.86

1912									
Sept.	17	R.	WII	−0.02		+0.43	0	---	---
	19	R.	WII	−0.02		+0.70	I	4.4	2
Oct.	1	R.	EII	−0.09		+0.67	I	3.9	2½
	2	R.	EII	−0.01		+1.41	I	4.4	3
1914									
Aug.	18	Wy.	WI	+0.08		+0.36	I	---	2½
	20	Fn.	WI	−0.07		−0.11	0	5.0	2½
Sept.	26	An.	EI	+0.11		+0.35	I	3.4	3
Oct.	19	Hd.	EI	+0.08		+0.33	I	4.4	2
Mean		1913.72		+0.008		+0.52			
Corr				−0.081		−0.35			

π Cephei s. p.

	h	m	s	°	′	″
	23	5	1.950	+74	54	2.86

1913									
Mar.	31	Fn.	EII	−0.13		−0.03	0	5.0	3½
Apr.	1	Hd.	EII	−0.03		−0.19	0	---	4
	7	Fn.	WII	−0.36		−0.29	0	5.0	4
	8	Hd.	WII	−0.05		−0.66	0	---	3½
1914									
Apr.	8	Hd.	WI	−0.25		+0.08	0	---	3½
	9	Fn.	WI	+0.02		−0.67	0	4.5	3
	13	Fn.	EI	+0.12		+0.03	0	4.5	3
	17	Wy.	EI	+0.06		−1.56	0	5.5	3
Mean		1913.77		−0.078		−0.41			
Corr				−0.081		+0.53			

Bradley 3070

				h	m	s	°	′	″			
1911												
Sept.	25	Fn.	EII	23	6	17.436	+43	3	37.73	0	5.8	2
	30	R.	EII			17.520			38.03	0	6.0	1
Oct.	11	Hd.	WII			17.455			37.93	0	6.0	2
	12	R.	WII			17.494			38.70	0	6.0	1½
1914												
Oct.	9	Hd.	WI			17.434			37.69	0	6.5	2
	10	An.	WI			17.445			37.82	0	6.5	2
	12	Hd.	WI			17.435			37.87	0	6.0	2½
	20	Hd.	EI			17.429			37.37	0	6.5	3
	21	An.	EI			17.457			36.44	0	6.0	2
Mean		1913.44		23	6	17.456	+43	3	37.73			
Corr						−0.081			−0.28			

59 Pegasi

	h	m	s	°	′	″
	23	7	11.524	+8	13	52.52

1912									
July	26	R.	WII	+0.037		−0.31	0	6.0	3
	30	R.	WII	+0.053		−0.07	0	6.0	2
Aug.	10	R.	EII	+0.011		−0.18	0	5.5	4
Sept.	10	R.	EII	+0.039		−0.19	I	4.9	2
1913									
Nov.	3	Fn.	EI	+0.058		0.00	0	5.4	2½
	4	R.	EI	+0.039		+0.04	I	4.4	3½
	21	R.	WI	+0.024		−0.13	I	4.4	2
	22	Hd.	WI	+0.030		0.00	I	4.9	2
Mean		1913.24		+0.036		−0.10			
Corr				−0.081		−0.20			

5 H¹. Cassiopeiæ

	h	m	s	°	′	″
	23	8	57.722	+56	40	18.16

1912									
Oct.	8	Hd.	WII	−0.080		−0.12	0	---	3
	14	Fn.	WII	−0.195		−0.08	0	..	2½
	26	Fn.	EII	−0.123		+0.41	0	5.4	1½
	28	Fn.	EII	−0.105		+1.22	0	---	2½
1914									
Aug.	15	Fn.	WI	−0.068		−0.33	0	6.0	2½
	17	Fn.	WI	−0.135		+0.60	0	---	2
	30	Wy.	WI	−0.102		+1.08	I	5.4	2
Sept.	19	Wy.	EI	−0.109		+0.22	0	6.0	3
	20	An.	EI	−0.140		−0.45	0	6.5	2
Mean		1913.84		−0.117		+0.28			
Corr				−0.081		−0.31			

φ Aquarii

	h	m	s	°	′	″
	23	9	39.705	−6	32	4.43

1911									
Aug.	9	Fn.	EII	+0.001		+0.37	0	5.0	3
	10	R.	EII	+0.073		+0.37	I	3.9	1
Sept.	1	Fn.	WII	+0.033		−0.27	0	4.6	1½
	2	R.	WII	+0.078		+0.11	0	---	4
1915									
Aug.	9	Fn.	EI	+0.047		−0.63	0	4.5	3
	10	An.	EI	+0.039		....	0	---	--
	12	Fn.	EI	+0.083		−0.16	0	5.0	3
	17	An.	WI	+0.076		+0.45	I	5.4	3½
	18	Wy.	WI	+0.075		+0.13	I	4.4	3½
	19	Fn.	WI	+0.067		+0.60	0	4.5	2
Mean		1914.03		+0.057		+0.11			
		1913.85							
Corr				−0.081		−0.15			

290 Aquarii

	h	m	s	°	′	″
	23	9	58.792	−11	10	42.08

1912									
Aug.	27	R.	WII				0	---	4
Sept.	6	Hd.	EII	58.889		41.58	0	7.0	3
	9	Hd.	EII	58.849		40.55	0	6.2	2
	12	R.	WII	58.789		41.63	0	6.0	2
1914									
Aug.	22	An.	WI	58.748		41.65	0	5.5	3

[1] Double; mean observed.

			h	m	s	°	′	″				
1914												
Sept. 1	An.	WI			58.820			41.89	0	6.0	3	3½
2	Wy.	WI			58.798			41.24	0	6.0	3	
4	Fn.	WI			58.831			41.32	0	6.0	3	
21	Hd.	EI			58.831			41.49	0	6.0	2	2½
Oct. 20	Hd.	EI			58.878			41.11	0	7.0	3	
Mean	1913.89		23	9	58.822	−11	10	41.45				
Corr					−0.081			−0.14				

Pulkowa 1855, 3405

			h	m	s	°	′	″				
1911												
Aug. 15	R.	EII	23	10	56.137	−3	59	14.01	0	5.5	3	
16	Fn.	EII			56.107			14.28	0	5.7	3	
Sept. 6	R.	WII			56.088			14.42	0	6.0	1	
11	Fn.	WII			56.120			13.81	0	---	--	
1914												
Oct. 22	Hd.	EI			56.110.			13.58	0	6.0	3	
23	Fn.	EI			56.134			13.00	0	5.5	2	2½
Nov. 2	Fn.	WI			56.155			13.81	0	6.0	2	2½
4	Hd.	WI			56.159			13.84	0	6.5	3	
Mean	1913.24		23	10	56.126	−3	59	13.84				
Corr					−0.081			−0.16				

Lalande 45531

			h	m	s	°	′	″				
1912												
Sept. 17	R.	WII	23	10	58.028	+25	10	51.48	0	---	--	
20	Hd.	WII			58.007			51.95	0	6.5	2	
27	Hd.	EII			58.005			52.14	0	7.0	3	
Oct. 2	R.	EII			58.032			52.17	0	7.0	3	
1914												
Sept. 5	Wy.	WI			58.017			52.48	0	6.5	2	
22	Wy.	EI			58.079			52.89	0	7.0	2	2½
25	Wy.	EI			58.045			51.92	0	7.5	3	
28	Hd.	WI			58.015			53.06	0	7.0	3	
Mean	1913.72		23	10	58.028	+25	10	52.26				
Corr					−0.081			−0.24				

ψ Aquarii

			h	m	s	°	′	″				
			23	11	10.733	−9	34	41.14				
1911												
Aug. 18	Fn.	EII			+0.003			+0.22	I	4.1	2	2½
21	Fn.	EII			+0.039			−0.34	I	4.1	3	
Sept. 13	R.	WII			+0.049			−0.71	I	3.9	1	
18	Fn.	WII			+0.004			−0.61	I	4.1	2	2½
1914												
Oct. 30	Hd.	EI			+0.031			−0.11	I	4.4	3	
31	An.	EI			+0.058			−0.75	I	---	3	
Nov. 5	Fn.	WI			+0.064			−0.54	0	---	3	
7	Hd.	WI			+0.013			−1.29	0	5.5	3	3½
Mean	1913.26				+0.033			−0.52				
Corr					−0.081			−0.14				

γ Piscium

			h	m	s	°	′	″				
			23	12	30.166	+2	47	25.54				
1911												
May 22	*Hd.*	*EII*			*+0.090*	*−0.27*		*−0.43*	*0*	---	--	
25	*Hd.*	*EII*			*+0.109*	*+0.13*		*+0.01*	*0*	---	--	
26	*T.*	*EII*			*+0.037*	*−0.24*		*−0.34*	*0*	---	--	
31	*Fn.*	*WII*			*+0.088*	*+1.74*		*+1.46*	*0*	---	--	
Sept. 30	R.	EII			+0.069			----	I	2.9	1	1½
Oct. 11	Hd.	WII			+0.063			----	I	4.4	2	
12	R.	WII			+0.075			----	I	3.4	2	2½
13	Hd.	WII			+0.025			----	I	3.9	2	
16	Fn.	WII			+0.038			+0.21	I	3.4	2	
18	Fn.	WII			+0.054			+0.19	I	3.3	2	2½
23	R.	WII			+0.070			−0.15	I	4.4	1	
24	Fn.	WII			+0.053			−0.06	I	3.2	2	
25	Hd.	WII			+0.061			+0.47	I	3.1	2	
26	Fn.	WII			+0.073			+1.42	I	3.4	3	

			s	″	″				
1911									
Oct. 30	Hd.	EII	+0.057		----	I	2.9	2	2½
Nov. 2	Fn.	EII	+0.091		----	I	---		2½
3	Hd.	EII	+0.031		----	I	2.9	1	1½
10	Hd.	EII	+0.075		−0.33	I	3.1	3	
11	R.	EII	+0.057		−0.51	0	---		3½
22	R.	EII	+0.044		+0.42	I	3.9	1	1½
Dec. 1	Hd.	WII	+0.076		+0.25	I	3.4	2	
4	R.	WII	+0.061		+1.12	I	3.9	2	2½
5	R.	WII	+0.058		+0.09	I	4.4	2	2½
8	R.	WII	+0.022		+0.05	I	3.4	1	1½
11	Hd.	EII	+0.068		−0.20	I	2.4	3	3½
1912									
May 9	*Hd.*	*WII*	*+0.097*	*+0.41*	*+0.24*	*0*	---		*3½*
July 30	R.	WII	+0.072		+0.23	I	3.9	2	
Aug. 20	R.	WII	+0.076		+0.54	I	3.9	1	
22	R.	WII	+0.040		−0.06	I	3.9	3	
24	R.	WII	+0.062		−0.25	I	4.4	2	
31	R.	WII	+0.045		----	I	---		3
Sept. 10	R.	EII	+0.065		+0.33	I	2.9	2	
14	R.	WII	+0.063		−0.04	I	---		1
19	R.	WII	+0.071		+0.40	I	3.4	2	
28	R.	EII	+0.066		----	I	3.4	2	
30	R.	EII	+0.091		+1.24	I	---		4
Oct. 1	R.	EII	+0.055		−0.12	I	2.9	2	2½
7	R.	WII	+0.062		+0.56	I	2.9	2	
16	Fn.	WII	+0.057		+0.94	I	3.3	1	
18	Fn.	WII	+0.060		+0.18	0	---		1½
Nov. 2	R.	WII	+0.094		+0.19	I	3.4	2	
4	Fn.	WII	+0.035		−0.61	I	---		1½
5	Fn.	WII	+0.084		+0.28	I	3.4	2	2½
12	Fn.	EII	+0.016		−0.15	I	3.7	3	3½
1913									
May 11	*Hd.*	*WII*	*+0.124*	*+0.59*	*+0.53*	*0*	---		*2*
Nov. 3	Fn.	EI	+0.049		−0.30	I	3.6	2	2½
4	R.	EI	+0.075		−0.20	I	2.4	3	3½
5	Hd.	EI	+0.061		+0.43	I	3.4	2	
6	Fn.	EI	+0.083		+0.57	I	3.4	2	2½
7	R.	EI	+0.036		−0.84	I	2.4	2	2½
12	Hd.	WI	+0.051		+0.08	I	---		3
13	Fn.	WI	+0.050		−0.39	0	---		2½
17	Fn.	WI	+0.011		+0.90	I	3.4	1	1½
20	Fn.	WI	+0.031		----	I	---		3
21	R.	WI	+0.052		----	I	2.9	2	
22	Hd.	WI	+0.058		----	I	3.4	2	
24	Fn.	WI	+0.009		−0.14	I	3.9	3	
25	R.	EI	+0.070		----	I	3.9	2	
Dec. 3	Hd.	EI	+0.062		----	I	---		2
4	Fn.	EI	+0.065		+0.06	I	3.9	2	
5	Fn.	EI	+0.054		+0.50	I	3.9	3	3½
18	Fn.	WI	+0.049		+0.83	I	3.9	2	2½
1914									
Sept. 13	Wy.	EI	+0.026		+0.06	I	3.4	2	2½
26	An.	EI	+0.057		−0.56	I	3.4	2	2½
29	Wy.	WI	+0.056		−1.02	I	3.4	2	2½
30	An.	WI	+0.040		−0.15	I	3.9	2	2½
Oct. 1	Hd.	WI	+0.071		+0.11	I	3.4	2	2½
2	Wy.	WI	+0.074		+0.23	I	3.4	3	
5	Wy.	WI	+0.045		0.00	I	3.4	3	
6	Hd.	WI	+0.057		----	0	---		3
17	An.	EI	+0.037		+0.12	0	---		3
Nov. 9	Hd.	WI	+0.090		−0.55	I	2.9	2	2½
10	Fn.	WI	+0.085		+0.17	I	3.9	2	2½
11	An.	WI	+0.072		−0.74	I	3.4	3	
12	Hd.	WI	-----		−0.39	I	- -		3
13	Fn.	WI	+0.052		−0.58	0	---		3½
16	Hd.	EI	+0.061		----	I	2.9	3	
17	Wy.	EI	+0.019		+0.87	I	3.4	3	
18	Fn.	EI	+0.042		−0.29	0	---		2
19	Hd.	EI	+0.047		+0.05	I	3.4	2	
20	Wy.	EI	+0.029		----	0	---		3½
21	Fn.	EI	+0.062		−0.26	I	3.9	2	2½
Dec. 12	An.	WI	+0.068		----	0	---		3½
1915									
Apr. 29	*Wy.*	*EI*	-----	*−0.50*	*−0.48*	*0*	---		*3½*
May 9	*Hd.*	*EI*	*+0.058*	*+0.18*	*+0.17*	*0*	---		*3*
Aug. 23	Wy.	WI	+0.068		----	I	3.4	3	
31	Wy.	WI	+0.058		----	0	---		3½
Sept. 7	Wy.	WI	+0.063		−0.21	I	4.4	2	2½

			s	″			
1915							
Sept. 8	Hd.	WI	+0.072	−0.07	I	2.9	2
13	Hd.	EI	+0.080	----	I	3.4	2
14	Wy.	EI	+0.075	+0.06	I	3.4	2½
15	Hd.	EI	+0.081	+0.24	I	3.4	2
21	Wy.	EI	+0.054	+0.64	I	3.4	3
Oct. 9	Fn.	WI	+0.022	+0.01	I	3.9	3
11	Fn.	WI	+0.040	−1.17	I	3.9	2
12	Wy.	WI	+0.074	−0.11	I	3.4	3
13	Hd.	WI	+0.060	+0.31	0	---	3
25	Hd.	WI	+0.075	0.00	I	3.4	2
29	Fn.	EI	+0.082	−0.21	0	---	3½
30	Wy.	EI	+0.078	+0.55	I	3.9	3
Nov. 1	Fn.	EI	+0.059	−1.00	0	---	3½
3	Hd.	EI	+0.024	+0.49	I	3.4	2½
6	Hd.	EI	+0.045	+0.05	I	3.1	2
9	Hd.	WI	+0.082	−0.14	I	3.4	3
10	Fn.	WI	+0.064	+0.44	I	---	2½
13	Fn.	WI	+0.060	----	0	---	3
15	Hd.	WI	+0.056	−0.11	I	3.4	2½
16	Fn.	WI	+0.078	+0.63	I	3.9	2½
17	Wy.	WI	+0.051	−0.43	I	4.4	2½
22	Fn.	EI	+0.073	−0.19	0	---	2½
29	Hd.	EI	+0.032	−0.08	I	---	2
Dec. 7	Wy.	WI	+0.035	----	I	3.9	2½
22	Hd.	WI	+0.058	----	I	3.4	2
Mean	1913.97		+0.058	+0.06			
	1914.02						
Corr			−0.081	−0.19			

γ Sculptoris

	h	m	s	°	′	″			
	23	13	57.969	−33	1	21.17			
1912									
July 26	R.	WII	+0.080			+0.05	0	---	5
Aug. 1	R.	WII	+0.071			−0.40	0	---	4
3	R.	EII	+0.073			+0.84	0	---	5
10	R.	EII	+0.069			+0.34	0	---	5
Sept. 28	R.	EII	+0.138			+0.32	0	---	3
30	R.	EII	+0.119			−0.47	I	4.9	4
1914									
Aug. 8	Wy.	EI	+0.116			+0.25	0	6.0	3
20	Fn.	WI	+0.056			−0.43	0	5.5	3½
30	Wy.	WI	+0.117			+1.00	0	6.0	4
Sept. 14	Fn.	EI	+0.090			+0.14	0	5.0	3½
Mean	1913.44		+0.093			+0.16			
Corr			−0.081			+0.09			

Cape 1880, 12100

	h	m	s	°	′	″			
1911									
Aug. 22	R.	EII	14.258	−28	52	49.61	0	---	3
Sept. 20	R.	WII	14.174			50.50	0	---	4
25	Fn.	EII	14.218			50.05	0	6.8	--
Oct. 11	Hd.	WII	14.228			50.08	0	8.0	4
1914									
Oct. 9	Hd.	WI	14.249			49.40	0	7.5	3
10	An.	WI	14.257			48.61	0	7.0	4
12	Hd.	WI	14.235			49.62	0	7.0	3
19	Hd.	EI	14.268			49.87	0	7.0	3
21	An.	EI	14.207			49.80	0	7.0	3½
Mean	1913.42		14.233	−28	52	49.73			
Corr			−0.081			+0.01			

Lalande 45647

	h	m	s	°	′	″			
1912									
Oct. 9	Hd.	WII	40.040	−18	34	5.64	0	---	4
15	R.	WII	40.076			5.00	0	6.0	2½
26	Fn.	EII	40.072			5.09	0	6.0	3½
28	Fn.	EII	40.058			5.59	0	6.6	4
1914									
Aug. 31	Fn.	WI	40.093			5.25	0	6.0	2½
Sept. 1	An.	WI	------			5.99	0	6.0	3½
1914									
Sept. 2	Wy.	WI	40.068			4.53	0	6.0	3
19	Wy.	EI	40.063			4.82	0	7.0	3
20	An.	EI	40.077			4.61	0	---	3½
Mean	1913.75		40.068	−18	34	5.17			
	1913.85								
Corr			−0.081			−0.09			

o Cephei [1]

	h	m	s	°	′	″			
	23	14	55.553	+67	37	8.37			
1911									
Oct. 6	Fn.	EII	−0.11			+0.71	0	5.4	4
12	R.	WII	−0.05			+1.34	0	5.5	1½
13	Hd.	WII	−0.18			+0.74	I	3.9	2
30	Hd.	EII	−0.04			+0.41	0	5.8	2½
Nov. 2	Fn.	EII	−0.11			+0.31	0	4.4	2½
1915									
Aug. 16	Fn.	EI	−0.13			+0.63	0	5.0	2
18	Wy.	WI	+0.03			+0.04	I	5.4	3
23	Wy.	WI	−0.13			+0.50	I	---	3
Sept. 13	Hd.	EI	−0.09			+0.53	I	4.9	2
Mean	1913.51		−0.090			+0.58			
Corr			−0.081			−0.34			

o Cephei s. p.

	h	m	s	°	′	″			
	23	14	55.551	+67	37	8.38			
1912									
May 2	Fn.	EII	−0.19			−0.16	0	---	4
3	Hd.	EII	−0.07			−0.72	0	5.8	3
10	Hd.	WII	−0.06			+0.54	0	5.8	3
13	Fn.	WII	−0.08			+0.25	0	---	5
1915									
Apr. 17	An.	WI	----			−2.39	0	---	4
24	An.	WI	----			−0.21	0	---	3½
May 6	Fn.	EI	−0.19			−0.03	0	---	3½
10	Hd.	EI	−0.11			−1.71	0	6.5	3
Mean	1913.35		−0.117			−0.55			
	1913.84								
Corr			−0.081			+0.67			

B. D. +38° 4980

	h	m	s	°	′	″			
1916									
Oct. 17	Fn	WI	23 15 -----	+38	47	48.67	0	8.0	3
23	Wy.	WI	-----			48.74	0	7.5	2
24	Hd.	WI	-----			49.25	0	7.5	2
27	Hd.	EI	-----			49.64	0	7.0	3
Nov. 2	Hd.	EI	-----			48.89	0	7.5	3
Mean	1916.82		23 15 -----	+38	47	49.04			
Corr			-----			−0.27			

Bradley 3092

	h	m	s	°	′	″			
1911									
Aug. 9	Fn.	EII	23 15 45.412	+4	53	24.01	0	---	3
10	R.	EII	45.493			23.76	I	4.4	1
Sept. 1	Fn.	WII	45.452			24.06	0	5.2	1½
2	R.	WII	45.472			24.45	0	5.5	2
1915									
Aug. 9	Fn.	EI	45.479			24.16	0	5.5	2½
10	An.	EI	45.483			23.67	I	---	2
31	Wy.	WI	45.513			23.10	0	---	3
Sept. 3	Hd.	WI	45.509			23.37	0	---	2
Mean	1913.64		45.477	+4	53	23.82			
Corr			−0.081			−0.19			

[1] Double; n. fol. component observed.

τ Pegasi

			h	m	s	°	′	″			
			23	16	10.832	+23	14	51.12			
1912											
Aug. 27	R.	WII			+0.046			+0.02	I	4.4	1
31	R.	WII			+0.038			+0.65	0	---	2
Sept. 6	Hd.	EII			+0.033			+0.02	I	4.9	3
9	Hd.	EII			+0.007			+0.41	I	4.4	2
1913											
Nov. 21	R.	WI			+0.107			+0.31	I	4.4	1½
22	Hd.	WI			+0.072			+0.72	I	4.4	2
25	R.	EI			+0.022			+0.37	I	3.4	1½
Dec. 3	Hd.	EI			+0.032			+0.50	0	---	3
Mean	1913.29				+0.045			+0.38			
Corr					−0.081			−0.24			

Bradley 3099

			h	m	s	°	′	″			
1911											
Aug. 15	R.	EII	23	16	32.482	+37	41	27.91	0	5.5	2
16	Fn.	EII			32.455			27.04	0	5.9	3
Sept. 6	R.	WII			32.493			27.48	0	6.0	1
11	Fn.	WII			32.455			27.30	0	5.8	1½
1914											
Oct. 23	Fn.	EI			32.506			26.90	0	6.0	2
28	An.	EI			32.522			27.05	0	6.5	2½
Nov. 3	An.	WI			32.538			-----	0	6.5	3
4	Hd.	WI			32.535			27.15	0	---	2½
5	Fn.	WI			32.497			26.40	0	---	2½
Mean	1913.42		23	16	32.498	+37	41	27.15			
	1913.24										
Corr					−0.081			−0.27			

b^1 Aquarii

			h	m	s	°	′	″			
			23	18	14.656	−20	35	31.75			
1912											
Sept. 12	R.	WII			+0.056			−0.03	I	3.9	1½
14	R.	WII			+0.040			+0.21	0	---	2½
27	Hd.	EII			+0.117			+0.45	I	4.4	4
28	R.	EII			+0.154			−0.08	I	4.4	2
30	R.	EII			+0.121			+0.60	0	---	2
1913											
Nov. 6	Fn.	EI			+0.101			+0.09	I	3.9	3
7	R.	EI			+0.118			+0.23	I	2.9	3
12	Hd.	WI			+0.048			+0.41	I	4.4	2
13	Fn.	WI			+0.038			−0.45	0	---	3½
Mean	1913.23				+0.088			+0.16			
Corr					−0.081			−0.07			

Bradley 3110

			h	m	s	°	′	″			
1912											
Sept. 17	R.	WII	23	18	31.429	+59	38	24.27	0	---	1½
19	R.	WII			31.365			24.16	0	5.5	2
Oct. 1	R.	EII			31.295			23.93	0	5.5	1
29	R.	EII			31.313			24.47	0	6.0	3
1913											
Nov. 4	R.	EI			31.309			23.75	I	4.4	3
5	Hd.	EI			31.343			23.61	0	6.0	2
10	Fn.	WI			31.386			24.00	0	---	3½
11	R.	WI			31.299			24.57	0	5.5	3
Mean	1913.30		23	18	31.342	+59	38	24.10			
Corr					−0.081			−0.32			

Bradley 3108

			h	m	s	°	′	″			
1911											
Aug. 18	Fn.	EII	23	18	32.218	+11	49	13.77	0	5.2	2
21	Fn.	EII			32.183			13.52	0	5.3	3
Sept. 18	Fn.	WII			32.208			14.01	0	5.0	1½
Oct. 16	Fn.	WII			32.201			14.05	0	5.3	2
1914											
Oct. 21	An.	EI			32.220			13.18	I	5.4	2½
22	Hd.	EI			32.205			13.80	0	6.0	3
Nov. 2	Fn.	WI			32.237			12.46	0	5.0	2½
7	Hd.	WI			32.191			13.09	0	6.0	3
Mean	1913.26		23	18	32.208	+11	49	13.48			
Corr					−0.081			−0.21			

Bradley 3111

			h	m	s	°	′	″			
1912											
July 26	R.	WII	23	20	26.368	+31	53	25.91	0	6.0	2
30	R.	WII			26.410			25.81	0	6.5	1½
Aug. 3	R.	EII			26.293			25.74	0	6.0	3
5	Fn.	EII			26.337			25.38	0	5.6	2
1914											
Aug. 8	Wy.	EI			26.377			24.81	0	6.0	2½
17	Fn.	WI			26.331			25.17	0	---	2
20	Fn.	WI			26.400			-----	0	---	3
22	An.	WI			26.407			25.42	0	6.0	1½
30	Wy.	WI			26.388			25.82	0	5.5	2½
Sept. 14	Fn.	EI			26.367			25.42	0	5.5	2
1915											
Aug. 31	Wy.	WI			26.369			-----	0	---	2½
Nov. 1	Fn.	EI			26.308			-----	0	6.0	3
16	Fn.	WI			26.343			-----	0	5.5	2
22	Fn.	EI			26.381			-----	0	---	2
29	Hd.	EI			26.364			-----	0	---	2
1916											
Oct. 20	Fn.	WI			26.320			-----	0	6.0	3
Nov. 19	Hd.	WI			26.335			-----	0	6.0	3
1917											
Nov. 6	Fn.	EII			26.360			-----	0	---	3
Mean	1914.94		23	20	26.359	+31	53	25.50			
	1913.73										
Corr					−0.081			−0.25			

4 Cassiopeiæ

			h	m	s	°	′	″			
			23	20	50.043	+61	47	18.94			
1911											
Aug. 22	R.	EII			+0.09			+0.22	I	3.9	1
Sept. 20	R.	WII			+0.04			+0.11	I	4.4	2½
25	Fn.	EII			+0.09			+0.80	0	5.5	2
Oct. 12	R.	WII			+0.05			+0.24	I	4.4	1½
1914											
Oct. 9	Hd.	WI			+0.11			+0.53	I	4.9	2
10	An.	WI			+0.11			+0.23	I	---	3
12	Hd.	WI			+0.04			+0.13	I	4.9	2
19	Hd.	EI			+0.07			+0.24	I	4.9	2
20	Hd.	EI			+0.09			+0.68	0	---	2½
Mean	1913.42				+0.077			+0.35			
Corr					−0.081			−0.32			

υ Pegasi

			h	m	s	°	′	″			
			23	20	53.176	+22	54	30.52			
1911											
Oct. 6	Fn.	EII			+0.055			+0.05	0	---	--
13	Hd.	WII			+0.016			+0.60	I	3.9	3
18	Fn.	WII			+0.031			+0.50	I	4.4	2½
30	Hd.	EII			+0.043			+0.32	I	3.9	2½
Nov. 2	Fn.	EII			+0.034			+0.47	I	4.1	2
1914											
Oct. 30	Hd.	EI			+0.034			+0.17	I	4.4	3
31	An.	EI			+0.070			+0.42	I	4.9	2½
Nov. 9	Hd.	WI			+0.020			+0.35	I	3.9	2
10	Fn.	WI			+0.018			+1.06	I	4.4	2½
Mean	1913.15				+0.036			+0.44			
Corr					−0.081			−0.24			

Bradley 3113

			h	m	s	°	′	″			
1912											
Aug. 27	R.	WII	23	21	19.255	−21	8	6.81	0	---	5
31	R.	WII			19.262			7.29	0	6.0	3
Sept. 9	Hd.	EII			19.324			7.33	0	5.5	3
10	R.	EII			19.239			7.24	1	4.4	2
1913											
Nov. 17	Fn.	WI			19.227			7.49	0	5.5	2
21	R.	WI			19.231			7.56	I	3.4	2½
Dec. 4	Fn.	EI			19.311			7.13	0	5.5	3
5	Fn.	EI			19.307			7.83	0	5.0	3½
Mean	1913.29		23	21	19.270	−21	8	7.34			
Corr					−0.081			−0.07			

κ Piscium

			h	m	s	°	′	″			
			23	22	19.151	+0	45	45.97			
1911											
Aug. 9	Fn.	EII			−0.054			−0.02	0	---	3
10	R.	EII			+0.034			−0.34	0	5.5	1
Sept. 1	Fn.	WII			−0.031			−0.21	0	5.3	1½
2	R.	WII			+0.016			−0.24	0	5.0	1
1914											
Oct. 23	Fn.	EI			−0.002			+0.20	0	5.5	2½
28	An.	EI			+0.052			+0.10	0	5.5	3
Nov. 4	Hd.	WI			+0.028			−0.05	0	---	3
7	Hd.	WI			+0.028			−0.54	0	---	3
Mean	1913.23				+0.009			−0.14			
Corr					−0.081			−0.18			

θ Piscium

			h	m	s	°	′	″			
			23	23	24.095	+5	53	4.35			
1912											
Aug. 1	R.	WII			+0.038			+0.31	0	---	4½
10	R.	EII			+0.075			−0.15	I	4.4	2
24	R.	WII			+0.097			+0.19	I	4.4	2
Sept. 6	Hd.	EII			+0.090			−0.52	I	4.7	3
1913											
Nov. 22	Hd.	WI			+0.058			−0.29	I	4.4	2
24	Fn.	WI			+0.037			−0.68	0	4.5	3
25	R.	EI			+0.078			−0.72	I	3.4	2
Dec. 3	Hd.	EI			+0.056			−0.22	I	---	2½
Mean	1913.27				+0.066			−0.26			
Corr					−0.081			−0.19			

Weisse, XXIII 402

			h	m	s	°	′	″			
1911											
Oct. 23	R.	WII	23	23	24.318	−11	56	41.54	0	7.5	2½
24	Fn.	WII			24.285			40.81	0	6.2	2½
Nov. 11	R.	EII			24.263			41.90	0	---	3½
13	Fn.	EII			24.317			41.96	0	6.5	2
1915											
Aug. 9	Fn.	EI			24.278			41.07	0	7.0	3
10	An.	EI			24.290			41.00	0	---	3
17	An.	WI			24.331			43.13	0	7.0	3½
18	Wy.	WI			24.325			42.40	0	7.0	3½
Mean	1913.73		23	23	24.301	−11	56	41.73			
Corr					−0.081			−0.13			

Lacaille 9489

			h	m	s	°	′	″			
1912											
Sept. 12	R.	WII	23	23	40.270	−25	54	57.02	0	7.5	2
27	Hd.	EII			40.229			56.37	0	7.5	4½
28	R.	EII			40.299			57.37	0	7.5	1½
30	R.	EII			40.278			57.47	0	6.5	3
Oct. 7	R.	WII			40.313			56.46	0	---	1½
1914											
Aug. 31	Fn.	WI			40.266			57.34	0	6.5	3
Sept. 1	An.	WI			------			57.05	0	7.0	3½
2	Wy.	WI			40.272			57.27	0	7.5	3½
19	Wy.	EI			40.291			57.09	0	---	3½
20	An.	EI			40.258			57.37	0	7.5	3½
Mean	1913.61		23	23	40.275	−25	54	57.08			
	1913.71										
Corr					−0.081			−0.02			

Weisse, XXIII 434

			h	m	s	°	′	″			
1911											
Aug. 15	R.	EII	23	24	30.579	+15	30	59.47	0	7.5	1½
16	Fn.	EII			30.515			59.83	0	7.0	3
Sept. 6	R.	WII			30.522			59.64	0	7.0	1
11	Fn.	WII			30.502			59.84	0	---	1½
1914											
Oct. 19	Hd.	EI			30.542			59.92	0	7.0	2
21	An.	EI			30.555			------	0	7.0	2
Nov. 2	Fn.	WI			30.508			60.15	0	7.5	2½
3	An.	WI			30.529			60.11	0	7.5	3
Mean	1913.24		23	24	30.532	+15	30	59.85			
	1913.01										
Corr					−0.081			−0.22			

70 Pegasi

			h	m	s	°	′	″			
			23	24	36.127	+12	15	50.31			
1912											
Oct. 1	R.	EII			+0.026			−0.02	I	3.9	2
7	R.	WII			+0.031			+0.86	I	3.4	1½
8	Hd.	WII			+0.069			+0.57	0	---	2
26	Fn.	EII			+0.044			−0.54	I	4.3	--
1913											
Nov. 6	Fn.	EI			+0.060			+0.54	I	4.4	2
7	R.	EI			+0.045			+0.20	I	3.4	2
10	Fn.	WI			+0.061			−0.10	0	---	4
13	Fn.	WI			+0.055			+0.35	0	---	3
Mean	1913.32				+0.049			+0.23			
Corr					−0.081			−0.21			

Bradley 3124

			h	m	s	°	′	″			
1911											
Aug. 18	Fn.	EII	23	24	53.438	− 1	31	51.57	0	6.8	2
21	Fn.	EII			53.383			52.12	0	---	2
Sept. 13	R.	WII			53.490			52.06	0	6.5	1½
18	Fn.	WII			53.472			51.58	0	6.8	2
1915											
Aug. 12	Fn.	EI			53.442			52.68	0	7.0	3
13	An.	EI			53.473			51.86	0	---	3
16	Fn.	EI			53.420			52.03	0	7.0	3
19	Fn.	WI			53.415			51.97	0	7.0	2
23	Wy.	WI			53.411			52.62	0	7.0	3
Mean	1913.87		23	24	53.438	− 1	31	52.05			
Corr					−0.081			−0.17			

B. D. +38° 5023

			h	m	s	°	′	″			
1916											
Oct. 17	Fn.	WI	23	26	-----	+38	44	29.39	0	5.5	3
23	Wy.	WI			-----			29.67	0	6.0	2
24	Hd.	WI			-----			30.29	I	4.9	2
27	Hd.	EI			-----			29.84	I	4.9	3
Nov. 2	Hd.	EI			-----			29.54	0	6.0	3
Mean	1916.82		23	26	-----	+38	44	29.75			
Corr					-----			−0.27			

Weisse$_2$ XXIII 516

				h m	s	°	′	″				
1912												
July	26	R.	WII	23 27	2.126	+28	10	12.03	0	7.0	2	
	30	R.	WII		2.104			11.86	0	7.5	1	
Aug.	3	R.	EII		2.046			12.13	0	6.5	3	
Sept.	9	Hd.	EII		2.078			11.94	0	6.0	2	
1913												
Nov.	17	Fn.	WI		2.084			11.53	0	7.0	2	
	21	R.	WI		2.126			11.17	0	6.0	1½	
Dec.	4	Fn.	EI		2.072			11.06	0	6.5	2	
	5	Fn.	EI		2.083			11.53	0	7.0	3	
Mean		1913.26		23 27	2.090	+28	10	11.66				
Corr					−0.081			−0.25				

Weisse$_1$ XXIII 524

				h m	s	°	′	″				
1911												
Oct.	25	Hd.	WII	23 27	38.119	+ 6	35	21.90	0	6.2	2	
	26	Fn.	WII		38.139			21.60	0	...	3	
Nov.	15	Fn.	EII		38.101			21.22	0	...	2½	
	16	R.	EII		38.124			21.94	0	7.0	2½	
1914												
Oct.	30	Hd.	EI		38.098			21.34	0	6.5	3	
	31	An.	EI		38.135			21.38	0	7.0	3	
Nov.	4	Hd.	WI		38.112			21.65	0	7.5	3	
	7	Hd.	WI		38.132			20.93	0	...	3	
Mean		1913.34		23 27	38.120	+ 6	35	21.50				
Corr					−0.081			−0.20				

39 H. Cephei

				h m	s	°	′	″				
				23 27	46.16	+86	48	39.91				
					s			″				
1911												
Dec.	19	R.	EII		[−0.96][1]			+0.44	0	...	1½	
	28	Hd.	EII		+2.19			+0.17	0	5.5	3	
	29	Hd.	EII		....			+1.14	0	6.0	4	R.
	29	Hd.	EII		+1.47			+0.38	0	...	4	
1912												
Dec.	7	R.	WII		....			+0.26	0	...	..	R.
	7	R.	WII		+0.65			+0.32	0	...	..	
	10	Hd.	WII		+1.29			+0.53	0	...	3	
	12	Hd.	EII		+0.65			−0.02	0	6.0	3½	
	13	R.	EII		....			−0.43	0	...	..	R.
	13	R.	EII		....			−0.27	0	...	..	
	14	Hd.	EII		....			+0.54	0	...	2	R.
	14	Hd.	EII		+1.53			−0.14	0	6.0	2	
	15	Fn.	EII		....			+0.30	0	...	3½	R.
	15	Fn.	EII		+1.39			−0.11	0	...	3½	
	16	Hd.	EII		+1.90			+0.21	0	6.0	2	
	19	Hd.	EII		+1.50			−0.38	0	5.8	2½	
	20	R.	EII		....			+0.10	0	...	3½	R.
	20	R.	EII		+1.21			−0.04	0	...	3½	
	21	R.	EII		+1.66			−0.20	0	6.0	2½	
	24	Hd.	WII		....			−0.14	0	...	3	R.
	24	Hd.	WII		+1.08			+0.53	0	6.0	2	
	28	R.	WII		....			−0.40	0	...	3½	R.
	28	R.	WII		+0.65			+0.34	0	...	3½	
1913												
Dec.	9	R.	EI		+1.42			+0.13	I	4.9	2	
	11	Fn.	EI		+0.21			+0.31	0	...	3	
	12	R.	EI		....			−0.57	0	...	4	R.
	12	R.	EI		+1.22			0.00	0	...	4	
	13	Hd.	EI		....			+0.40	0	...	3	R.
	13	Hd.	EI		+1.66			−0.09	0	6.0	3	
	15	Fn.	WI		....			+1.04	0	...	2	R.
	15	Fn.	WI		+1.77			−0.48	0	6.0	2	
	18	Fn.	WI		+0.95			−0.01	0	...	3½	
	19	R.	WI		....			+0.26	0	...	2	R.
	19	R.	WI		+0.85			−0.21	0	6.0	2	
	20	Hd.	WI		....			+1.08	0	...	3	R.
	20	Hd.	WI		+1.19			+0.13	0	6.0	2	
	22	Fn.	WI		+0.72			−0.67	0	...	3	
	27	Wy.	WI		+0.34			+0.50	0	...	2	
	29	*Fn.*	*WI*		....	*+0.75*		*+0.86*	*0*	...	*2*	*R.*
1913					s			″	″			
Dec.	*29*	*Fn.*	*WI*		*+0.67*			*−0.55*	*−0.44*	*0*	...	*2½*
1914												
Nov.	24	Wy.	EI		+0.84			+0.27	0	6.0	3	
	25	Fn.	EI		....			+0.01	0	...	3½	R.
	25	Fn.	EI		+2.18			+0.67	0	6.0	3½	
Dec.	2	Fn.	WI		....			+0.37	0	...	3	R.
	2	Fn.	WI		+0.40			+0.75	0	...	3	
	14	Fn.	WI		+2.02			−1.56	0	6.0	3	
	17	Fn.	WI		....			+1.21	0	...	2	R.
	17	Fn.	WI		+1.57			+0.59	0	6.0	2	
	18	Hd.	WI		+1.66			+0.32	0	6.0	3	
	23	Hd.	WI		+1.07			+0.09	0	5.7	3	
1915												
Nov.	26	Wy.	EI		....			+0.72	0	...	3	R.
	26	Wy.	EI		+1.89			+0.38	0	6.0	3	
	29	Hd.	EI		+1.43			+0.23	0	...	2	
	30	Fn.	EI		....			−0.45	0	...	3½	R.
	30	Fn.	EI		+1.39			+0.29	0	5.5	3½	
Dec.	1	Wy.	EI		....			−0.02	0	...	3	R.
	1	Wy.	EI		+1.63			+0.64	0	6.5	2½	
	3	Fn.	EI		+2.07			....	0	...	3	
	4	Hd.	EI		+1.49			−0.17	0	...	2	
	6	Fn.	WI		+1.48			+0.40	0	5.5	3	
	7	Wy.	WI		....			+1.55	0	...	3	R.
	7	Wy.	WI		+1.49			+0.58	0	6.5	2½	
	8	Hd.	WI		....			+1.07	0	...	3	R.
	8	Hd.	WI		+2.05			+1.14	0	6.0	3	
	9	Hd.	WI		+2.18			+0.08	0	6.0	3	
	10	Wy.	WI		+1.44			−0.49	0	...	2½	
	11	Fn.	WI		+1.41			−0.43	0	6.5	2	
	15	Fn.	WI		+1.45			+0.80	0	6.0	3	
	18	Wy.	WI		+1.22			....	0	6.0	4	
	21	Fn.	WI		....			+0.30	0	...	2½	R.
	21	Fn.	WI		+2.22			+0.41	0	5.5	2½	
	22	Hd.	WI		+1.08			+0.13	0	6.0	3	
1916												
Nov.	21	Hd.	WI		+1.58			+0.02	0	6.0	2	
	27	Wy.	WI		+1.32			−0.82	0	6.0	3	
Dec.	1	Fn.	EI		+1.08			+1.04	0	5.5	3	
	7	Fn.	EI		+1.67			+0.70	0	5.5	3	
	8	Hd.	EI		+1.36			−0.44	0	6.0	3	
	12	Fn.	EI		+1.27			+0.49	0	6.0	3	
Mean		1914.76			+1.37			+0.14				
		1914.62										
Corr					−0.08			−0.40				

39 H. Cephei s. p.

				h m	s	°	′	″				
				23 27	46.13	+86	48	39.91				
1911												
Dec.	10	Hd.	EII		....			−0.93	0	...	3½	R.
	10	Hd.	EII		+1.57			−0.17	0	...	3½	
	18	R.	EII		....			−1.34	0	...	2½	R.
	18	R.	EII		+0.26			−1.63	0	5.5	2½	
	19	R.	EII		....			−0.29	0	...	..	R.
	19	R.	EII		+1.53			−0.27	0	...	..	
	27	Hd.	EII		+0.69			−0.02	0	5.5	4	
	28	Hd.	EII		....			−0.72	0	...	3	R.
	28	Hd.	EII		+1.06			−0.67	0	5.5	3	
1912												
Jan.	1	R.	EII		....			+0.12	0	...	4	R.
	1	R.	EII		+1.13			−0.11	0	...	4	
	4	R.	EII		[+1.77][1]			−1.32	0	...	..	
Dec.	8	Hd.	WII		+1.00			....	0	6.0	3	
	11	Hd.	EII		+1.00			+1.03	0	6.0	3	
	12	R.	EII		....			−0.93	0	...	1½	R.
	12	R.	EII		+0.94			−0.50	0	6.0	1½	
	13	Fn.	EII		....			−0.82	0	...	2	R.
	13	Fn.	EII		+1.61			−0.50	0	...	2	
	15	Hd.	EII		....			−1.81	0	...	3½	R.
	15	Hd.	EII		+0.96			−1.15	0	...	3½	
	16	Hd.	EII		+1.51			−1.13	0	...	3	
	19	R.	EII		....			−0.55	0	...	2	R.
	19	R.	EII		+0.89			−0.80	0	6.0	2	
	21	R.	EII		+1.09			−1.05	0	6.5	2	

[1] Observed by making settings with the micrometer.

				s	"	"				
1912										
Dec. 22	R.	WII		----		−1. 10	0	---	2	R.
22	R.	WII		+1. 46		−0. 87	0	6. 5	2	
28	R.	WII		----		−0. 97	0	---	2	R.
28	R.	WII		+1. 63		−1. 17	0	6. 0	2	
30	Fn.	WII		----		−1. 54	0	---	3½	R.
30	Fn.	WII		−0. 04		−0. 56	0	5. 7	3½	
1913										
Dec. 8	Hd.	EI		+1. 27		+0. 25	0	---	4	
11	Hd.	EI		----		−1. 10	0	---	3	R.
11	Hd.	EI		+2. 78		−1. 21	0	6. 0	2	
12	Fn.	EI		----		−0. 88	0	---	4	R.
12	Fn.	EI		+0. 84		−1. 46	0	---	4	
13	R.	EI		+0. 37		−0. 24	0	6. 0	3½	
18	Hd.	WI		----		−1. 37	0	---	3	R.
18	Hd.	WI		+1. 31		+0. 46	0	6. 0	3	
19	Fn.	WI		----		−0. 33	0	---	2½	R.
19	Fn.	WI		+1. 22		−0. 62	0	---	2	
26	Fn.	WI		+0. 89		−1. 12	0	6. 0	3	
29	Hd.	WI		----		−0. 48	0	---	3	R.
29	Hd.	WI		+0. 78		+0. 12	0	6. 5	3	
1914										
Nov. 23	*Wy.*	*EI*		*+0. 42*	*−0. 95*	*−0. 95*	*0*	---	*2½*	
Dec. 16	Hd.	WI		+1. 92		−0. 41	0	6. 0	3	
17	An.	WI		----		0. 00	0	---	3	R.
17	An.	WI		----		−0. 44	I	5. 4	2	
21	Hd.	WI		+1. 56		−0. 77	0	6. 5	3½	
22	Fn.	WI		----		−0. 62	0	---	3½	R.
22	Fn.	WI		+1. 40		−0. 84	0	6. 0	3½	
1915										
Nov. 27	*Wy.*	*EI*		----	*−1. 09*	*−1. 26*	*0*	---	*3½*	*R.*
27	*Wy.*	*EI*		*+1. 86*	*−1. 19*	*−1. 40*	*0*	---	*3½*	
Dec. 2	Hd.	EI		----		−0. 79	0	---	3	R.
2	Hd.	EI		+1. 45		+0. 36	0	6. 0	2	
3	Wy.	EI		----		−1. 08	0	---	3	R.
3	Wy.	EI		+1. 89		−0. 51	0	6. 5	2½	
4	Fn.	EI		----		+0. 05	0	---	3	R.
4	Fn.	EI		+0. 22		−1. 13	0	6. 0	2½	
6	Hd.	WI		----		−1. 04	0	---	2	R.
6	Hd.	WI		+0. 86		−0. 41	0	6. 0	2	
8	Wy.	WI		----		−1. 07	0	---	3	R.
8	Wy.	WI		+1. 73		−0. 78	0	---	3	
9	Fn.	WI		----		−1. 01	0	---	3	R.
9	Fn.	WI		+0. 92		+0. 16	0	6. 0	3	
10	Hd.	WI		----		−0. 09	0	---	2	R.
10	Hd.	WI		+1. 16		−0. 23	0	6. 0	2	
15	Wy.	WI		+1. 33		−0. 56	0	6. 0	3	
21	Hd.	WI		+0. 62		−1. 25	0	6. 0	3	
22	Fn.	WI		----		+0. 01	0	---	3	R.
22	Fn.	WI		+1. 02		−0. 85	0	6. 0	3	
1916										
Mar. 23	Hd.–Wy.	WI		----		−0. 27	0	---	3	R.
24	Hd. Wy.	WI		----		−0. 77	0	---	3	
31	Hd.–Wy.	EI		----		−0. 37	0	---	3	R.
Apr. 10	Hd.–Wy.	EI		----		−0. 74	0	5. 5	3	
15	Hd.–Fn.	EI		----		−0. 13	0	---	2	R.
18	Hd.–Fn.	EI		----		−0. 46	0	6. 0	3	
19	Hd.–Fn.	WI		----		−0. 31	0	---	3	
20	Hd.–Wy.	WI		----		−0. 39	0	---	3½	R.
Nov. 26	*Wy.*	*WI*		*+1. 57*	*−1. 52*	*−1. 43*	*0*	---	*3½*	
30	*Fn.*	*EI*		*+1. 45*	*−0. 19*	*−0. 16*	*0*	---	*3*	
Dec. 3	Fn.	EI		+0. 91		−1. 12	0	---	3	
6	Fn.	EI		+0. 65		−1. 56	0	5. 5	3	
7	Hd.	EI		+1. 91		−0. 83	0	6. 0	2½	
Mean------	1914. 18			+1. 15		−0. 61				
	1914. 35									
Corr------				−0. 08		+0. 43				

β Sculptoris

	h	m	s	°	′	″
	23	28	----	−38	18	58. 38

1917								
Sept. 18	Wy.	EII	----	−0. 1	0	---	3½	
Oct. 15	Fn.	EII	----	+0. 4	0	---	4½	
22	Hd.	EII	----	−0. 3	0	---	3½	
25	Hd.	EII	----	−0. 4	0	---	3½	
Mean------	1917. 78		----	−0. 10				
Corr------			----	+0. 24				

Groombridge 4089

			h	m	s	°	′	″			
1911											
Sept. 20	R.	WII	23	28	13. 31	+77	19	21. 85	0	6. 5	4
Oct. 6	Fn.	EII			13. 27			22. 02	0	---	4½
13	Hd.	WII			13. 17			21. 34	0	7. 0	3
Nov. 13	Fn.	EII			13. 37			20. 95	0	7. 0	2
1914											
Oct. 9	Hd.	WI			13. 33			21. 75	0	---	2
10	An.	WI			13. 21			22. 20	0	7. 0	3
12	Hd.	WI			13. 17			21. 55	0	7. 0	2
20	Hd.	EI			13. 42			21. 55	0	---	2½
22	Hd.	EI			13. 40			21. 03	0	7. 0	3
Mean------	1913. 45		23	28	13. 294	+77	19	21. 58			
Corr------					−0. 081			−0. 36			

Groombridge 4089 s. p.

			h	m	s	°	′	″			
1913											
Feb. 13	R.	WII	23	28	13. 22	+77	19	20. 38	0	8. 0	2
14	Fn.	WII			13. 22			19. 92	0	8. 0	4
25	R.	EII			13. 12			20. 64	0	7. 5	2½
Mar. 11	Hd.	EII			13. 08			20. 54	0	8. 0	3½
1914											
Jan. 5	Hd.	EI			13. 29			19. 96	0	8. 0	3½
17	Wy.	WI			12. 91			20. 87	0	---	3
18	Wy.	WI			13. 43			21. 79	0	---	3
Feb. 2	Hd.	WI			13. 38			20. 78	0	---	3½
9	Hd.	EI			13. 09			20. 48	0	---	3½
Apr. 3	Wy.	WI			13. 19			21. 07	0	7. 5	2½
Mean------	1913. 72		23	28	13. 193	+77	19	20. 64			
Corr------					−0. 081			+0. 51			

Groombridge 4087

			h	m	s	°	′	″			
1912											
Aug. 1	R.	WII	23	28	19. 246	+53	11	22. 67	0	7. 5	2
22	R.	WII			19. 207			22. 50	0	7. 0	2½
Sept. 10	R.	EII			19. 161			23. 45	0	6. 5	2
28	R.	EII			19. 171			23. 01	0	7. 0	2
30	R.	EII			19. 146			22. 88	0	6. 0	2½
1914											
Aug. 8	Wy.	EI			19. 241			22. 63	0	7. 0	2½
20	Fn.	WI			19. 227			23. 00	0	7. 0	2½
22	An.	WI			19. 281			22. 23	0	7. 0	2
30	Wy.	WI			19. 203			23. 20	0	6. 0	2½
Sept. 14	Fn.	EI			19. 212			22. 99	0	7. 0	2
Mean------	1913. 66		23	28	19. 210	+53	11	22. 86			
Corr------					−0. 081			−0. 30			

Bradley 3132

			h	m	s	°	′	″			
1912											
Aug. 24	R.	WII	23	28	57. 609	+22	0	7. 18	0	6. 5	1
27	R.	WII			57. 614			6. 72	I	4. 9	1½
Sept. 6	Hd.	EII			57. 612			7. 14	0	---	---
27	Hd.	EII			57. 567			7. 65	0	5. 8	3
1913											
Nov. 22	Hd.	WI			57. 607			7. 63	0	6. 0	2
24	Fn.	WI			57. 648			8. 03	0	6. 0	3
25	R.	EI			57. 580			6. 69	0	5. 5	2
Dec. 3	Hd.	EI			57. 587			6. 99	0	---	2
Mean------	1913. 29		23	28	57. 603	+22	0	7. 25			
Corr------					−0. 081			−0. 23			

72 Pegasi *mean*

	h	m	s	°	′	″
	23	29	29. 149	+30	49	42. 80

1911								
Aug. 9	Fn.	EII	+0. 006	−0. 60	0	5. 0	2½	
10	R.	EII	+0. 023	−0. 05	0	5. 0	1	
Sept. 1	Fn.	WII	−0. 017	−0. 33	0	---	---	
2	R.	WII	+0. 001	+0. 55	0	5. 0	1	

				s	″			
1914								
Sept.	25	Wy.	EI	−0.001	−0.84	0	---	3
	29	Wy.	WI	0.000	+0.15	I	4.9	2½
Oct.	5	Wy.	WI	+0.051	----	0	5.0	2½
	19	Hd.	EI	+0.047	−0.14	I	4.4	2
	23	Fn.	EI	+0.012	+0.05	0	5.0	2
	28	An.	EI	+0.013	−1.42	0	---	2½
Nov.	2	Fn.	WI	+0.004	−1.03	0	5.5	2
	3	An.	WI	+0.026	0.00	0	5.5	3
	10	Fn.	WI	+0.006	----	0	---	2
	13	Fn.	WI	+0.003	----	0	---	3
	16	Hd.	EI	+0.055	----	I	3.9	3½
	17	Wy.	EI	+0.015	−0.29	I	3.9	2½
	19	Hd.	EI	+0.022	----	I	4.4	2
	23	Fn.	EI	+0.044	----	I	3.9	2
Dec.	12	An.	WI	0.000	----	0	---	3
1915								
Nov.	1	Fn.	EI	+0.032	----	0	5.5	3
	16	Fn.	WI	+0.009	----	0	5.5	2
1916								
Nov.	19	Hd.	WI	+0.009	----	I	4.9	3
Mean		1914.44		+0.016	−0.33			
		1913.75						
Corr				−0.081	−0.25			

15 Andromedæ

				h	m	s	°	′	″			
1915												
Nov.	19	Fn.	EI	23	30	13.193	+39	44	-----	0	---	3
	22	Fn.	EI			13.206			-----	0	---	2
1916												
Oct.	20	Fn.	WI			13.136			-----	0	---	4
1917												
Nov.	4	Hd.	EII			13.189			-----	0	5.5	2½
	6	Fn.	EII			13.169			-----	0	6.0	3
Mean		1916.85		23	30	13.179	+39	44	-----			
Corr						−0.081			-----			

Weisse$_1$ XXIII 568

				h	m	s	°	′	″			
1912												
Aug.	31	R.	WII	23	30	37.530	+12	9	56.09	0	8.0	2½
Sept.	12	R.	WII			37.517			56.80	0	7.5	1
	29	R.	EII			37.491			56.45	0	7.5	2
Oct.	1	R.	EII			37.521			55.91	0	7.0	2
1913												
Nov.	5	Hd.	EI			37.539			55.95	0	7.0	2
	7	R.	EI			37.471			55.86	0	7.0	2
	10	Fn.	WI			37.449			56.25	0	7.5	3½
	11	R.	WI			37.543			56.57	0	6.5	2
Mean		1913.29		23	30	37.508	+12	9	56.24			
Corr						−0.081			−0.21			

Groombridge 4099

				h	m	s	°	′	″			
1911												
Aug.	21	Fn.	EII	23	31	5.91	+66	59	39.21	0	---	2
	22	R.	EII			5.96			38.47	0	7.0	1
Sept.	6	R.	WII			5.92			39.04	0	7.0	1
	11	Fn.	WII			5.94			38.66	0	7.0	1½
1915												
Aug.	9	Fn.	EI			5.84			39.18	0	7.5	3
	10	An.	EI			5.94			38.75	0	---	2
	17	An.	WI			5.97			38.94	0	7.0	3
	18	Wy.	WI			5.96			39.12	0	7.0	2½
Mean		1913.64		23	31	5.930	+66	59	38.92			
Corr						−0.081			−0.33			

Bradley 3139

				h	m	s	°	′	″			
1911												
Aug.	15	R.	EII	23	31	47.732	+1	36	9.88	0	5.5	1½
	16	Fn.	EII			47.717			9.06	0	6.4	3
1911												
Sept.	13	R.	WII			47.715			9.77	0	5.5	1
	18	Fn.	WII			47.782			10.61	0	---	--
1915												
Aug.	12	Fn.	EI			47.745			9.90	0	7.0	3
	13	An.	EI			47.751			10.55	0	7.0	3
	31	Wy.	WI			47.723			9.14	0	6.5	3
Sept.	3	Hd.	WI			47.686			10.33	0	---	2
Mean		1913.65		23	31	47.731	+1	36	9.90			
Corr						−0.081			−0.18			

Groombridge 4105

				h	m	s	°	′	″			
1911												
Oct.	23	R.	WII	23	33	7.911	+43	55	53.61	0	7.0	2½
	24	Fn.	WII			7.842			53.05	0	5.9	2
Nov.	2	Fn.	EII			7.880			52.43	0	6.2	2
	3	Hd.	EII			7.875			52.08	0	---	2
1915												
Aug.	19	Fn.	WI			7.910			52.38	0	6.5	2
	25	Wy.	WI			7.894			52.49	0	6.5	3
Sept.	13	Hd.	EI			7.870			52.50	0	6.0	2
	14	Wy.	EI			7.910			51.83	0	6.0	2
Mean		1913.75		23	33	7.886	+43	55	52.55			
Corr						−0.081			−0.28			

λ Andromedæ

				h	m	s	°	′	″			
				23	33	9.409	+45	58	12.26			
1912												
July	26	R.	WII			−0.014			+0.89	I	4.4	1½
	30	R.	WII			+0.008			+0.87	I	4.4	1½
Aug.	3	R.	EII			−0.065			+0.40	I	4.4	3
	5	Fn.	EII			−0.066			−0.42	I	3.9	2
1914												
Sept.	5	Wy.	WI			+0.016			−0.20	I	3.9	2
	20	An.	EI			−0.028			+0.24	I	3.9	3
	22	Wy.	EI			+0.022			−0.08	I	3.9	2½
	28	Hd.	WI			+0.005			+0.51	I	3.4	2
Nov.	10	Fn.	WI			−0.047			----	I	3.9	2
	13	Fn.	WI			−0.026			----	0	---	3
	16	Hd.	EI			−0.014			----	I	---	3½
	19	Hd.	EI			−0.010			----	I	3.4	2
	23	Fn.	EI			+0.027			----	I	4.4	2½
1915												
Nov.	13	Fn.	WI			−0.048			----	0	---	3
	16	Fn.	WI			−0.035			----	I	3.9	2
	29	Hd.	EI			+0.021			----	I	---	2
1916												
Oct.	20	Fn.	WI			−0.099			----	0	---	4
1917												
Nov.	6	Fn.	EII			−0.072			----	0	---	3
1918												
Jan.	*17*	*Fn.*	*EII*			*+0.016*	----		----	*0*	---	*3*
Mean		1914.77				−0.024			+0.28			
		1913.65										
Corr						−0.081			−0.28			

Piazzi XXIII 137

				h	m	s	°	′	″			
1912												
Sept.	9	Hd.	EII	23	33	22.474	−15	35	26.77	0	6.5	2
	10	R.	EII			22.420			26.91	0	6.5	3
Oct.	7	R.	WII			22.425			26.57	0	6.0	3
	9	Hd.	WII			22.419			26.77	0	7.0	3
1914												
Aug.	8	Wy.	EI			22.512			28.12	0	6.5	2½
	22	An.	WI			22.440			28.11	0	---	--
	30	Wy.	WI			22.454			27.63	0	6.5	3
	31	Fn.	WI			22.421			27.29	0	---	2½
Sept.	14	Fn.	EI			22.433			27.23	0	6.5	3
Mean		1913.80		23	33	22.444	−15	35	27.27			
Corr						−0.081			−0.11			

ι Andromedæ

h m s 23 33 43.139 ° ′ ″ +42 46 11.16

1912							
Oct. 29	R.	EII	+0.019	+0.28	I	4.4	2
30	Fn.	EII	+0.034	+0.04	I	4.1	2½
Nov. 2	R.	WII	+0.001	[−1.22][1]	I	4.4	2
5	Fn.	WII	−0.010	+0.36	0	4.7	2
1914							
Sept. 2	Wy.	WI	+0.023	+0.33	I	3.9	2½
4	Fn.	WI	+0.068	+0.52	I	3.9	2½
19	Wy.	EI	+0.027	+0.52	I	3.9	2½
21	Hd.	EI	+0.024	−0.15	I	3.9	2½
Oct. 5	Wy.	WI	+0.020	----	I	4.4	2
12	Hd.	WI	+0.018	----	I	3.9	2
Dec. 12	An.	WI	−0.032	----	0	---	3
1915							
Aug. 23	Wy.	WI	+0.046	----	I	4.4	2½
Sept. 7	Wy.	WI	+0.037	----	I	4.4	2
Nov. 1	Fn.	EI	+0.004	----	0	5.0	3
19	Fn.	EI	+0.031	----	0	---	2½
22	Fn.	EI	+0.053	----	0	---	2
1916							
Nov. 19	Hd.	WI	+0.014	----	I	4.4	3
Dec. 1	Fn.	EI	−0.040	----	0	4.5	3
1917							
Jan. 19	*Hd.*	*EI*	*+0.040*	----	*0*	---	*2*
Oct. 25	Hd.	EII	+0.016	----	I	4.4	2
Nov. 4	Hd.	EII	+0.024	----	I	3.9	2½
19	Hd.	WII	+0.007	----	I	3.9	2
1918							
Jan. 8	*Hd.*	*EII*	*+0.065*	----	*0*	---	*3*
Mean		1915.28	+0.018	+0.27			
		1913.90					
Corr			−0.081	−0.28			

Bradley 3146

h m s 23 34 46.391 ° ′ ″ +49 58 23.84

1912							
Oct. 31	Hd.	EII	46.388	23.73	0	---	2
Nov. 1	Fn.	WII	46.374	23.03	0	6.0	3½
6	R.	WII	46.350	-----	0	---	3
10	R.	EII	46.355	23.87	0	5.5	3
1914							
Sept. 26	An.	EI	46.400	23.18	I	5.4	2
Oct. 1	Hd.	WI	46.417	24.71	I	4.9	2
2	Wy.	WI	46.358	24.27	0	5.5	2
19	Hd.	EI	46.438	23.92	I	5.4	2
20	Hd.	EI	46.435	24.03	0	---	2
Mean		1913.91	46.391	23.84			
		1914.05					
Corr			−0.081	−0.29			

ι Piscium

h m s 23 35 19.339 ° ′ ″ +5 8 16.47

1911							
Aug. 9	Fn.	EII	+0.018	−0.35	0	4.5	2½
10	R.	EII	+0.026	−1.20	I	3.9	1
Sept. 1	Fn.	WII	+0.016	−0.38	0	---	--
2	R.	WII	+0.003	+0.32	I	4.4	1
Dec. 11	Hd.	EII	+0.003	−0.45	I	3.9	3
19	R.	EII	+0.055	+0.28	I	4.4	1½
28	Hd.	EII	+0.055	−0.65	I	3.1	3
1912							
Aug. 6	R.	EII	+0.035	+0.42	0	---	1
22	R.	WII	+0.063	+0.29	I	3.9	2
31	R.	WII	+0.048	−1.10	0	---	2½
Sept. 12	R.	WII	+0.050	+0.47	I	4.4	1½
28	R.	EII	+0.032	----	I	4.4	1½
29	R.	EII	+0.048	----	I	4.4	2
30	R.	EII	+0.064	+0.49	I	3.4	1½
Oct. 1	R.	EII	+0.034	----	I	4.4	2
10	R.	WII	+0.053	+0.01	I	---	1½
1912							
Oct. 14	Fn.	WII	+0.066	−0.25	I	3.9	3
27	R.	EII	+0.041	+0.51	I	---	2
Nov. 12	R.	EII	+0.065	+0.34	I	3.9	2½
15	Hd.	EII	-----	−0.17	0	---	4
16	Hd.	EII	+0.063	+0.28	I	3.4	2
18	Fn.	EII	+0.026	−0.48	I	3.5	1½
1913							
Nov. 5	Hd.	EI	+0.072	+0.44	I	4.4	2
6	Fn.	EI	+0.047	−0.15	I	3.9	2½
10	Fn.	WI	+0.030	----	0	---	3½
11	R.	WI	+0.040	+0.66	I	2.9	2
12	Hd.	WI	+0.027	−0.24	I	4.4	2
13	Fn.	WI	+0.033	−0.90	0	---	3
19	Hd.	WI	+0.045	−0.30	0	---	2
21	R.	WI	+0.039	+0.05	I	2.9	1
22	Hd.	WI	+0.037	+0.12	I	3.9	2
24	Fn.	WI	+0.025	+0.22	I	4.4	3½
25	R.	EI	+0.027	+0.14	I	3.4	2
Dec. 3	Hd.	EI	+0.043	+0.60	0	---	3
17	Hd.	WI	+0.054	−0.22	0	---	3
18	Fn.	WI	+0.034	+0.40	I	4.4	3½
1914							
Aug. 29	An.	WI	−0.029	+0.28	I	2.9	2½
Sept. 17	Fn.	EI	+0.091	----	0	---	2
Oct. 10	An.	WI	+0.050	−0.13	I	4.4	3
12	Hd.	WI	+0.042	−0.44	I	3.9	2
31	An.	EI	+0.018	−0.08	I	3.9	3½
Nov. 4	Hd.	WI	+0.061	+0.08	I	4.9	3
6	Wy.	WI	+0.054	+0.05	I	4.4	2½
7	Hd.	WI	+0.045	−0.41	0	---	3½
9	Hd.	WI	+0.055	−0.05	I	4.4	2½
10	Fn.	WI	+0.059	−0.05	0	4.5	2
11	An.	WI	+0.055	−0.57	I	4.4	3
13	Fn.	WI	+0.073	−0.52	0	---	3½
16	Hd.	EI	+0.024	----	I	3.9	3½
17	Wy.	EI	+0.026	+0.44	I	3.4	3
18	Fn.	EI	+0.017	+0.77	0	---	2
19	Hd.	EI	+0.013	−0.13	I	3.4	2
21	Fn.	EI	+0.024	----	I	4.4	2½
23	Fn.	EI	+0.025	−0.54	0	4.5	2
24	Hd.	EI	+0.030	+0.38	I	3.4	3
Dec. 14	Fn.	WI	+0.082	−0.13	I	4.4	2½
1915							
Aug. 23	Wy.	WI	+0.049	−0.60	I	3.4	3
Sept. 7	Wy.	WI	+0.030	−0.05	I	4.4	2½
8	Hd.	WI	+0.040	−0.12	I	2.9	2
21	Wy.	EI	+0.097	+0.65	I	3.4	3½
Oct. 11	Fn.	WI	+0.061	----	I	3.9	2½
25	Hd.	WI	+0.011	+0.36	I	3.9	2
28	Hd.	EI	+0.032	+0.18	I	4.4	2
29	Fn.	EI	+0.034	−0.64	I	---	3
30	Wy.	EI	+0.054	+0.66	I	4.4	3
Nov. 6	Hd.	EI	+0.035	+0.30	I	3.9	2
9	Hd.	WI	+0.057	−0.47	I	4.4	2½
10	Fn.	WI	+0.028	−0.25	0	5.0	2½
13	Fn.	WI	+0.038	−0.71	I	---	3
15	Hd.	WI	+0.071	−0.09	I	---	3
16	Fn.	WI	+0.052	+0.71	I	4.4	2½
19	Fn.	EI	+0.032	−1.31	I	---	3
22	Fn.	EI	+0.059	−0.07	0	---	2½
29	Hd.	EI	+0.024	+0.24	I	---	2
Mean		1914.21	+0.042	−0.05			
		1914.21					
Corr			−0.081	−0.19			

Groombridge 4120

h m s 23 35 25.44 ° ′ ″ +73 30 14.68

1911							
Oct. 4	Fn.	EII	25.44	14.68	0	---	3
6	Fn.	EII	25.36	-----	0	---	--
13	Hd.	WII	25.34	13.88	0	5.5	3
18	Fn.	WII	25.39	15.25	0	5.4	3
Nov. 16	R.	EII	25.48	14.92	0	5.5	2
1914							
Oct. 23	Fn.	EI	25.45	14.23	0	5.5	2½
28	An.	EI	25.45	14.28	0	6.0	3½
30	Hd.	EI	25.44	14.16	0	6.0	3

[1] Micrometer readings doubtful.

			h m s	° ′ ″			
1914							
Nov. 2	Fn.	WI	25.32		15.85	0	6.0 2
3	An.	WI	25.35		14.82	0	--- --
Mean	1913.31		23 35 25.402	+73 30	14.67		
	1913.48						
Corr			−0.081		−0.35		

Groombridge 4120 S. P.

			h m s	° ′ ″			
1912							
May 1	R.	EII	23 35 25.20	+73 30	14.79	0	--- 5
2	Fn.	EII	25.41		13.00	0	--- 3½
10	Hd.	WII	25.43		13.22	0	6.5 3
16	Fn.	WII	25.43		13.31	0	--- 3½
1915							
Dec. 23	Hd.	WI	25.29		13.16	0	--- 5
1916							
Jan. 14	Hd.	EI	25.43		13.75	0	6.5 3
23	Fn.	EI	25.47		13.40	0	6.5 3
Feb. 29	Hd.	WI	25.35		12.17	0	6.5 3½
Mean	1914.20		23 35 25.376	+73 30	13.35		
Corr			−0.081		+0.55		

γ Cephei

			h m s	° ′ ″			
			23 35 38.694	+77 7	49.12		
			s	″	″		
1912							
Aug. 10	R.	EII	−0.20		+0.15	I	3.2 1
24	R.	WII	−0.23		+0.36	I	3.9 2
27	R.	WII	−0.19		+0.27	I	2.9 3
Sept. 6	Hd.	EII	−0.29		+0.26	I	--- 3
1914							
Sept. 23	An.	EI	−0.15		+0.22	I	2.9 3
25	Wy.	EI	−0.16		+0.32	I	--- 3½
29	Wy.	WI	−0.21		+1.07	I	3.4 3
30	An.	WI	−0.17		−0.03	I	3.9 2½
1916							
Oct. 23	Wy.	WI	−0.36		−0.32	I	4.4 2
Nov. 7	Wy.	EI	−0.34		+0.52	I	3.9 3
10	Fn.	EI	−0.25		−0.14	I	3.4 2
27	Wy.	WI	−0.16		−0.28	I	3.4 2½
Dec. 7	Fn.	EI	−0.24		−0.16	0	4.0 3
8	Hd.	EI	−0.21		−0.21	I	3.9 3
1917							
Jan. 12	*Fn.*	*EI*	*−0.43*	*+0.17*	*+0.02*	*0*	--- 2½
Apr. 22	*Wy.*	*EI*	*−0.16*	*−0.59*	*−0.69*	*0*	--- 3½
26	*Hd.*	*EI*	*−0.04*	*+0.14*	*+0.06*	*0*	--- 3½
29	*Hd.*	*EI*	*−0.03*	*−0.03*	*−0.09*	*0*	--- 3½
May 14	*Hd.*	*WI*	*−0.19*	*+0.51*	*+0.51*	*0*	--- 3
Sept. 18	Wy.	EII	−0.32		−0.26	I	3.9 2½
Oct. 15	Fn.	EII	−0.26		−0.02	I	3.9 3
22	Hd.	EII	−0.25		−0.11	I	2.9 2
25	Hd.	EII	−0.31		−0.18	I	3.4 2
Nov. 12	Wy.	WII	−0.36		+0.07	I	3.9 3½
20	Fn.	WII	−0.15		−0.66	I	3.4 2½
1918							
Jan. 10	*Fn.*	*EII*	*−0.08*	*−0.53*	*−0.61*	*0*	--- 3
Mean	1915.89		−0.240		+0.04		
Corr			−0.081		−0.36		

γ Cephei S. P.

			h m s	° ′ ″			
			23 35 38.732	+77 7	49.10		
1913							
Jan. 21	R.	EII	−0.10		−0.69	I	3.4 2½
27	Fn.	EII	+0.06		−1.70	I	3.6 4
Feb. 8	R.	WII	−0.43		+0.95	I	4.4 2
13	R.	WII	−0.11		−1.33	I	3.9 2½
1914							
Feb. 26	Hd.	EI	+0.01		−1.82	I	3.9 3½
27	Fn.	EI	−0.03		−1.37	0	--- 3½
Mar. 12	Hd.	WI	−0.44		−0.91	I	4.4 3
13	Fn.	WI	−0.30		−1.37	0	--- 2½

			s		″		
1917							
Apr. 9	Hd.	WI	----		−1.40	I	--- 3½
10	Fn.	WI	----		−1.85	0	--- 3½
16	Fn.	WI	----		−1.82	0	--- 3½
May 1	Fn.	EI	----		−0.66	0	--- 3½
10	Fn.	WI	----		−0.71	0	--- 3½
11	Wy.	WI	----		−1.24	0	--- 3½
14	Wy.	WI	----		−1.34	I	--- 3½
15	Hd.	WI	----		−0.85	0	--- 3½
1918							
May 2	Fn.	EII	----		−1.26	0	--- 4
8	Fn.	EII	----		−0.55	I	--- 3½
Mean	1913.64		−0.168		−1.11		
	1915.80						
Corr			−0.081		+0.51		

κ Andromedæ

			h m s	° ′ ″			
			23 35 58.344	+43 50	7.66		
1911							
Oct. 25	Hd.	WII	+0.055		+0.51	I	3.9 2
26	Fn.	WII	+0.008		+0.59	I	3.7 2½
Nov. 10	Hd.	EII	−0.041		+0.73	I	3.4 2
11	R.	EII	−0.006		+0.37	D	--- 3½
1914							
Dec. 12	An.	WI	−0.055		----	0	--- 2½
1915							
Aug. 31	Wy.	WI	−0.040		+0.24	0	--- 2½
Sept. 1	Hd.	WI	+0.025		+0.55	0	--- 3
15	Hd.	EI	−0.012		+0.54	I	3.9 2
16	Wy.	EI	0.000		+0.56	I	3.9 2
1916							
Oct. 20	Fn.	WI	−0.104		----	D	--- 4
Nov. 19	Hd.	WI	−0.036		----	I	4.4 3
Dec. 1	Fn.	EI	−0.024		----	0	4.5 3
12	Fn.	EI	−0.069		----	0	4.5 3
1917							
Jan. 19	*Hd.*	*EI*	*+0.009*	----	----	*0*	--- *2*
Nov. 4	Hd.	EII	−0.016		----	I	4.4 2½
1918							
Jan. 8	*Hd.*	*EII*	*+0.046*	----	----	*0*	--- *3*
Mean	1915.03		−0.022		+0.51		
	1913.76						
Corr			−0.081		−0.28		

Weisse$_1$ XXIII 684

			h m s	° ′ ″			
1911							
Aug. 22	R.	EII	23 36 10.099	−8 24	43.60	0	7.0 2
Sept. 20	R.	WII	10.065		44.85	0	7.0 1½
25	Fn.	EII	10.077		43.04	0	--- 2½
Oct. 16	Fn.	WII	10.123		43.38	0	7.3 2½
1915							
Aug. 12	Fn.	EI	10.159		43.15	0	8.0 3
16	Fn.	EI	10.121		43.63	0	7.5 3
17	An.	WI	10.118		43.81	0	7.0 3½
18	Wy.	WI	10.138		44.57	0	7.0 3½
Mean	1913.67		23 36 10.112	−8 24	43.75		
Corr			−0.081		−0.15		

Weisse$_2$ XXIII 734

			h m s	° ′ ″			
1912							
Oct. 1	R.	EII	23 36 10.627	+36 13	16.83	0	--- 3
2	R.	EII	10.669		17.13	0	5.5 1
8	Hd.	WII	10.707		16.79	0	--- 2
9	Hd.	WII	10.695		16.89	0	6.0 2
1914							
Oct. 5	Wy.	WI	10.710		17.10	0	6.0 2
9	Hd.	WI	10.747		17.28	0	--- 2
21	An.	EI	10.750		17.61	0	6.0 2
22	Hd.	EI	10.742		17.16	0	--- 3
Mean	1913.77		23 36 10.706	+36 13	17.10		
Corr			−0.081		−0.26		

ω^2 Aquarii

			h m s	° ′ ″			
			23 38 3.376	−15 2 33.24			
1912							
Sept. 9	Hd.	EII	+0.060	−0.13	I	4.4	2
10	R.	EII	+0.065	−0.78	I	4.4	2½
14	R.	WII	+0.042	−1.26	0	---	1½
Oct. 7	R.	WII	+0.049	−1.26	I	4.4	2
1914							
Aug. 8	Wy.	EI	+0.122	−0.71	I	4.9	2½
17	Fn.	WI	+0.081	−0.08	0	---	3
20	Fn.	WI	+0.035	−0.59	0	4.5	3
Sept. 9	Fn.	EI	+0.058	−0.10	I	3.9	3
Mean	1913.68		+0.064	−0.61			
Corr			−0.081	−0.11			

i^1 Aquarii

			h m s	° ′ ″			
			23 39 32.101	−18 46 35.67			
1911							
Aug. 15	R.	EII	+0.012	+0.32	0	5.0	4
16	Fn.	EII	−0.022	−0.89	0	---	3
Sept. 6	R.	WII	+0.033	+0.21	0	6.5	1
11	Fn.	WII	−0.017	[−1.74][1]	0	5.4	2
1914							
Nov. 13	Fn.	WI	+0.069	−0.51	0	---	3½
17	Wy.	EI	+0.003	+0.41	0	5.5	3
19	Hd.	EI	−0.026	+0.67	I	4.9	3
21	Fn.	EI	+0.007	+0.11	0	5.5	3
Dec. 2	An.	WI	-----	+0.78	0	---	3½
14	Fn.	WI	+0.143	+0.15	0	5.5	3
16	An.	WI	+0.141	+0.88	0	6.0	3
Mean	1913.60		+0.034	+0.21			
	1913.93						
Corr			−0.081	−0.09			

ψ Andromedæ

			h m s	° ′ ″			
			23 41 34.227	+45 55 13.74			
1911							
Aug. 18	Fn.	EII	+0.011	+0.60	0	5.2	2
21	Fn.	EII	−0.008	+0.12	0	5.0	2
Sept. 1	Fn.	WII	−0.081	−0.15	0	---	--
2	R.	WII	+0.066	+0.78	0	6.0	1½
1914							
Oct. 10	An.	WI	+0.005	+0.79	I	5.4	2
12	Hd.	WI	−0.005	+1.34	I	4.9	2
19	Hd.	EI	+0.019	+0.63	I	4.4	2½
21	An.	EI	+0.075	+0.55	I	5.4	2
30	Hd.	EI	+0.029	----	I	4.9	2½
Nov. 2	Fn.	WI	+0.041	+1.90	0	---	2
10	Fn.	WI	−0.047	----	0	5.5	2
16	Hd.	EI	+0.017	----	I	4.4	3
23	Fn.	EI	+0.005	----	0	5.5	2
Dec. 12	An.	WI	−0.032	----	0	---	--
1915							
Aug. 31	Wy.	WI	−0.006	----	0	6.0	2½
Sept. 7	Wy.	WI	+0.012	----	I	4.9	2
Nov. 1	Fn.	EI	+0.004	----	0	5.5	3½
9	Hd.	WI	−0.017	----	0	5.5	2½
16	Fn.	WI	−0.032	----	0	5.0	1½
19	Fn.	EI	−0.019	----	0	---	2½
22	Fn.	EI	+0.019	----	0	---	2
29	Hd.	EI	+0.023	----	0	---	2
Dec. 6	Fn.	WI	−0.006	----	0	5.0	2½
1916							
Oct. 17	Fn.	WI	−0.008	----	0	5.0	3
Nov. 7	Wy.	EI	+0.012	----	I	5.4	2½
19	Hd.	WI	−0.022	----	I	4.9	3
24	Fn.	WI	0.000	----	0	5.0	2½
Dec. 1	Fn.	EI	−0.006	----	0	5.0	3
1917							
Jan. 19	*Hd.*	*EI*	*+0.018*	----	*0*	---	*2*
Nov. 4	Hd.	EII	−0.034	----	I	4.9	2
6	Fn.	EII	−0.018	----	0	---	3
Mean	1915.25		0.000	+0.73			
	1913.40						
Corr			−0.081	−0.28			

Bradley 3165

			h m s	° ′ ″			
1912							
July 26	R.	WII	23 43 19.006	−3 15 42.65	0	6.0	4
30	R.	WII	19.003	43.02	0	6.5	1½
Aug. 3	R.	EII	19.010	42.95	0	6.0	5
5	Fn.	EII	19.019	42.27	0	5.8	2
1913							
Nov. 21	R.	WI	18.988	42.20	0	5.5	3
22	Hd.	WI	18.979	42.96	0	6.0	3
25	R.	EI	19.095	42.87	0	5.5	3
Dec. 5	Fn.	EI	19.030	43.05	0	5.7	3
Mean	1913.24		23 43 19.016	−3 15 42.75			
Corr			−0.081	−0.17			

41 H. Cephei

			h m s	° ′ ″			
			23 43 36.039	+67 18 23.96			
1912							
Aug. 6	R.	EII	−0.08	+0.43	0	---	1
10	R.	EII	−0.05	+0.01	0	6.0	1
15	R.	WII	−0.06	+0.08	0	---	2
20	R.	WII	−0.08	+0.84	0	6.0	1½
1913							
Nov. 24	Fn.	WI	+0.02	+0.65	0	5.5	3
Dec. 3	Hd.	EI	−0.17	+0.52	0	6.0	3
4	Fn.	EI	−0.11	+0.51	0	---	2½
15	Fn.	WI	−0.04	+0.02	0	5.5	1½
Mean	1913.27		−0.071	+0.38			
Corr			−0.081	−0.33			

41 H. Cephei s. p.

			h m s	° ′ ″			
			23 43 36.041	+67 18 23.95			
1912							
May 10	Hd.	WII	0.00	−0.18	0	---	3
13	Fn.	WII	+0.09	+1.14	0	---	4
18	Hd.	EII	−0.08	+0.12	0	6.0	4
19	R.	EII	+0.01	−0.37	0	---	5
1916							
Jan. 14	Hd.	EI	+0.01	+0.05	0	6.0	3
25	Hd.	EI	−0.10	−1.04	0	6.5	3½
Mar. 4	Wy.	WI	0.00	−1.43	0	6.0	4
10	Fn.	WI	+0.02	+1.82	0	5.5	3
Mean	1914.24		−0.006	+0.01			
Corr			−0.081	+0.67			

δ Sculptoris

			h m s	° ′ ″			
			23 44 14.362	−28 37 42.39			
1911							
Aug. 22	R.	EII	+0.081	+1.07	I	3.9	1½
Sept. 13	R.	WII	+0.077	+0.55	I	4.4	1
18	Fn.	WII	+0.110	+1.04	0	---	3
25	Fn.	EII	+0.064	----	0	5.5	3
Oct. 6	Fn.	EII	+0.146	−0.46	0	---	4½
1914							
Oct. 31	An.	EI	+0.109	+1.39	0	---	4
Nov. 3	An.	WI	+0.166	+0.97	0	6.0	3½
4	Hd.	WI	+0.134	+1.91	0	---	3½
17	Wy.	EI	+0.088	+2.13	0	5.0	3½
Mean	1913.10		+0.108	+1.08			
	1913.28						
Corr			−0.081	+0.01			

[1] Micrometer readings doubtful.

Lacaille 9605

				h	m	s	°	′	″			
1912												
Sept. 27	Hd.	EII		23	44	39.802	−28	21	12.13	0	---	5
28	R.	EII				39.855			-----	0	---	--
30	R.	EII				39.800			-----	0	7.0	2½
Oct. 1	R.	EII				39.794			12.93	0	8.0	3½
7	R.	WII				39.771			11.51	0	7.5	3
15	R.	WII				39.803			12.80	0	7.5	3
1914												
Aug. 30	Wy.	WI				39.773			13.58	0	---	4
Sept. 1	An.	WI				39.726			12.02	0	7.0	3½
2	Wy.	WI				39.741			12.19	0	7.0	3½
4	Fn.	WI				39.826			12.63	0	7.5	3½
19	Wy.	EI				39.782			11.86	0	7.5	3
21	Hd.	EI				39.829			12.33	0	7.5	3½
Mean		1913.72		23	44	39.792	−28	21	12.40			
		1913.92										
Corr						−0.081			0.00			

Piazzi XXIII 194

				h	m	s	°	′	″			
1911												
Sept. 20	R.	WII		23	44	46.696	−22	6	53.02	0	7.0	2½
Oct. 11	Hd.	WII				46.637			53.46	0	8.0	4
Nov. 2	Fn.	EII				46.693			51.34	0	7.2	2½
3	Hd.	EII				46.692			52.55	0	6.5	1
1914												
Oct. 23	Fn.	EI				46.664			52.73	0	7.0	3
30	Hd.	EI				46.720			52.83	0	7.0	3½
Nov. 6	Wy.	WI				46.662			52.89	0	7.5	3
9	Hd.	WI				46.748			53.56	0	7.0	3
Mean		1913.32		23	44	46.689	−22	6	52.80			
Corr						−0.081			−0.06			

Bradley 3171

				h	m	s	°	′	″			
1912												
Oct. 16	Fn.	WII		23	45	5.942	+28	20	28.68	D	6.0	1
26	Fn.	EII				6.013			29.44	0	6.0	1½
27	R.	EII				6.011			29.05	0	6.0	2
Nov. 2	R.	WII				5.986			29.42	0	6.0	1½
1914												
Sept. 5	Wy.	WI				6.006			29.24	0	6.0	2
9	Fn.	EI				5.980			28.84	0	6.0	2½
14	Fn.	EI				6.012			29.60	0	6.5	2
28	Hd.	WI				6.014			28.99	0	6.0	2
Mean		1913.76		23	45	5.996	+28	20	29.16			
Corr						−0.081			−0.25			

Piazzi XXIII 200

				h	m	s	°	′	″			
1911												
Oct. 25	Hd.	WII		23	45	36.162	−10	28	36.04	0	6.0	3
26	Fn.	WII				36.211			35.77	0	6.4	2½
Nov. 7	R.	EII				36.148			34.93	0	6.5	3½
10	Hd.	EII				36.202			35.66	0	6.0	3
1914												
Nov. 13	Fn.	WI				36.209			36.84	0	7.0	3½
18	Fn.	EI				36.180			35.46	0	7.5	3
19	Hd.	EI				36.162			36.41	0	6.0	3
Dec. 2	An.	WI				------			35.04	0	7.0	3½
14	Fn.	WI				36.283			34.65	0	6.0	3
16	An.	WI				36.264			35.57	0	6.5	2½
Mean		1913.54		23	45	36.202	−10	28	35.64			
		1913.68										
Corr						−0.081			−0.14			

B. D.+63° 2064

				h	m	s	°	′	″			
1911												
Aug. 15	R.	EII		23	46	34.82	+63	29	3.91	D	6.0	1½
16	Fn.	EII				34.86			4.44	0	7.1	3
Sept. 6	R.	WII				34.77			4.21	0	6.5	1
11	Fn.	WII				34.82			4.23	D	6.5	1½
1915												
Aug. 9	Fn.	EI				34.79			3.95	D	7.0	2½
12	Fn.	EI				34.75			3.89	0	7.5	3
17	An.	WI				34.78			4.92	0	7.0	3
18	Wy.	WI				34.82			3.77	0	7.0	2½
Mean		1913.64		23	46	34.801	+63	29	4.16			
Corr						−0.081			−0.33			

Bradley 3173

				h	m	s	°	′	″			
1912												
Sept. 9	Hd.	EII		23	46	45.606	+8	48	51.58	0	6.0	2
10	R.	EII				45.622			52.21	0	5.5	2
12	R.	WII				45.649			52.10	I	4.9	1
14	R.	WII				45.600			51.47	0	---	1
1914												
Aug. 20	Fn.	WI				45.628			51.38	0	6.0	2½
22	An.	WI				45.636			51.93	0	6.0	2
31	Fn.	WI				45.636			51.59	0	6.0	2
Sept. 20	An.	EI				45.602			51.27	D	6.5	2½
22	Wy.	EI				45.630			52.62	0	6.0	3
Mean		1913.80		23	46	45.623	+8	48	51.79			
Corr						−0.081			−0.21			

Bradley 3174

				h	m	s	°	′	″			
1911												
Aug. 18	Fn.	EII		23	47	21.427	+2	25	48.74	0	6.0	2½
21	Fn.	EII				21.384			49.23	D	6.0	2
Sept. 1	Fn.	WII				21.315			48.00	0	6.3	3
2	R.	WII				21.434			48.16	0	5.5	2
1914												
Oct. 21	An.	EI				21.483			48.55	0	---	--
22	Hd.	EI				21.418			48.44	0	6.5	3
Nov. 2	Fn.	WI				21.379			48.15	0	6.0	2
7	Hd.	WI				21.404			47.82	0	6.5	3
Mean		1913.24		23	47	21.406	+2	25	48.39			
Corr						−0.081			−0.18			

φ Pegasi

				h	m	s	°	′	″			
				23	47	54.441	+18	37	13.41			
1912												
Sept. 28	R.	EII				+0.069			−0.45	0	---	2
29	R.	EII				+0.029			0.00	0	5.5	2
Oct. 8	Hd.	WII				+0.066			+0.54	0	6.0	--
9	Hd.	WII				+0.061			+0.61	0	5.5	2
27	R.	EII				+0.051			+0.60	I	4.4	1½
1913												
Nov. 19	Hd.	WI				+0.056			+0.35	0	---	2
21	R.	WI				+0.042			−0.15	I	4.4	2½
25	R.	EI				+0.068			−0.02	0	5.5	2
Dec. 9	R.	EI				+0.042			−0.66	I	3.9	2
Mean		1913.27				+0.054			+0.09			
Corr						−0.081			−0.23			

B. D.+38° 5091

				h	m	s	°	′	″			
1916												
Oct. 17	Fn.	WI		23	49	------	+38	46	52.91	0	6.5	3
23	Wy.	WI				------			52.52	0	7.0	2½
24	Hd.	WI				------			52.58	0	6.5	2
27	Hd.	EI				------			52.99	0	6.0	3
Nov. 2	Hd.	EI				------			52.73	0	6.5	3
Mean		1916.82		23	49	------	+38	46	52.75			
Corr						------			−0.27			

ρ Cassiopeiæ

			h	m	s	°	′	″			
			23	49	52.837	+56	59	55.28			
1912											
Aug. 1	R.	WII			+0.053			+0.54	0	---	1½
3	R.	EII			+0.024			+0.52	I	4.4	2
5	Fn.	EII			+0.010			+0.75	0	5.0	2
15	R.	WII			+0.048			−0.14	0	---	2
1913											
Nov. 22	Hd.	WI			+0.067			+0.28	I	4.4	2
24	Fn.	WI			+0.104			+0.64	0	5.0	3
Dec. 3	Hd.	EI			−0.016			−0.08	I	4.4	2
5	Fn.	EI			−0.045			−0.14	0	5.0	2
Mean	1913.25				+0.031			+0.30			
Corr					−0.081			−0.31			

Groombridge 4163

			h	m	s	°	′	″			
			23	50	26.301	+73	54	34.03			
1911											
Aug. 22	R.	EII			+0.11			+0.94	0	7.0	1½
Sept. 13	R.	WII			+0.19			+0.68	0	6.5	2
18	Fn.	WII			+0.11			+0.27	0	6.4	1½
Oct. 4	Fn.	EII			−0.09			+0.12	0	6.8	3
1914											
Oct. 28	An.	EI			+0.13			−0.01	0	7.0	3
30	Hd.	EI			+0.02			+0.31	0	7.0	3
31	An.	EI			+0.10			−0.20	0	7.0	3½
Nov. 4	Hd.	WI			+0.13			+0.30	0	7.5	3
5	Fn.	WI			+0.06			+0.81	0	---	3
Mean	1913.44				+0.084			+0.36			
Corr					−0.081			−0.35			

Groombridge 4163 s. p.

			h	m	s	°	′	″			
			23	50	26.300	+73	54	34.03			
1913											
Apr. 1	Hd.	EII			+0.02			−0.95	0	7.5	4
2	Fn.	EII			0.00			−0.91	0	---	4
16	Hd.	WII			+0.03			−0.97	0	---	4
17	R.	WII			+0.02			+0.06	0	6.0	2
21	Hd.	EII			+0.13			−0.98	0	7.0	3½
1914											
Mar. 22	Wy.	EI			+0.04			−1.10	0	7.0	3½
24	Wy.	EI			−0.04			−1.01	0	7.5	3½
Apr. 3	Wy.	WI			−0.01			+0.57	0	7.3	3
9	Fn.	WI			+0.06			+0.24	0	6.5	3
Mean	1913.71				+0.028			−0.56			
Corr					−0.081			+0.54			

Weisse$_2$ XXIII 1027

			h	m	s	°	′	″			
1911											
Sept. 20	R.	WII	23	52	6.231	+22	8	50.09	0	6.5	2
Oct. 11	Hd.	WII			6.215			50.50	0	6.8	2
Nov. 2	Fn.	EII			6.279			50.54	0	5.9	2
3	Hd.	EII			6.250			49.84	0	6.0	1
1915											
Aug. 9	Fn.	EI			6.229			49.81	0	6.0	2
10	An.	EI			6.267			50.33	0	---	2
17	An.	WI			6.240			50.41	0	7.0	2½
18	Wy.	WI			6.223			50.13	0	6.0	2½
Mean	1913.71		23	52	6.242	+22	8	50.21			
Corr					−0.081			−0.23			

V Cephei

			h	m	s	°	′	″			
1912											
Aug. 6	R.	EII	23	52	12.64	+82	41	25.00	0	7.5	2
10	R.	EII			12.59			25.05	0	7.5	3
20	R.	WII			12.81			24.97	0	7.5	3
22	R.	WII			12.57			24.25	0	---	2
1914											
Aug. 8	Wy.	EI			12.90			24.59	D	6.0	3
20	Fn.	WI			12.94			24.28	D	6.5	3
22	An.	WI			12.91			24.66	0	5.5	2
30	Wy.	WI			13.15			25.11	0	6.5	3
Sept. 9	Fn.	EI			13.12			24.94	D	6.0	3
Mean	1913.75		23	52	12.848	+82	41	24.76			
Corr					−0.081			−0.38			

V Cephei s. p.

			h	m	s	°	′	″			
1912											
Apr. 8	Fn.	WII	23	52	12.53	+82	41	23.34	D	5.8	2
9	Hd.	WII			12.54			23.65	0	6.0	4
19	Hd.	EII			12.59			23.27	D	7.5	3
27	R.	EII			12.71			23.61	D	---	--
1915											
Apr. 8	Hd.	EI			12.79			23.75	0	6.5	3
10	An.	EI			-----			23.40	0	---	3½
13	Fn.	WI			12.68			23.69	0	6.0	3
Mean	1913.28		23	52	12.640	+82	41	23.53			
	1913.57										
Corr					−0.081			+0.46			

Bradley 3188

			h	m	s	°	′	″			
1912											
Sept. 6	Hd.	EII	23	53	43.599	−16	20	54.71	0	---	3
9	Hd.	EII			43.556			54.00	0	6.5	2
12	R.	WII			43.485			54.88	D	6.5	1½
17	R.	WII			43.496			54.59	D	6.5	3
1914											
Sept. 1	An.	WI			43.510			54.65	0	6.5	3½
2	Wy.	WI			43.508			53.76	0	6.0	3
4	Fn.	WI			43.509			54.43	0	6.0	3
10	An.	EI			43.553			55.66	0	7.0	3
14	Fn.	EI			43.543			54.55	0	6.5	3
15	An.	EI			43.550			53.52	0	6.0	3
19	Wy.	EI			43.555			54.16	0	6.5	3
Mean	1913.96		23	53	43.533	−16	20	54.45			
Corr					−0.081			−0.11			

Lalande 46981

			h	m	s	°	′	″			
1911											
Aug. 15	R.	EII	23	53	45.899	+34	30	42.41	0	6.0	1
16	Fn.	EII			45.840			42.52	0	7.0	3
Sept. 1	Fn.	WII			45.848			42.68	0	7.3	3
2	R.	WII			45.848			43.20	0	7.5	1
1914											
Oct. 22	Hd.	EI			45.843			43.03	0	7.0	3
23	Fn.	EI			45.829			42.84	0	7.0	2
Nov. 2	Fn.	WI			45.823			44.04	D	6.5	2
3	An.	WI			45.844			43.35	0	7.0	3
Mean	1913.24		23	53	45.847	+34	30	43.01			
Corr					−0.081			−0.26			

σ Cassiopeiæ [1]

			h	m	s	°	′	″			
1911											
Aug. 18	Fn.	EII	23	54	26.354	+55	15	14.50	D	---	2½
21	Fn.	EII			26.320			14.74	0	---	2
Sept. 6	R.	WII			26.380			14.20	I	4.4	1
11	Fn.	WII			26.334			14.53	0	---	1½
1914											
Oct. 10	An.	WI			26.299			15.18	0	5.5	2
12	Hd.	WI			26.326			14.79	I	4.9	2
19	Hd.	EI			26.373			14.70	I	4.9	2
21	An.	EI			26.344			13.82	I	5.4	2
Nov. 6	Wy.	WI			26.369			14.48	I	4.4	2
Mean	1913.41		23	54	26.344	+55	15	14.55			
Corr					−0.081			−0.30			

[1] Double; s. fol. component observed.

ω Piscium

h m s 23 54 41.382 ° ′ ″ + 6 21 53.96

1911								
Oct. 12	R.	WII	+0.025	−0.60	I	4.4	2	
26	Fn.	WII	+0.050	−0.31	I	3.7	2½	
Nov. 7	Fn.	EII	+0.046	+0.59	I	3.4	3½	
10	Hd.	EII	+0.012	−0.63	I	3.4	2½	
11	R.	EII	+0.015	−0.96	I	3.4	2½	
13	Fn.	EII	−0.004	−0.16	I	3.5	2	
15	Fn.	EII	+0.015	−0.84	I	3.8	2½	
16	R.	EII	+0.056	−0.17	I	3.9	2	
21	Fn.	EII	+0.019	−1.67	0	---	2	
Dec. 4	R.	WII	+0.014	+0.78	I	3.9	2	
5	R.	WII	−0.017	−0.07	I	4.4	1½	
8	R.	WII	+0.054	+0.23	I	2.9	2	
11	Hd.	EII	+0.035	−0.61	I	3.9	3	
28	Hd.	EII	+0.021	−0.90	I	2.9	3	
29	Hd.	EII	-----	0.00	I	3.7	3	
1912								
Aug. 24	R.	WII	+0.057	+0.05	0	---	1½	
27	R.	WII	+0.055	−0.50	I	3.4	3	
Sept. 28	R.	EII	+0.032	−0.21	0	---	2	
29	R.	EII	+0.039	+0.26	I	---	1	
30	R.	EII	+0.038	----	I	3.4	--	
Oct. 1	R.	EII	+0.021	−0.38	I	3.9	2	
2	R.	EII	+0.060	+0.26	I	3.4	1½	
4	R.	EII	+0.034	+0.14	I	3.4	1	
7	R.	WII	+0.024	+0.15	I	---	3½	
15	R.	WII	+0.042	−0.15	I	3.4	2	
16	Fn.	WII	+0.018	−0.73	I	3.6	1½	
26	Fn.	EII	+0.072	−0.37	I	3.7	2½	
27	R.	EII	+0.013	+0.01	I	3.9	2	
28	Fn.	EII	+0.033	−0.50	I	3.5	2	
29	R.	EII	+0.025	+0.07	I	4.4	3	
30	Fn.	EII	+0.028	+0.88	I	3.7	3	
31	Hd.	EII	+0.038	−0.37	I	---	3	
Nov. 2	R.	WII	+0.005	−0.08	I	3.9	1½	
5	Fn.	WII	0.000	−0.43	0	---	3	
6	R.	WII	+0.002	−0.63	0	---	3	
9	Fn.	WII	+0.042	−0.74	I	3.7	2	
10	R.	EII	+0.008	−0.39	I	3.9	3½	
12	Fn.	EII	+0.056	+0.32	I	3.7	2	
15	Hd.	EII	-----	−0.55	0	---	3	
16	Hd.	EII	−0.013	−0.34	I	3.9	2	
18	Fn.	EII	+0.007	+0.01	I	3.3	1½	
19	R.	EII	+0.042	−0.35	I	---	3	
1913								
May 18	*Hd.*	*WII*	*+0.038*	*−1.18*	*−1.21*	*0*	---	*2*
Nov. 4	R.	EI	+0.021		−0.81	I	2.9	3
6	Fn.	EI	+0.036		−0.61	I	3.9	2½
19	Hd.	WI	+0.018		−0.34	0	---	2
20	Fn.	WI	+0.023		+0.05	0	---	3½
21	R.	WI	+0.016		+0.03	I	2.9	3
22	Hd.	WI	+0.034		−0.70	I	4.4	2
24	Fn.	WI	+0.024		−0.23	I	4.4	3½
25	R.	EI	+0.089		−1.21	I	3.4	2
Dec. 3	Hd.	EI	+0.068		−0.45	0	---	2
4	Fn.	EI	+0.062		−0.94	0	---	3
9	R.	EI	+0.004		−0.97	I	3.4	2
11	Fn.	EI	+0.068		−0.98	I	3.9	2½
12	R.	EI	−0.001		−1.26	I	3.4	4
13	Hd.	EI	+0.070		−0.27	I	3.4	2
15	Fn.	WI	+0.053		−0.33	I	3.9	2
17	Hd.	WI	+0.032		−0.50	0	---	3
18	Fn.	WI	+0.038		+0.09	I	3.9	3
1914								
Aug. 29	An.	WI	+0.037		+0.13	I	3.9	2½
Sept. 17	Fn.	EI	+0.040		−0.89	0	---	2
21	Hd.	EI	+0.057		−0.33	I	3.4	3
22	Wy.	EI	+0.049		+0.01	I	3.9	3
23	An.	EI	+0.040		----	I	2.9	3
25	Wy.	EI	+0.053		----	I	---	3½
26	An.	EI	+0.049		−0.22	I	3.4	2½
28	Hd.	WI	+0.045		−0.52	I	3.4	2
29	Wy.	WI	+0.021		−0.93	I	3.4	2½
Oct. 1	Hd.	WI	+0.014		−0.34	I	3.4	3
2	Wy.	WI	+0.042		−0.61	I	4.4	3
1914								
Nov. 7	Hd.	WI	+0.049		−1.30	D	---	3
9	Hd.	WI	+0.007		−1.02	I	3.4	2
10	Fn.	WI	+0.042		−0.44	I	3.9	2½
11	An.	WI	+0.013		−1.11	I	3.9	2½
13	Fn.	WI	+0.042		----	0	---	3½
16	Hd.	EI	+0.020		----	I	3.9	3½
17	Wy.	EI	+0.015		+0.59	I	3.4	2½
18	Fn.	EI	+0.011		−0.02	0	---	2
19	Hd.	EI	+0.003		−0.39	I	3.4	2
21	Fn.	EI	+0.021		−0.35	I	4.4	3
23	Fn.	EI	+0.003		−1.12	I	4.4	3
24	Hd.	EI	+0.018		−0.48	I	3.4	3
Dec. 16	An.	WI	+0.039		−0.02	I	3.9	2½
17	Fn.	WI	+0.073		+0.20	I	3.9	2
18	Hd.	WI	+0.012		−0.55	I	3.9	3
1915								
May 17	*Wy.*	*EI*	-----	*−0.13*	*−0.12*	*0*	---	*3½*
26	*Wy.*	*WI*	*+0.044*	----	----	*0*	---	*4*
Aug. 19	Fn.	WI	+0.042		−1.45	I	4.4	2½
23	Wy.	WI	+0.034		+0.44	I	3.9	2½
25	Wy.	WI	-----		−0.56	I	---	3½
31	Wy.	WI	−0.016		−0.82	I	3.9	2½
Sept. 1	Hd.	WI	+0.051		−0.67	0	---	3½
7	Wy.	WI	+0.024		−0.72	I	4.4	2½
8	Hd.	WI	+0.041		−0.45	I	2.9	2
13	Hd.	EI	+0.016		−0.37	I	3.9	2
14	Wy.	EI	+0.024		−0.26	I	3.9	2½
15	Hd.	EI	+0.058		−0.25	I	2.9	2
21	Wy.	EI	+0.057		−0.48	I	3.4	3
Oct. 9	Hd.	WI	+0.050		−0.66	I	3.4	3
25	Hd.	WI	+0.020		−0.59	I	4.4	2
29	Fn.	EI	+0.044		−1.09	0	---	3
30	Wy.	EI	+0.009		−0.04	I	4.4	3
Nov. 1	Fn.	EI	−0.010		−0.50	0	4.5	3½
3	Hd.	EI	−0.001		+0.24	I	3.4	2
6	Hd.	EI	+0.036		−0.06	I	3.9	2
9	Hd.	WI	+0.039		−0.41	I	3.9	3
10	Fn.	WI	+0.040		−1.22	0	4.5	2½
15	Hd.	WI	+0.002		−0.93	0	---	2½
16	Fn.	WI	+0.002		+0.03	I	3.9	2½
19	Fn.	EI	+0.018		−0.46	0	---	3
22	Fn.	EI	+0.069		−0.53	0	---	2½
24	Hd.	EI	+0.047		−0.54	I	3.4	2
29	Hd.	EI	−0.001		+0.14	I	---	2
Dec. 6	Fn.	WI	+0.047		−0.17	I	4.4	3
Mean------	1914.05		+0.031		−0.39			
	1914.02							
Corr----------			−0.081		−0.19			

Piazzi XXIII 249

h m s 23 55 3.684 ° ′ ″ −6 23 33.52

1912							
Sept. 10	R.	EII	3.684	33.52	0	6.0	3
27	Hd.	EII	3.717	33.31	0	6.5	3
Oct. 8	Hd.	WII	3.689	34.41	0	---	3
9	Hd.	WII	3.680	34.28	0	7.0	2
1913							
Nov. 7	R.	EI	3.735	34.41	0	5.5	3
11	R.	WI	3.675	33.20	0	5.5	2½
17	Fn.	WI	3.703	33.73	0	7.0	2
Dec. 5	Fn.	EI	3.727	34.30	0	7.5	3½
Mean------	1913.31	23 55	3.701	−6 23 33.90			
Corr----------			−0.081	−0.16			

30 Piscium

h m s 23 57 20.683 ° ′ ″ −6 30 51.39

1911							
Aug. 22	R.	EII	+0.103	+0.45	I	3.9	1
Sept. 13	R.	WII	+0.043	−0.05	I	3.9	1½
18	Fn.	WII	+0.062	+0.10	0	4.8	2½
25	Fn.	EII	+0.052	−0.50	0	---	2½

			s	″			
1914							
Oct. 28	An.	EI	-----	+0.01	I	4.9	3½
30	Hd.	EI	+0.054	−0.24	I	3.9	3
31	An.	EI	+0.077	+0.35	I	4.9	3
Nov. 4	Hd.	WI	+0.043	+0.03	0	---	3½
5	Fn.	WI	+0.086	−0.61	0	---	3
Mean------	1913.27		+0.065	−0.05			
	1913.44						
Corr----------			−0.081	−0.15			

Bradley 3201

			h m	s	° ′	″			
1912									
Sept. 30	R.	EII	23 57	53.639	+7 59	7.49	0	6.0	2½
Oct. 2	R.	EII		53.628		7.62	0	5.5	1½
7	R.	WII		53.595		7.72	0	5.5	2
14	Fn.	WII		53.636		7.45	0	6.2	2½
1914									
Aug. 30	Wy.	WI		53.630		7.79	0	6.0	3
31	Fn.	WI		53.632		7.94	0	6.0	2
Sept. 10	An.	EI		53.644		7.26	0	6.0	2
20	An.	EI		53.599		7.05	0	6.0	3
25	Wy.	EI		53.602		7.54	0	6.5	3½
Mean------	1913.84		23 57	53.623	+7 59	7.54			
Corr----------				−0.081		−0.20			

2 Ceti

			h m	s	° ′	″			
			23 59	7.816	−17 50	13.49			
1911									
Aug. 15	R.	EII		+0.055		+0.58	0	---	2½
16	Fn.	EII		+0.051		−0.85	0	4.8	3½
Sept. 1	Fn.	WII		+0.007		+0.20	0	---	3
2	R.	WII		+0.024		+0.48	0	5.5	2½
1914									
Oct. 22	Hd.	EI		+0.060		+0.81	0	6.0	3½
23	Fn.	EI		+0.046		+0.26	I	4.4	3
Nov. 6	Wy.	WI		+0.114		+0.03	I	4.4	3
7	Hd.	WI		+0.047		+0.07	0	---	3½
Mean------	1913.24			+0.050		+0.20			
Corr----------				−0.081		−0.09			

B. D.+13° 5201

			h m	s	° ′	″			
1912									
Aug. 10	R.	EII	23 59	18.828	+13 52	42.10	0	7.5	2
20	R.	WII		18.819		41.76	0	7.0	1½
24	R.	WII		18.819		42.22	0	7.5	1
Sept. 6	Hd.	EII		18.823		41.67	0	---	3
1914									
Aug. 8	Wy.	EI		18.822		41.53	0	6.5	3
17	Fn.	WI		18.841		41.81	0	---	2
20	Fn.	WI		18.844		41.71	0	7.5	2½
Sept. 19	Wy.	EI		18.775		41.99	0	7.0	2
Nov. 2	Fn.	WI		18.817		40.94	0	7.0	2
Mean------	1913.78		23 59	18.821	+13 52	41.75			
Corr----------				−0.081		−0.22			

CATALOGUE OF 215 STARS FOR 1910.0 FROM OBSERVATIONS IN THE YEARS 1909–1910

CATALOGUE OF 215 STARS FOR 1910.0

[From observations in 1909–1910]

The positions are for the epochs of column *Mean Date*

No.	Name	Magnitude	Right Ascension 1910.0	Annual Precession 1910.0	Secular Variation 1910.0	Annual Proper Motion	Declination 1910.0	Annual Precession 1910.0	Secular Variation 1910.0	Annual Proper Motion	Number of Observations	Mean Date
			h m s	s	s	s	° ′ ″	″	″	″		1900+
1	33 Piscium	4.7	0 0 43.698	+3.0721	−0.0014	−0.0013	− 6 12 39.00	+20.046	−0.010	+0.090	17 18	9.77 9.77
2	α Andromedæ	2.2	3 43.888	3.0844	+0.0185	+0.0106	+28 35 37.17	20.043	0.016	−0.161	26 28	9.82 9.83
3	β Cassiop	2.4	4 22	3.1143	+0.0524	+0.0677	+58 39 13.11	20.042	0.017	−0.181	-- 9	--- 9.87
4	γ Pegasi	2.9	8 35.924	3.0857	+0.0102	0.0000	+14 40 59.99	20.032	0.025	−0.013	29	9.83
5	ι Ceti	3.8	0 14 50.519	+3.0583	−0.0021	−0.0012	− 9 19 21.77	+20.004	−0.037	−0.032	29 36	9.83 9.84
6	44 Piscium	6.0	0 20 47.264	+3.0756	+0.0038	−0.0013	+ 1 26 29.34	+19.964	−0.049	−0.016	35 34	10.25 10.40
7	12 Ceti	6.0	25 26.697	3.0610	0.0010	+0.0005	− 4 27 16.05	19.922	0.058	−0.007	18 27	9.76 9.80
8	κ Cassiop	4.2	27 52.452	3.3831	0.0716	+0.0016	+62 26 6.92	19.898	0.068	+0.001	16 15	10.77 10.76
9	ζ Cassiop	3.7	31 56.948	3.3226	0.0498	+0.0023	+53 24 6.50	19.851	0.066	−0.009	18	9.76
10	ε Andromedæ	4.5	0 33 47	+3.1806	+0.0211	−0.0173	+28 49 23.50	+19.828	−0.077	−0.248	-- 9	--- 9.87
11	δ Andromedæ	3.5	0 34 30.630	+3.1900	+0.0223	+0.0107	+30 22 7.06	+19.819	−0.078	−0.086	14	9.98
12	α Cassiop	var.	35 23.526	3.3778	+0.0562	+0.0061	+56 2 38.38	19.807	0.084	−0.031	35	10.22 10.40
13	β Ceti	2.2	39 4.339	2.9967	−0.0053	+0.0160	−18 28 49.89	19.755	0.083	+0.039	29	9.86
14	21 Cassiop. s. P	5.6	39 41.210	3.9026	+0.1671	−0.0053	+74 29 46.80	19.746	0.106	−0.024	9 11	9.37 9.36
15	δ Piscium	4.6	0 44 0.643	+3.1043	+0.0080	+0.0055	+ 7 5 43.70	+19.678	−0.095	−0.044	32	9.86
16	43 H. Cephei	4.5	0 56 16.26	+7.469	+1.517	+0.078	+85 46 29.14	+19.445	−0.273	−0.005	48 47	10.16 10.32
17	43 H. Cephei s. P	4.5	56 16.30	7.469	1.517	+0.078	+85 46 28.93	19.445	0.273	−0.005	6 5	10.18 10.14
18	ε Piscium	4.4	0 58 16	3.1162	0.0089	−0.0054	+ 7 24 20.25	19.401	0.123	+0.028	-- 7	--- 9.86
19	η Ceti	3.6	1 4 3.721	3.0031	0.0002	+0.0141	−10 39 32.63	19.268	0.129	−0.133	15	10.76
20	44 H. Cephei	5.7	1 4 27	+5.0163	+0.3451	+0.0326	+79 11 42.71	+19.258	−0.211	+0.008	-- 9	--- 9.87
21	υ Piscium	4.7	1 14 30.926	+3.2881	+0.0220	+0.0017	+26 47 28.48	+18.996	−0.161	−0.012	34 42	10.24 10.34
22	θ Ceti	3.8	19 31.437	3.0034	0.0020	−0.0054	− 8 38 51.00	18.851	0.157	−0.213	37 36	10.26 10.42
23	38 Cassiop	6.0	24 30.896	4.3819	0.1459	+0.0278	+69 48 6.56	18.698	0.238	−0.066	19 18	9.76 9.76
24	α Ursæ Min	2.1	26 57.07	27.219	22.617	+0.144	+88 49 33.47	18.621	1.476	0.000	32 38	10.40 10.43
25	α Ursæ Min. s. P	2.1	1 26 56.26	+27.219	+22.617	+0.144	+88 49 33.38	+18.621	−1.476	0.000	26 28	9.41 9.35
26	40 Cassiop	5.5	1 31 18.120	+4.7250	+0.1879	−0.0012	+72 34 54.22	+18.476	−0.275	−0.006	19 18	9.76 9.76
27	ν Piscium	4.7	36 44.726	3.1207	0.0092	−0.0014	+ 5 1 57.17	18.286	0.194	+0.001	18 17	10.78 10.77
28	φ Persei	4.2	38 0	3.7386	0.0533	+0.0029	+50 14 8.85	18.241	0.234	−0.018	-- 7	--- 9.87
29	χ Ceti	4.8	45 9.791	2.9560	0.0022	−0.0108	−11 7 52.29	17.972	0.198	−0.079	16	10.77
30	β Arietis	2.7	1 49 39	+3.3010	+0.0184	+0.0068	+20 22 6.62	+17.795	−0.229	−0.111	-- 5	--- 9.89
31	50 Cassiop	4.1	1 55 43.597	+5.0606	+0.1909	−0.0083	+71 59 11.07	+17.544	−0.364	+0.023	16	10.77
32	50 Cassiop. s. P	4.1	1 55 43.610	5.0606	0.1909	−0.0083	+71 59 10.95	17.544	0.364	+0.023	12	9.36
33	ι Cassiop	4.6	2 21 38.026	4.8966	0.1326	−0.0006	+66 59 54.63	16.338	0.421	+0.014	16	10.77
34	36 H. Cassiop	5.3	29 27.084	5.6331	0.2069	−0.0050	+72 25 31.35	15.933	0.505	+0.020	15	10.76
35	π Ceti	4.4	2 39 50.306	+2.8547	+0.0034	−0.0005	−14 14 21.82	+15.365	−0.274	−0.014	15	10.76
36	τ Persei	4.1	2 47 52.081	+4.2327	+0.0584	+0.0005	+52 23 41.11	+14.905	−0.419	−0.006	16	10.77
37	47 H. Cephei	5.7	54 4.682	7.8353	0.4658	−0.0130	+79 3 50.96	14.536	0.793	+0.011	16	10.77
38	47 H. Cephei s. P	5.7	2 54 4.471	7.8353	0.4658	−0.0130	+79 3 50.75	14.536	0.793	+0.011	10	9.36
39	δ Arietis	4.5	3 6 28.754	3.4143	0.0170	+0.0107	+19 23 12.87	13.768	0.368	−0.006	18 17	10.78 10.77
40	ζ Eridani	4.9	3 11 27.619	+2.9128	+0.0055	−0.0003	− 9 9 12.47	+13.448	−0.321	+0.045	15	10.77
41	α Persei	1.9	3 17 53.419	+4.2636	+0.0482	+0.0028	+49 32 29.62	+13.026	−0.478	−0.028	17	10.77
42	f Tauri	4.3	25 54.082	3.3068	0.0129	+0.0012	+12 37 44.06	12.486	0.382	−0.004	17 16	10.78 10.77
43	δ Persei	3.1	36 30.648	4.2543	0.0413	+0.0032	+47 30 1.95	11.746	0.508	−0.033	17 16	10.77 10.77
44	η Tauri	3.0	42 7.857	3.5591	0.0176	+0.0014	+23 49 39.04	11.345	0.433	−0.048	16 14	10.78 10.77
45	ζ Persei	2.9	3 48 28.224	+3.7634	+0.0220	+0.0010	+31 37 1.46	+10.883	−0.465	−0.017	16	10.77
46	γ Eridani	3.2	3 53 49.730	+2.7935	+0.0046	+0.0046	−13 45 50.17	+10.487	−0.352	−0.112	17 16	10.78 10.77
47	o^1 Eridani	4.1	4 7 28.237	2.9263	+0.0058	+0.0006	− 7 4 17.65	+ 9.452	0.380	+0.081	17 16	10.78 10.77
48	212 G. Eridani	5.3	4 16 43.360	2.6143	+0.0037	+0.0031	−20 51 13.75	+ 8.731	0.347	−0.005	15	10.77
49	22 H. Camelop	4.7	6 8 55.867	6.6164	−0.0103	+0.0022	+69 21 10.07	− 0.781	0.964	−0.109	15	9.15
50	η Geminorum	var.	6 9 26.629	+3.6265	+0.0004	−0.0045	+22 32 1.22	− 0.826	−0.528	−0.017	29	9.90

12. Var. irreg., $2^m.2$–$2^m.8$.
33. Triple; binary, $4^m.8$, $7^m.0$, 2″; with comp., $8^m.2$, 8″ s. f.

50. Var., $3^m.3$–$4^m.2$, comp., $8^m.8$, 1″.2 n. pr.

[From observations in 1909–1910]

No.	Name	Magnitude	Right Ascension 1910.0	Annual Precession 1910.0	Secular Variation 1910.0	Annual Proper Motion	Declination 1910.0	Annual Precession 1910.0	Secular Variation 1910.0	Annual Proper Motion	Number of Observations	Mean Date
			h m s	s	s	s	° ′ ″	″	″	″		1900+
51	2 Lyncis	4.4	6 11 40.952	+ 5.2977	−0.0060	−0.0007	+59 2 39.70	− 1.022	−0.771	+0.021	15	9.17
52	ζ Canis Maj	3.1	16 51.421	2.3023	+0.0019	+0.0006	−30 1 22.04	1.473	0.334	+0.001	15	9.15
53	μ Geminorum	3.2	17 30.889	3.6261	−0.0006	+0.0044	+22 33 37.66	1.531	0.526	−0.113	25	9.91
54	10 Monocerotis	5.0	23 30.856	2.9631	+0.0008	−0.0002	− 4 42 21.34	2.053	0.429	+0.014	27	9.52 9.39
55	8 Lyncis	6.0	6 29 28.052	+ 5.5198	−0.0192	−0.0273	+61 33 40.91	− 2.570	−0.797	−0.281	27 26	9.55 9.41
56	γ Geminorum	1.9	6 32 30.744	+ 3.4638	−0.0017	+0.0031	+16 28 36.40	− 2.834	−0.499	−0.047	36 37	9.59 9.48
57	S Monocerotis	4.7	36 1.227	3.3048	−0.0012	+0.0002	+ 9 58 46.78	3.138	0.474	−0.007	15	9.15
58	ε Geminorum	3.2	38 23.674	3.6932	−0.0038	0.0000	+25 13 15.61	3.343	0.529	−0.020	34 35	9.63 9.48
59	α Canis Maj	−1.6	41 10.948	2.6807	+0.0009	−0.0367	−16 35 32.14	3.583	0.383	−1.206	15 16	9.99 9.99
60	43 Camelop	5.1	6 44 0.298	+ 6.4889	−0.0499	+0.0019	+68 59 38.72	− 3.826	−0.927	+0.009	20 21	9.34 9.25
61	43 Camelop. s. P	5.1	6 44 0.327	+ 6.4889	−0.0499	+0.0019	+68 59 39.30	− 3.826	−0.927	+0.009	7	9.74
62	θ Geminorum	3.6	46 51.425	3.9575	−0.0076	+0.0005	+34 4 13.74	4.070	0.563	−0.054	28 30	9.57 9.45
63	ε Canis Maj	1.6	55 5.296	2.3575	+0.0013	+0.0001	−28 50 57.00	4.772	0.332	−0.001	12 11	9.99 10.00
64	51 H. Cephei	5.3	58 39.83	29.433	−2.811	−0.048	+87 11 31.23	5.074	4.149	−0.037	16 21	9.23 9.33
65	51 H. Cephei s. P	5.3	6 58 39.18	+29.433	−2.811	−0.048	+87 11 31.23	− 5.074	−4.149	−0.037	13 23	9.76 10.30
66	δ Canis Maj	2.0	7 4 43.873	+ 2.4396	+0.0011	−0.0004	−26 14 59.18	− 5.587	−0.339	+0.002	29	9.59 9.46
67	51 Geminorum	5.3	8 12.168	3.4464	−0.0051	+0.0008	+16 18 44.55	5.878	0.478	−0.050	13	9.99
68	25 H. Camelop	5.1	12 11.998	12.8388	−0.5294	+0.0027	+82 35 14.22	6.212	1.777	−0.045	16 17	9.27 9.22
69	25 H. Camelop. s. P	5.1	12 11.749	12.8388	−0.5294	+0.0027	+82 35 14.40	6.212	1.777	−0.045	14	9.75
70	π Argûs	2.7	7 13 57.820	+ 2.1197	+0.0010	−0.0007	−36 56 7.26	− 6.358	−0.290	−0.002	12 11	9.99 10.00
71	66 Aurigæ	5.3	7 17 54.633	+ 4.1619	−0.0174	+0.0001	+40 50 47.63	− 6.684	−0.569	−0.024	12	9.99
72	ι Geminorum	3.9	20 8.243	3.7395	0.0104	−0.0086	+27 58 39.49	6.867	0.509	−0.090	14	9.15
73	β Canis Min	3.1	22 16.186	3.2589	0.0042	−0.0034	+ 8 28 16.85	7.042	0.442	−0.043	28 30	9.62 9.45
74	α^2 Geminorum	2.0	28 51.520	3.8482	0.0137	−0.014†	+32 5 12.78	7.579	0.516	−0.11†	30	9.58 9.44
75	25 Monocerotis	5.2	7 32 48.173	+ 2.9886	−0.0020	−0.0047	− 3 54 34.07	− 7.897	−0.397	+0.018	13	9.15
76	α Canis Min	0.5	7 34 35.484	+ 3.1894	−0.0042	−0.0467	+ 5 27 22.62	− 8.041	−0.422	−1.029	14 15	9.98 9.97
77	24 Lyncis	5.0	35 23.838	5.1005	−0.0503	−0.0039	+58 55 18.74	8.105	0.677	−0.061	13 14	9.15 9.15
78	β Geminorum	1.2	39 48.577	3.7234	−0.0130	−0.0471	+28 14 39.69	8.457	0.488	−0.057	14 15	9.98 9.97
79	ξ Argûs	3.5	45 30.498	2.5235	+0.0009	−0.0005	−24 37 59.90	8.906	0.326	+0.001	6 7	9.16 9.16
80	26 Lyncis	5.7	7 48 9.712	+ 4.3852	−0.0317	−0.0042	+47 47 55.39	− 9.114	−0.566	−0.008	11 12	9.14 9.14
81	ω Cancri	5.9	7 55 29.165	+ 3.6342	−0.0133	+0.0010	+25 38 23.34	− 9.679	−0.460	−0.001	10 12	9.15 9.15
82	χ Geminorum	5.0	7 57 59.493	3.6922	0.0150	−0.0015	+28 2 50.50	9.871	0.464	−0.052	11 12	9.15 9.15
83	27 Lyncis	4.9	8 1 41.541	4.5352	0.0419	−0.0058	+51 46 0.68	10.151	0.566	−0.008	11	9.15
84	Groomb. 1119	7.0	8 41	62.237	32.887	−0.033	+88 54 15.80	10.673	7.676	+0.007	-- 3	--- 10.82
85	Groomb. 1119 s. P	7.0	8 8 41	+62.237	−32.887	−0.033	+88 54 16.67	−10.673	−7.676	+0.007	-- 3	--- 10.82
86	20 Puppis	5.0	8 9 11.733	+ 2.7589	−0.0004	−0.0009	−15 30 59.61	−10.711	−0.335	−0.007	11 12	9.15 9.15
87	β Cancri	3.8	11 38.084	3.2595	0.0072	−0.0035	+ 9 27 48.68	10.891	0.394	−0.054	12	9.15
88	31 Lyncis	4.4	16 40.663	4.1210	0.0314	−0.0008	+43 28 39.34	11.259	0.492	−0.107	12	9.15
89	o Ursæ Maj	3.5	22 47.758	5.0320	0.0767	−0.0167	+61 1 11.41	11.697	0.591	−0.114	12	9.15
90	η Cancri	5.5	8 27 30.286	+ 3.4775	−0.0131	−0.0026	+20 44 51.10	−12.029	−0.400	−0.054	12	9.15
91	σ Hydræ	4.5	8 34 3.183	+ 3.1394	−0.0057	−0.0012	+ 3 39 28.49	−12.483	−0.353	−0.020	11	9.15
92	δ Cancri	4.2	39 34.264	3.4153	0.0125	−0.0012	+18 29 8.67	12.857	0.376	−0.239	11	9.15
93	ϵ Hydræ	3.5	42 0.617	3.1928	0.0071	−0.0127	+ 6 44 58.41	13.020	0.348	−0.054	11	9.15
94	σ^3 Cancri *mean*	5.6	48 45.308	3.6656	0.0215	+0.0030	+30 55 15.20	13.462	0.390	−0.033	12	9.15
95	ι Ursæ Maj	3.1	8 53 3.092	+ 4.1685	−0.0446	−0.0438	+48 23 44.70	−13.738	−0.437	−0.248	11	9.15
96	κ Ursæ Maj	3.7	8 57 29.124	+ 4.1155	−0.0434	−0.0030	+47 30 47.16	−14.018	−0.423	−0.066	10 11	9.14 9.15
97	σ^3 Ursæ Maj	4.9	9 2 29.217	5.3290	0.1328	−0.0009	+67 30 1.97	14.328	0.537	−0.070	11	9.15
98	83 Cancri	6.6	13 57.562	3.3618	0.0134	−0.0081	+18 5 14.72	15.011	0.318	−0.138	10	9.14
99	α Hydræ	2.2	23 9.865	2.9498	0.0014	−0.0011	− 8 16 5.34	15.533	0.265	+0.031	8 10	9.14 9.14
100	θ Ursæ Maj	3.3	9 26 50.750	+ 4.1358	−0.0558	−0.1026	+52 5 17.54	−15.734	−0.367	−0.548	10	9.14
101	10 Leonis Min	4.6	9 28 42.758	+ 3.6855	−0.0294	+0.0011	+36 47 51.46	−15.835	−0.323	−0.027	11 12	9.23 9.23
102	o Leonis	3.8	36 20.875	3.2150	0.0092	−0.0098	+10 18 8.14	16.235	0.268	−0.039	12	9.23
103	ϵ Leonis	3.1	40 44.650	3.4152	0.0179	−0.0030	+24 11 20.67	16.458	0.277	−0.024	12	9.23
104	υ Ursæ Maj	3.9	44 36.014	4.3344	0.0812	−0.0380	+59 27 45.40	16.648	0.345	−0.159	12	9.23
105	μ Leonis	4.1	9 47 38.837	+ 3.4352	−0.0196	−0.0163	+26 25 52.50	−16.795	−0.266	−0.063	12	9.23

57. Comp., $8^m.8$, 2″.9 s. pr.
59. The position of α Canis Maj. is for the center of its orbit.
63. Comp., 9^m, 7″.8 s. f.
74. Comp., $2^m.8$, 5″.7 s. pr. The values of the proper motion are given for the mean of the two components.
76. The position of α Canis Min. is for the center of its orbit.
93. Triple; binary, $3^m.5$, $6^m.8$, 0″.2, with comp., $7^m.8$, 3″.3.
94. Double, $5^m.9$, $6^m.4$, 1″.4.
97. Binary, $4^m.9$, 8^m, 1″.3.

[From observations in 1909–1910]

No.	Name	Magnitude	Right Ascension 1910.0	Annual Precession 1910.0	Secular Variation 1910.0	Annual Proper Motion	Declination 1910.0	Annual Precession 1910.0	Secular Variation 1910.0	Annual Proper Motion	Number of Observations	Mean Date
			h m s	s	s	s	° ′ ″	″	″	″		1900+
106	19 Leonis Min	5.2	9 52 10.611	+3.6980	−0.0358	−0.0102	+41 29 4.77	−17.008	−0.278	−0.037	12	9.23
107	π Leonis	4.9	9 55 27.486	3.1755	−0.0080	−0.0023	+ 8 28 35.25	17.158	0.232	−0.027	11 12	9.23 9.23
108	υ^2 Hydræ	4.7	10 0 44.493	2.9237	+0.0016	−0.0025	−12 37 40.36	17.393	0.204	+0.012	12	9.23
109	α Leonis	1.3	3 34.795	3.2155	−0.0100	−0.0169	+12 24 26.75	17.515	0.221	−0.003	12	9.23
110	λ Hydræ	3.8	10 6 11.990	+2.9383	+0.0015	−0.0137	−11 54 31.95	−17.625	−0.197	−0.093	12	9.23
111	32 Ursæ Maj	5.7	10 11 30.677	+4.4130	−0.1135	−0.0144	+65 33 27.78	−17.842	−0.286	−0.013	12	9.23
112	γ Leonis *pr*	2.6	15 0.701	3.2911	0.0147	+0.0215	+20 17 49.71	17.979	0.204	−0.153	12	9.23
113	30 H. Ursæ Maj	4.9	17 39.263	4.3701	0.1154	−0.0018	+66 1 18.77	18.080	0.267	−0.023	12	9.23
114	31 Leonis Min	4.4	22 40.925	3.4899	0.0294	−0.0099	+37 10 7.39	18.266	0.202	−0.110	12	9.23
115	36 Ursæ Maj	4.8	10 24 52.503	+3.8849	−0.0663	−0.0215	+56 26 32.62	−18.344	−0.221	−0.038	11 12	9.23 9.23
116	9 H. Draconis	5.0	10 27 28.322	+5.2062	−0.2703	−0.0079	+76 10 37.14	−18.434	−0.290	−0.010	12	9.23
117	42 Leonis Min	5.4	40 51.741	3.3460	0.0224	−0.0020	+31 9 23.84	18.863	0.157	−0.041	12	9.23
118	l Leonis	5.3	44 31.628	3.1567	0.0080	−0.0001	+11 1 18.37	18.969	0.141	−0.033	12	9.23
119	46 Leonis Min	3.9	48 16.854	3.3574	0.0254	+0.0074	+34 42 1.49	19.072	0.143	−0.290	11	9.23
120	Groomb. 1706	6.3	10 52 47.138	+4.9304	−0.3062	−0.0248	+78 15 9.36	−19.190	−0.200	−0.027	12	9.23
121	β Ursæ Maj	2.4	10 56 25.045	+3.6332	−0.0619	+0.0102	+56 51 54.24	−19.280	−0.137	+0.028	12	9.23
122	p^1 Leonis	5.7	11 2 18.777	3.0867	−0.0025	−0.0251	+ 2 26 39.12	19.414	0.104	−0.087	12	9.23
123	ψ Ursæ Maj	3.2	4 36.475	3.3922	−0.0363	−0.0055	+44 59 13.63	19.463	0.110	−0.038	12	9.23
124	δ Leonis	2.6	9 19.365	3.1851	−0.0130	+0.0106	+21 1 1.24	19.558	0.094	−0.145	34 35	9.52 9.43
125	φ Leonis	4.6	11 12 5.131	+3.0572	+0.0008	−0.0075	− 3 9 33.59	−19.609	−0.084	−0.044	12	9.23
126	δ Crateris	3.8	11 14 50.376	+3.0059	+0.0065	−0.0085	−14 17 28.82	−19.658	−0.078	+0.195	34	9.50 9.42
127	ι Leonis	4.0	19 13.961	3.1186	−0.0063	+0.0105	+11 1 30.42	19.730	0.072	−0.085	20 21	9.62 9.54
128	τ Leonis	5.2	23 18.484	3.0850	−0.0019	+0.0013	+ 3 21 7.27	19.790	0.063	−0.019	20 21	9.62 9.54
129	υ Leonis	4.5	32 20.396	3.0716	+0.0005	0.0000	− 0 19 36.26	19.900	0.045	+0.035	31 32	9.48 9.41
130	3 Draconis	5.5	11 37 27.697	+3.3853	−0.0849	−0.0077	+67 14 35.17	−19.949	−0.040	+0.036	12	9.23
131	ζ Crateris	4.9	11 40 11.937	+3.0354	+0.0101	+0.0024	−17 51 0.97	−19.971	−0.030	−0.039	19	9.63 9.53
132	χ Ursæ Maj	3.8	41 18.126	3.1946	−0.0353	−0.0136	+48 16 42.62	19.979	0.029	+0.016	12	9.23
133	β Leonis	2.2	44 28.168	3.0969	−0.0072	−0.0342	+15 4 30.80	20.000	0.022	−0.123	32	9.49 9.41
134	γ Ursæ Maj	2.5	49 6.067	3.1606	−0.0425	+0.0107	+54 11 43.05	20.023	−0.013	+0.003	12	9.23
135	π Virginis	4.6	11 56 15.637	+3.0752	−0.0021	−0.0003	+ 7 6 58.52	−20.043	+0.001	−0.033	19 20	9.59 9.46
136	o Virginis	4.2	12 0 37.457	+3.0719	−0.0030	−0.0147	+ 9 13 58.48	−20.046	+0.010	+0.038	30 31	9.50 9.42
137	ϵ Corvi	3.2	5 29.495	3.0855	+0.0144	−0.0047	−22 7 9.20	20.040	0.019	+0.007	19	9.56 9.43
138	4 H. Draconis	5.1	7 59.650	2.8510	−0.1190	+0.0032	+78 6 58.72	20.034	0.023	+0.018	11	9.36
139	4 H. Draconis s. p	5.1	7 59.607	2.8510	−0.1190	+0.0032	+78 6 58.78	20.034	0.023	+0.018	15	10.77
140	γ Corvi	2.8	12 11 10.524	+3.0925	+0.0117	−0.0112	−17 2 31.87	−20.022	+0.030	+0.011	31	9.50 9.42
141	Bradley 1672 s. p	6.3	12 14 25.81	+0.398	+0.707	−0.072	+88 11 55.55	−20.006	+0.012	+0.058	15	10.77
142	η Virginis	4.0	15 18.001	3.0728	+0.0028	−0.0041	− 0 9 59.97	20.001	0.038	−0.025	31	9.50 9.44
143	12 Comæ	4.8	17 58.909	3.0206	−0.0113	−0.0006	+26 20 44.15	19.984	0.043	−0.014	10 11	9.23 9.23
144	6 Canum Ven	5.2	21 25.023	2.9697	−0.0198	−0.0066	+39 31 4.57	19.958	0.049	−0.039	11	9.23
145	15 Comæ	4.6	12 22 27.162	+3.0007	−0.0124	−0.0066	+28 46 7.10	−19.950	+0.051	−0.087	11	9.36
146	δ Corvi	3.1	12 25 12.317	+3.1146	+0.0120	−0.0144	−16 0 51.84	−19.925	+0.058	−0.143	32	9.50 9.42
147	κ Draconis	3.9	29 38.829	2.5914	−0.0530	−0.0119	+70 17 3.29	19.878	0.057	+0.006	19 20	9.56 9.46
148	κ Draconis s. p	3.9	29 38.781	2.5914	−0.0530	−0.0119	+70 17 3.43	19.878	0.057	+0.006	12 13	9.98 9.98
149	β Corvi	2.8	29 39.414	3.1454	+0.0166	0.0000	−22 53 56.52	19.878	0.068	−0.061	12	9.36
150	f Virginis	5.9	12 32 9.124	+3.0900	+0.0064	−0.0020	− 5 20 9.20	−19.849	+0.071	−0.027	11	9.36
151	γ Virginis *mean*	2.9	12 37 5.918	+3.0761	+0.0044	−0.0376	− 0 57 21.41	−19.784	+0.081	+0.004	11 12	9.37 9.36
152	76 Ursæ Maj	5.9	37 38.219	2.6399	−0.0378	−0.0038	+63 12 25.18	19.776	0.071	−0.019	11	9.23
153	35 Virginis	6.7	43 16.366	3.0547	+0.0022	−0.0003	+ 4 3 50.37	19.690	0.092	−0.012	11 12	9.37 9.36
154	31 Comæ	5.1	47 18.903	2.9267	−0.0096	−0.0012	+28 1 49.32	19.620	0.096	−0.026	10 12	9.37 9.36
155	32 H. Camelop. *seq*	5.3	12 48 27.448	+0.4473	+0.1992	−0.018	+83 54 -----	−19.600	+0.022	+0.015	7 --	10.01 ----
156	32 H. Camel. *seq.* s. p	5.3	12 48 27.241	+0.4473	+0.1992	−0.018	+83 54 7.71	−19.600	+0.022	+0.015	28 37	10.40 10.41
157	δ Virginis	3.7	51 4.139	3.0525	+0.0027	−0.0317	+ 3 53 11.30	19.550	0.107	−0.064	29 30	9.44 9.38
158	ϵ Virginis	3.0	12 57 41.750	3.0051	−0.0006	−0.0185	+11 26 34.01	19.414	0.118	+0.017	21 23	9.29 9.29
159	γ Hydræ	3.3	13 14 1.521	3.2499	+0.0189	+0.0048	−22 41 48.91	19.009	0.158	−0.051	9 12	9.37 9.36
160	η Ursæ Maj	1.9	13 43 59.693	+2.3802	−0.0102	−0.0121	+49 45 44.20	−18.017	+0.160	−0.021	11	9.37

112. Comp., $3^m.8$, 3″.7 s. f. 127. Comp., $6^m.8$, 2″.6 n. f. 151. Binary, $3^m.7$, $3^m.7$, 6″.2.

[From observations in 1909–1910]

No.	Name	Magnitude	Right Ascension 1910.0	Annual Precession 1910.0	Secular Variation 1910.0	Annual Proper Motion	Declination 1910.0	Annual Precession 1910.0	Secular Variation 1910.0	Annual Proper Motion	Number of Observations	Mean Date
			h m s	s	s	s	° ′ ″	″	″	″		1900+
161	η Boötis	2.8	13 50 23.888	+ 2.8612	−0.0005	−0.0045	+18 50 54.89	−17.765	+0.201	−0.367	11 12	9.37 9.36
162	α Draconis	3.6	14 1 57.091	+ 1.6312	+0.0048	−0.0081	+64 48 21.04	17.274	+0.128	+0.015	12	9.36
163	d Boötis	4.8	6 17.607	+ 2.7385	−0.0017	−0.0017	+25 31 3.71	17.079	+0.216	−0.072	12	9.36
164	4 Ursæ Min	5.0	9 11.016	− 0.2782	+0.1490	−0.0089	+77 58 13.55	16.945	−0.014	+0.026	12	9.36
165	α Boötis	0.2	14 11 33.388	+ 2.8134	+0.0005	−0.0780	+19 39 3.22	−16.833	+0.230	−2.004	12	9.36 9.37
166	λ Virginis	4.6	14 14 14.217	+ 3.2425	+0.0141	−0.0015	−12 57 26.03	−16.705	+0.268	+0.023	12	9.36
167	θ Boötis	4.1	22 7.973	+ 2.0688	−0.0025	−0.0259	+52 15 59.82	16.313	+0.182	−0.406	12	9.36
168	5 Ursæ Min	4.4	27 42.082	− 0.1708	+0.1166	+0.0034	+76 5 45.92	16.025	−0.008	+0.017	12	9.36
169	σ Boötis	4.5	30 45.640	+ 2.5982	−0.0011	+0.0149	+30 8 8.46	15.863	+0.238	+0.120	12	9.36
170	33 Boötis	5.4	14 35 29.238	+ 2.2399	−0.0020	−0.0069	+44 47 33.82	−15.607	+0.212	−0.029	11 12	9.36 9.36
171	μ Virginis	4.0	14 38 18.879	+ 3.1510	+0.0104	+0.0071	− 5 16 2.53	−15.450	+0.299	−0.322	10 11	9.36 9.36
172	ϵ Boötis	2.7	14 41 3.321	+ 2.6238	+0.0001	−0.0036	+27 27 11.58	−15.297	+0.254	+0.008	12	9.36 9.37
173	δ Ursæ Min	4.4	18 1 17	−19.515	−0.026	+0.020	+86 36 50.15	+ 0.113	−2.845	+0.048	-- 2	---- 10.69
174	δ Ursæ Min. S. P	4.4	1 17.82	−19.515	−0.026	+0.020	+86 36 50.67	+ 0.113	−2.845	+0.048	25 30	9.42 9.59
175	36 Draconis S. P	5.0	18 13 22.676	+ 0.2921	−0.0007	+0.0532	+64 21 59.81	+ 1.169	+0.042	+0.030	10	9.77
176	χ Draconis S. P	3.7	18 22 40.738	− 1.1956	−0.0144	+0.1169	+72 41 38.53	+ 1.981	−0.174	−0.367	9	9.77
177	1 Aquilæ	4.1	30 18.496	+ 3.2660	−0.0006	−0.0015	− 8 18 27.46	2.643	+0.471	−0.317	1 2	9.73 9.74
178	α Lyræ	0.1	33 53.399	+ 2.0136	+0.0015	+0.0174	+38 41 57.83	2.954	+0.289	+0.279	3 4	9.74 9.74
179	φ Sagittarii	3.3	40 2.021	+ 3.7455	−0.0045	+0.0036	−27 5 2.07	3.484	+0.536	−0.003	4	9.74
180	50 Draconis	5.4	18 49 16.992	− 1.9142	−0.0534	−0.0035	+75 19 42.14	+ 4.278	−0.275	+0.077	9 10	9.75 9.75
181	50 Draconis S. P	5.4	18 49 16.879	− 1.9142	−0.0534	−0.0035	+75 19 41.72	+ 4.278	−0.275	+0.077	14 17	9.38 9.28
182	ι Lyræ	5.1	19 4 5.320	+ 2.1407	+0.0012	−0.0006	+35 57 31.26	5.533	+0.298	−0.006	11	9.76
183	τ Draconis	4.6	17 17.385	− 1.1015	−0.0566	−0.0319	+73 11 19.50	6.633	−0.154	+0.110	13	9.75
184	τ Draconis S. P	4.6	17 17.460	− 1.1015	−0.0566	−0.0319	+73 11 19.35	6.633	−0.154	+0.110	2	9.80
185	δ Aquilæ	3.4	19 20 57.591	+ 3.0082	−0.0018	+0.0169	+ 2 56 4.71	+ 6.935	+0.408	+0.077	13	9.75
186	β Cygni	3.2	19 27 5.438	+ 2.4190	+0.0010	−0.0002	+27 46 12.57	+ 7.436	+0.324	−0.009	13	9.75
187	h Sagittarii	4.7	31 13.892	3.6491	−0.0105	+0.0053	−25 4 57.93	7.771	+0.487	−0.025	13	9.75
188	β Sagittæ	4.4	37 0.338	2.6938	0.0000	+0.0001	+17 16 1.21	8.234	+0.355	−0.038	13 12	9.75 9.75
189	γ Aquilæ	2.8	41 58.815	+ 2.8513	−0.0011	+0.0009	+10 23 36.33	8.629	+0.372	−0.004	14	9.75
190	ϵ Draconis	4.0	19 48 28.927	− 0.2023	−0.0444	+0.0158	+70 2 19.94	+ 9.138	−0.030	+0.031	14	9.75
191	Groomb. 3241 S. P	6.4	20 30 24.162	− 0.2305	−0.0684	−0.0002	+72 13 36.60	+12.231	−0.032	−0.025	10 11	9.16 9.16
192	Bradley 2777 S. P	5.9	21 7 18.710	− 1.1427	−0.1779	+0.0083	+77 45 42.10	14.620	−0.120	+0.033	9	9.15
193	226 B. Cephei S. P	5.7	22 30 41.639	+ 1.0717	−0.0348	−0.0043	+75 45 45.17	18.543	+0.051	−0.001	12	9.23
194	α Pegasi	2.6	23 0 16.562	+ 2.9821	+0.0058	+0.0040	+14 43 14.87	19.369	+0.104	−0.045	26 27	9.82 9.82
195	c^2 Aquarii	3.8	23 4 38.976	+ 3.1995	−0.0137	+0.0033	−21 39 39.67	+19.464	+0.103	+0.037	27	9.82
196	5 H^1. Cassiop	5.6	23 8 56.596	+ 2.6236	+0.0306	+0.2526	+56 40 16.88	+19.551	+0.076	+0.296	8	9.95
197	φ Aquarii	4.4	9 39.678	3.1059	−0.0043	+0.0018	− 6 32 3.17	19.564	+0.090	−0.191	20	9.77
198	γ Piscium	3.8	12 29.939	3.0591	+0.0007	+0.0502	+ 2 47 25.55	19.617	+0.083	+0.019	27 29	9.82 9.82
199	τ Pegasi	4.6	16 10.787	2.9634	+0.0112	+0.0020	+23 14 51.46	19.681	+0.074	−0.021	20	9.77
200	b^1 Aquarii	4.2	23 18 14.693	+ 3.1635	−0.0122	−0.0087	−20 35 31.04	+19.714	+0.075	−0.093	9	9.95
201	υ Pegasi	4.6	23 20 53.069	+ 2.9766	+0.0114	+0.0137	+22 54 31.08	+19.755	+0.065	+0.028	18 19	9.77 9.77
202	κ Piscium	4.9	22 19.070	3.0696	+0.0002	+0.0057	+ 0 45 45.97	19.776	+0.065	−0.090	9	9.95
203	70 Pegasi	4.7	24 36.069	+ 3.0278	+0.0061	+0.0038	+12 15 50.64	19.807	+0.060	+0.027	19 20	9.77 9.77
204	39 H. Cephei	5.6	27 47.13	− 0.290	−0.629	+0.097	+86 48 39.94	19.848	−0.014	+0.018	9	9.95
205	39 H. Cephei S. P	5.6	23 27 47.01	− 0.290	−0.629	+0.097	+86 48 39.60	+19.848	−0.014	+0.018	19 20	9.63 9.55
206	β Sculptoris	4.5	23 28 8.886	+ 3.2188	−0.0256	+0.0077	−38 18 57.32	+19.853	+0.057	+0.011	16 15	9.76 9.77
207	ι Piscium	4.3	35 19.198	3.0596	+0.0031	+0.0248	+ 5 8 18.84	19.930	+0.040	−0.439	29	9.82
208	γ Cephei S. P	3.4	35 38.710	2.4522	+0.0782	−0.0180	+77 7 48.06	19.933	+0.030	+0.158	11	9.36 9.37
209	i^1 Aquarii	5.3	39 32.058	3.1130	−0.0097	+0.0020	−18 46 35.09	19.966	+0.032	0.000	28 37	9.83 9.84
210	δ Sculptoris	4.6	23 44 14.395	+ 3.1226	−0.0158	+0.0080	−28 37 40.25	+19.998	+0.023	−0.101	26 27	9.82 9.82
211	ρ Cassiop	4.8	23 49 52.843	+ 2.9817	+0.0445	−0.0006	+56 59 55.46	+20.026	+0.011	+0.005	15	10.77
212	Groomb. 4163	6.6	50 26.396	2.8793	+0.0918	−0.0028	+73 54 34.37	20.029	+0.009	−0.007	9 19	9.96 9.91
213	Groomb. 4163 S. P	6.6	50 26.355	2.8793	+0.0918	−0.0028	+73 54 34.17	20.029	+0.009	−0.007	20	9.65 9.56
214	ω Piscium	4.0	54 41.285	3.0691	+0.0049	+0.0101	+ 6 21 54.45	20.041	+0.002	−0.109	28	9.83
215	30 Piscium	4.7	23 57 20.640	+ 3.0743	−0.0017	+0.0027	− 6 30 51.11	+20.045	−0.003	−0.034	17	9.77

172. Comp., $5^m.1$, 2″.8 n. pr.

190. Comp., $7^m.6$, 3″.1 n.

CATALOGUE OF 2499 STARS FOR 1910.0 FROM OBSERVATIONS IN THE YEARS 1911-1918

CATALOGUE OF 2499 STARS FOR 1910.0

[From observations in 1911–1918]

The positions are for the epochs of column *Mean Date*

No.	Name	Magnitude	Right Ascension 1910.0	Annual Precession 1910.0	Secular Variation 1910.0	Annual Proper Motion	Declination 1910.0	Annual Precession 1910.0	Secular Variation 1910.0	Annual Proper Motion	Number of Observations	Mean Date
			h m s	s	s	s	° ′ ″	″	″	″		1910+
1	B. D.+26°4744	6.6	0 0 23.221	+3.0737	+0.0172	------	+27 10 25.83	+20.046	−0.009	-----	8	3.27
2	Groomb. 4223	6.5	0 31.813	3.0756	+0.0315	------	+44 43 42.37	20.046	0.010	-----	8	3.33
3	33 Piscium	4.7	0 43.693	3.0721	−0.0014	−0.0013	− 6 12 39.43	20.046	0.010	+0.090	8	3.64
4	B. D.+39°5219	6.7	1 25.921	3.0795	+0.0270	------	+39 55 2.87	20.046	0.011	-----	8	3.37
5	Rad. 90, 1	6.1	0 2 13.833	+3.0668	−0.0110	------	−23 36 27.20	+20.045	−0.013	-----	9	3.88
6	Bradley 3213	6.3	0 3 7.422	+3.0715	+0.0004	+0.0018	− 3 2 59.57	+20.044	−0.015	+0.004	9	3.47
7	α Andromedæ	2.2	3 43.945	3.0844	0.0185	+0.0106	+28 35 35.79	20.043	0.016	−0.161	138 108	4.74 4.82
8	β Cassiop	2.4	4 22.297	3.1143	0.0524	+0.0677	+58 39 11.40	20.042	0.017	−0.181	11	4.01
9	β Cassiop. s. p	2.4	4 22	3.1143	0.0524	+0.0677	+58 39 11.12	20.042	0.017	−0.181	-- 21	--- 3.50
10*	B. D.+16° 3	7.2	0 4 41.611	+3.0809	+0.0113	−0.0018	+17 2 10.17	+20.042	−0.018	−0.139	9	3.82
11	22 Andromedæ	5.1	0 5 38.208	+3.1061	+0.0333	+0.0004	+45 34 17.19	+20.040	−0.020	−0.001	17 10	4.89 3.78
12	Oeltzen 46	6.5	5 46.290	3.1237	+0.0491	------	+56 39 52.95	20.040	0.020	-----	8	3.74
13	Weisse$_1$ 0 46	5.9	6 6.295	3.0642	−0.0047	------	−13 4 47.76	20.039	0.020	-----	8	3.74
14	κ^2 Sculptoris	5.6	7 0.313	3.0505	−0.0136	+0.0013	−28 18 3.87	20.037	0.022	+0.017	8	3.34
15	Groomb. 7	7.2	0 7 2.504	+3.1632	+0.0720	------	+65 37 32.52	+20.036	−0.023	-----	8	3.35
16	θ Sculptoris	5.2	0 7 9.656	+3.0426	−0.0187	+0.0129	−35 38 12.50	+20.036	−0.023	+0.120	8	3.77
17	γ Pegasi	2.9	8 35.932	3.0857	+0.0102	0.0000	+14 40 59.49	20.032	0.025	−0.013	113 99	4.68 4.70
18	318 B. Cephei	6.2	11 6.575	3.3412	+0.1478	+0.0068	+76 27 2.48	20.022	0.032	−0.001	8	3.75
19	318 B. Cephei s. p	6.2	11 6.499	3.3412	+0.1478	+0.0068	+76 27 2.59	20.022	0.032	−0.001	6 8	3.27 3.77
20	B. D.+3° 26	7.0	0 11 19.990	+3.0768	+0.0044	+0.0015	+ 3 45 4.18	+20.021	−0.031	−0.018	9	3.76
21	Weisse$_2$ 0 253	7.2	0 12 14.808	+3.1025	+0.0153	------	+22 45 23.02	+20.017	−0.033	-----	8	3.70
22	θ Andromedæ	4.4	12 23.044	3.1293	0.0268	−0.0041	+38 10 54.98	20.017	0.033	−0.020	16 8	5.26 3.30
23	Weisse$_1$ 0 176	6.6	13 17.846	3.0894	0.0092	------	+12 16 19.04	20.012	0.035	-----	8	3.35
24	σ Andromedæ	4.5	13 37.233	3.1308	0.0253	−0.0056	+36 17 10.96	20.011	0.036	−0.044	22 9	5.06 3.81
25	Piazzi 0 38	5.8	0 13 56.018	+3.1213	+0.0211	+0.0067	+31 1 2.93	+20.009	−0.036	−0.003	8	3.33
26	Bradley 13	6.0	0 13 57.148	+3.1491	+0.0321	+0.0026	+43 17 28.87	+20.009	−0.036	−0.004	8	3.31
27*	Weisse$_1$ 0 185	6.5	14 4.011	3.0602	−0.0018	+0.0264	− 8 32 58.14	20.008	0.036	−0.131	8	3.35
28	ι Ceti	3.8	14 50.528	3.0583	−0.0021	−0.0012	− 9 19 22.37	20.004	0.037	−0.032	79 74	4.42 4.43
29	Lal. 347	6.9	15 29.081	3.0429	−0.0069	------	−18 12 0.01	20.000	0.039	-----	10 9	3.92 3.83
30	ρ Andromedæ	5.2	0 16 22.570	+3.1457	+0.0267	+0.0054	+37 28 ----	+19.995	−0.041	−0.044	12 --	7.45 ---
31	ι Sculptoris	5.4	0 16 59.966	+3.0165	−0.0134	+0.0033	−29 28 45.16	+19.991	−0.041	−0.069	8	3.32
32	Bradley 23	5.7	20 13.840	3.2264	+0.0457	+0.0035	+52 32 53.74	19.968	0.050	−0.003	8	3.24
33	44 Piscium	6.0	20 47.264	3.0756	+0.0038	−0.0013	+ 1 26 28.83	19.964	0.049	−0.016	8	3.25
34	α Phœnicis	2.4	21 50	2.9548	−0.0223	+0.0175	−42 47 43.15	19.955	0.050	−0.401	-- 73	--- 5.07
35	Lal. 611	7.5	0 23 26.511	+3.0431	−0.0031	------	−12 9 23.36	+19.941	−0.054	-----	8 9	3.31 3.49
36	η Sculptoris	5.0	0 23 27.996	+2.9821	−0.0153	−0.0022	−33 30 14.71	+19.941	−0.053	−0.048	8	3.30
37	Bradley 33	6.5	23 31.968	3.1117	+0.0119	+0.0006	+15 56 50.75	19.940	0.055	−0.016	8 9	3.34 3.52
38	Weisse$_1$ 0 340	6.0	23 40.756	3.0961	+0.0083	+0.0041	+ 9 41 48.61	19.939	0.055	−0.174	8	3.31
39	Lal. 626	6.4	23 50.299	3.0197	−0.0077	------	−20 49 49.77	19.938	0.056	-----	9	3.55
40	B. D.+63° 53	7.2	0 25 8.977	+3.3760	+0.0768	------	+64 15 5.91	+19.925	−0.062	-----	8	3.76
41	Bradley 35	5.3	0 25 22.160	+3.1552	+0.0208	+0.0030	+29 15 19.64	+19.923	−0.059	−0.053	8	3.28
42	12 Ceti	6.0	25 26.697	3.0610	+0.0010	+0.0005	− 4 27 16.60	19.922	0.058	−0.007	8	3.76
43	49 G. Ceti	5.2	25 52.737	3.0046	−0.0095	−0.0026	−24 17 8.05	19.918	0.058	+0.016	8	3.37
44	κ Cassiop	4.2	27 52.360	3.3831	+0.0716	+0.0016	+62 26 6.73	19.898	0.068	+0.001	8	3.31
45	Weisse$_2$ 0 645	7.0	0 27 54.000	+3.2009	+0.0288	------	+38 20 51.33	+19.898	−0.065	-----	9 8	3.57 3.41
46	Lac. 121	6.9	0 28 10.368	+2.9931	−0.0102	------	−25 51 18.90	+19.895	−0.062	-----	8	3.28
47	77 G. Sculptoris	5.6	29 13.989	2.9741	−0.0125	−0.0023	−30 3 15.43	19.883	0.064	−0.028	9	3.51
48	13 Ceti	5.2	30 36.955	3.0598	+0.0015	+0.0272	− 4 5 17.69	19.867	0.068	−0.018	8	3.27
49	ζ Cassiop	3.7	31 56.924	3.3226	+0.0498	+0.0023	+53 24 6.21	19.851	0.066	−0.009	9	3.34
50	π Andromedæ	4.4	0 32 4.150	+3.1946	+0.0245	+0.0017	+33 13 26.13	+19.850	−0.073	−0.009	25 10	5.30 3.61

18. Double, 7ᵐ.0, 7ᵐ.5, 0″.8. 48. Double, 5ᵐ.5, 6ᵐ.2, 0″.3.

[From observations in 1911–1918]

No.	Name	Magnitude	Right Ascension 1910.0	Annual Precession 1910.0	Secular Variation 1910.0	Annual Proper Motion	Declination 1910.0	Annual Precession 1910.0	Secular Variation 1910.0	Annual Proper Motion	Number of Observations	Mean Date
			h m s	s	s	s	° ′ ″	″	″	″		1910+
51	Bradley 54	5.9	0 32 5.810	+3.1216	+0.0117	−0.0001	+14 44 11.41	+19.850	−0.072	−0.028	9	3.35
52	82 B. Ceti	5.7	32 43.735	2.9828	−0.0094	+0.1022	−25 15 44.65	19.842	0.074	−0.009	8	3.75
53	Piazzi 0 131	6.6	32 52.370	3.0813	+0.0050	+0.0069	+ 2 38 29.41	19.840	0.073	−0.063	8	3.34
54	319 B. Cephei	6.4	32 55.717	4.4336	+0.3993	−0.0526	+81 59 49.62	19.839	0.101	+0.091	8	3.38
55	319 B. Cephei s. P	6.4	0 32 55.715	+4.4336	+0.3993	−0.0526	+81 59 49.29	+19.839	−0.101	+0.091	8	3.79
56	ϵ Andromedæ	4.5	0 33 47.638	+3.1806	+0.0211	−0.0173	+28 49 22.63	+19.828	−0.077	−0.248	14 9	4.62 3.57
57	Groomb. 113	5.7	34 11.011	3.2999	0.0425	+0.0014	+48 51 36.00	19.823	0.080	−0.013	10	3.80
58	δ Andromedæ	3.5	34 30.713	3.1900	0.0223	+0.0107	+30 22 6.27	19.819	0.078	−0.086	25 11	5.20 3.99
59	Bradley 58	6.1	34 40.535	3.1489	0.0155	−0.0330	+20 45 52.69	19.817	0.078	−0.375	8	3.78
60	α Cassiop	var.	0 35 23.529	+3.3778	+0.0562	+0.0061	+56 2 38.19	+19.807	−0.084	−0.031	17	5.60
61	α Cassiop. s. P	var.	0 35 23	+3.3778	+0.0562	+0.0061	+56 2 39.24	+19.807	−0.084	−0.031	-- 19	--- 5.14
62	Piazzi 0 144	6.5	35 57.690	3.0086	−0.0047	------	−17 0 36.78	19.800	0.077	-----	9	3.92
63	Piazzi 0 146	6.1	36 7.408	3.0547	+0.0014	−0.0014	− 4 50 44.98	19.797	0.078	−0.010	8 9	3.31 3.49
64	B. D.+38° 90	5.4	36 14	3.2427	+0.0303	−0.0005	+38 57 52.69	19.796	0.083	−0.004	-- 4	--- 6.86
65	Weisse 2 0 951	7.0	0 39 1.496	+3.2186	+0.0247	------	+32 49 2.71	+19.756	−0.088	-----	9 7	3.44 3.46
66	β Ceti	2.2	0 39 4.422	+2.9967	−0.0053	+0.0160	−18 28 49.86	+19.755	−0.083	+0.039	89 65	4.29 4.54
67	21 Cassiop	5.6	39 41.164	3.9026	+0.1671	−0.0053	+74 29 46.19	19.746	0.106	−0.024	10 9	3.88 3.79
68	21 Cassiop. s. P	5.6	39 41.096	3.9026	+0.1671	−0.0053	+74 29 46.80	19.746	0.106	−0.024	7 8	3.60 3.81
69	o Cassiop	4.7	39 42.217	3.3265	+0.0417	+0.0022	+47 47 31.06	19.746	0.092	−0.005	8	3.73
70	Lal. 1210	6.5	0 41 27.093	+3.4739	+0.0658	------	+59 4 57.73	+19.719	−0.100	-----	11	3.47
71	ζ Andromedæ	4.3	0 42 33.838	+3.1813	+0.0180	−0.0074	+23 46 39.43	+19.701	−0.094	−0.080	8 9	3.38 3.55
72	Bradley 80	6.2	42 44.207	3.0997	+0.0075	+0.0009	+ 6 14 58.91	19.698	0.092	−0.010	8	3.33
73	Lal. 1275	7.1	42 56.156	3.1929	+0.0195	------	+25 47 59.79	19.695	0.095	-----	9	3.96
74	Lac. 218	5.4	43 33.874	2.9694	−0.0069	+0.0009	−22 12 48.73	19.685	0.090	+0.004	8	3.37
75	η Cassiop	3.6	0 43 39.508	+3.4672	+0.0616	+0.139†	+57 20 16.95	+19.683	−0.104	−0.52†	8	3.41
76	δ Piscium	4.6	0 44 0.685	+3.1043	+0.0080	+0.0055	+ 7 5 42.86	+19.678	−0.095	−0.044	8	3.86
77	Bradley 86	5.2	44 14.763	3.1483	+0.0133	−0.0014	+16 27 16.78	19.674	0.096	−0.203	8	3.39
78	ν Andromedæ	4.4	44 50.691	3.2951	+0.0330	+0.0017	+40 35 ----	19.663	0.102	−0.021	10 --	6.32 ---
79	Piazzi 0 198	5.8	44 54.368	3.0074	−0.0026	+0.0071	−14 2 58.19	19.662	0.094	−0.087	8	3.76
80	Piazzi 0 196	6.1	0 45 16.389	+3.3304	+0.0378	+0.0065	+44 30 42.63	+19.656	−0.104	−0.003	8	3.85
81	Weisse 1 0 732	6.8	0 45 18.347	+3.0693	+0.0043	+0.0064	− 0 42 51.72	+19.656	−0.096	−0.013	8	3.35
82	Bradley 89	5.2	45 37.065	3.0205	−0.0012	−0.0160	−11 7 44.95	19.650	0.096	−0.225	8 9	3.36 3.53
83	20 Ceti	4.9	48 24.445	3.0645	+0.0037	−0.0004	− 1 37 58.71	19.601	0.102	−0.016	9	3.93
84*	Weisse 2 0 1172	6.1	48 31.333	3.2836	+0.0294	0.000	+36 55 49.67	19.598	0.109	−0.07	8	3.33
85	γ Cassiop	2.2	0 51 15.972	+3.5908	+0.0725	+0.0040	+60 13 46.57	+19.547	−0.124	−0.002	10 8	3.20 3.33
86	γ Cassiop. s. P	2.2	0 51 16	+3.5908	+0.0725	+0.0040	+60 13 46.75	+19.547	−0.124	−0.002	-- 12	--- 5.05
87	Weisse 1 0 839	6.8	51 25.660	3.1437	+0.0119	−0.0014	+13 27 52.42	19.543	0.110	−0.036	8	3.30
88	Lac. 256	6.2	51 33.671	2.9122	−0.0093	------	−28 15 47.41	19.541	0.103	----	9	3.55
89	μ Andromedæ	3.9	51 45.195	3.3064	+0.0308	+0.0128	+38 0 41.06	19.537	0.116	+0.027	18 12	4.55 3.70
90	Weisse 1 0 870	7.3	0 53 2.151	+3.0795	+0.0054	+0.0002	+ 1 17 55.06	+19.512	−0.111	+0.037	8	3.83
91	B. D.+38° 148	6.6	0 53 9	+3.3212	+0.0320	------	+38 59 22.62	+19.509	−0.120	-----	-- 5	--- 6.90
92	B. D.+20° 131	6.4	53 31.062	3.1907	+0.0167	------	+20 55 5.34	19.502	0.116	-----	8	3.37
93	Weisse 1 0 890	6.7	54 12.213	3.0376	+0.0017	------	− 6 22 1.18	19.488	0.112	-----	8 9	3.79 4.01
94	α Sculptoris	4.4	54 16.201	2.8927	−0.0098	+0.0006	−29 50 37.69	19.487	0.107	+0.001	9	3.33
95	B. D.+68° 64	6.7	0 55 34.013	+3.9029	+0.1201	------	+68 52 25.58	+19.460	−0.145	-----	8	3.30
96	43 H. Cephei	4.5	0 56 16.66	+7.469	+1.517	+0.078	+85 46 28.90	+19.445	−0.273	−0.005	36 39	5.41 5.25
97	43 H. Cephei s. P	4.5	56 16.41	7.469	+1.517	+0.078	+85 46 28.92	19.445	0.273	−0.005	44 46	4.44 4.47
98*	Lal. 1787	6.6	57 10.677	2.9732	−0.0031	+0.0031	−16 44 52.71	19.425	0.115	−0.101	9	3.52
99	σ Sculptoris	5.5	58 8.598	2.8626	−0.0105	+0.0061	−32 2 11.56	19.404	0.113	+0.008	8	3.34
100	ϵ Piscium	4.4	0 58 16.178	+3.1162	+0.0089	−0.0054	+ 7 24 20.90	+19.401	−0.123	+0.028	8	3.33
101	B. D.+51° 220	6.3	0 58 44.533	+3.5065	+0.0523	------	+52 1 13.68	+19.391	−0.138	-----	9 8	3.42 3.36
102*	Lal. 1854	6.1	0 59 32.255	3.2642	+0.0231	+0.0073	+29 10 42.89	19.373	0.130	−0.123	8	3.32
103	Lal. 1947	6.3	1 1 46.179	2.9105	−0.0065	------	−24 28 24.30	19.322	0.121	-----	8 7	3.78 4.05
104	μ Cassiop	5.3	2 17.954	3.5750	+0.0585	+0.3924	+54 28 38.98	19.310	0.148	−1.558	8	3.83
105	B. D.+38° 194	8.0	1 2 55	+3.3635	+0.0326	------	+38 46 18.73	+19.295	−0.141	-----	-- 4	-- 6.89

52. Double, $6^m.6$, $6^m.7$, <1″. 60. Var. irreg., $2^m.2$–$2^m.8$. 75. Comp., $7^m.6$, 5″, s. pr. (1910). The proper motion is variable, due to orbital motion. Values given for c. g.

[From observations in 1911–1918]

No.	Name	Magnitude	Right Ascension 1910.0	Annual Precession 1910.0	Secular Variation 1910.0	Annual Proper Motion	Declination 1910.0	Annual Precession 1910.0	Secular Variation 1910.0	Annual Proper Motion	Number of Observations	Mean Date
			h m s	s	s	s	° ′ ″	″	″	″		1910+
106	Bradley 131	6.3	1 3 2.272	+ 3.2952	+ 0.0253	+0.0153	+31 31 55.08	+19.292	−0.138	−0.047	8	3.37
107	Bradley 132	5.6	3 7.309	3.2067	0.0167	+0.0060	+20 15 38.21	19.290	0.135	−0.092	8	3.82
108	Bradley 135	5.9	3 14.668	3.0066	0.0003	+0.0097	−10 16 0.95	19.287	0.128	+0.022	8	3.32
109	Weisse$_1$ 0 1075	6.9	3 39.361	3.1334	0.0102	−0.0022	+ 9 25 39.56	19.278	0.133	+0.048	9	4.02
110	η Ceti	3.6	1 4 3.772	+ 3.0031	+ 0.0002	+0.0141	−10 39 33.55	+19.268	−0.129	−0.133	9	3.34
111	44 H. Cephei	5.7	1 4 27.620	+ 5.0163	+ 0.3451	+0.0326	+79 11 42.26	+19.258	−0.211	+0.008	8	3.30
112	44 H. Cephei s. P	5.7	4 27.589	5.0163	0.3451	+0.0326	+79 11 42.82	19.258	0.211	+0.008	8	3.85
113	β Andromedæ	2.4	4 41.330	3.3345	0.0289	+0.0149	+35 8 36.34	19.253	0.144	−0.115	106 79	4.78 4.86
114	Bradley 139	5.5	5 48.955	3.8676	0.0963	+0.0035	+64 32 25.81	19.225	0.168	−0.015	9	3.56
115	Oeltzen 1188	6.9	1 5 57.308	+ 3.4613	+ 0.0420	------	+45 42 20.05	+19.222	−0.151	-----	8	3.38
116	τ Piscium	4.7	1 6 41.964	+ 3.2905	+ 0.0239	+0.0055	+29 36 42.94	+19.203	−0.146	−0.038	19 9	4.85 3.53
117	Bradley 156	6.9	8 15.836	3.0226	0.0020	−0.0038	− 7 15 38.38	19.163	0.138	−0.019	9 8	3.24 3.30
118	ζ Piscium	5.6	9 1.630	3.1219	0.0092	+0.0089	+ 7 5 58.73	19.144	0.143	−0.052	8	3.38
119	B. D.+38° 220	7.7	9 37	3.3959	0.0333	----	+38 58 24.54	19.128	0.156	----	-- 4	--- 6.88
120	Bradley 165	5.8	1 10 13.386	+ 3.0623	+ 0.0049	−0.0017	− 1 27 18.03	+19.112	−0.143	+0.219	8	3.34
121	Weisse$_2$ I 162	6.6	1 12 8.582	+ 3.4077	+ 0.0336	------	+39 0 20.96	+19.061	−0.162	-----	8 13	3.30 4.68
122	Groomb. 282	7.2	12 27.177	3.4760	0.0403	------	+44 9 26.95	19.052	0.166	-----	2	3.50
123	f Piscium	5.3	13 9.269	3.0955	0.0073	−0.0034	+ 3 8 26.49	19.033	0.150	−0.023	8	3.35
124	φ Cassiop	5.2	14 24.595	3.7484	0.0701	+0.0012	+57 45 31.38	18.999	0.182	+0.005	9	3.35
125	υ Piscium	4.7	1 14 30.929	+ 3.2881	+ 0.0220	+0.0017	+26 47 28.19	+18.996	−0.161	−0.012	8	3.30
126	Lal. 2406	7.7	1 15 11.269	+ 2.8678	− 0.0057	------	−25 25 16.71	+18.977	−0.143	-----	11	3.88
127*	Lal. 2416	6.8	15 32.256	2.9462	− 0.0017	+0.003	−16 17 3.89	18.967	0.147	0.08	9 10	3.36 3.42
128	Weisse$_2$ I 265	7.2	16 21.795	3.2483	+ 0.0184	------	+21 54 9.82	18.943	0.163	-----	8	3.90
129	Weisse$_1$ I 209	6.9	16 34.113	3.1582	+ 0.0117	+0.0030	+11 3 53.71	18.937	0.159	+0.008	8	3.34
130	ξ Andromedæ	5.0	1 17 2.117	+ 3.5142	+ 0.0421	+0.0039	+45 3 ----	+18.924	−0.177	+0.004	12 --	6.02 ---
131	θ Ceti	3.8	1 19 31.426	+ 3.0034	+ 0.0020	−0.0054	− 8 38 52.47	+18.851	−0.157	−0.213	198 189	4.10 4.13
132	ψ Cassiop	5.0	19 33.618	4.1790	0.1231	+0.0139	+67 39 37.94	18.850	0.215	+0.034	8	3.33
133	ψ Cassiop. s. P	5.0	19 33.552	4.1790	0.1231	+0.0139	+67 39 37.90	18.850	0.215	+0.034	6 8	3.30 3.80
134	δ Cassiop	2.8	19 55.153	3.8561	0.0784	+0.0401	+59 46 4.25	18.839	0.200	−0.046	9	3.30
135	δ Cassiop. s. P	2.8	1 19 55	+ 3.8561	+ 0.0784	+0.0401	+59 46 3.48	+18.839	−0.200	−0.046	-- 4	--- 5.34
136	Weisse$_1$ I 280	6.4	1 20 14.249	+ 3.0460	+ 0.0045	------	− 3 19 1.31	+18.830	−0.160	-----	8	3.38
137	Lal. 2597	6.9	21 45.132	3.3081	0.0223	------	+26 46 48.72	18.784	0.176	-----	8	3.30
138	94 Piscium	5.6	21 49.781	3.2313	0.0165	+0.0035	+18 46 26.95	18.782	0.172	−0.057	8	3.36
139	ω Andromedæ	5.0	22 16.059	3.5410	+ 0.0423	+0.0324	+44 56 ----	18.768	0.189	−0.096	7 --	6.26 ---
140	Bradley 192	5.7	1 22 25.069	+ 2.9594	0.0000	+0.0016	−13 31 27.20	+18.764	−0.160	+0.004	8	3.34
141	γ Phœnicis	3.4	1 24 27	+ 2.6112	− 0.0122	−0.0028	−43 46 46.99	+18.700	−0.145	−0.219	-- 18	--- 4.66
142	38 Cassiop	6.0	24 30.874	4.3819	+ 0.1459	+0.0278	+69 48 6.43	18.698	0.238	−0.066	8	3.38
143	38 Cassiop. s. P	6.0	24 30.886	4.3819	+ 0.1459	+0.0278	+69 48 6.62	18.698	0.238	−0.066	7 9	3.65 4.05
144	48 Ceti	5.1	25 17.093	2.8753	− 0.0035	+0.0040	−22 5 40.72	18.674	0.160	+0.002	8	3.34
145	Bradley 201	6.6	1 25 27.634	+ 2.8342	− 0.0051	------	−26 4 59.59	+18.668	−0.158	-----	8	3.79
146	μ Piscium	5.1	1 25 28.097	+ 3.1210	+ 0.0091	+0.0194	+ 5 40 48.39	+18.668	−0.174	−0.044	9	3.31
147	B. D.+38° 275	7.3	25 49	3.4688	+ 0.0344	------	+39 1 49.98	18.657	0.193	-----	-- 4	--- 6.87
148	η Piscium	3.7	26 39.877	3.2036	+ 0.0143	+0.0020	+14 52 55.39	18.630	0.180	−0.010	100 54	4.52 4.46
149	α Ursæ Min	2.1	26 57.33	27.219	+22.617	+0.144	+88 49 33.46	18.621	1.476	0.000	239 236	4.78 4.78
150	α Ursæ Min. s. P	2.1	1 26 57.08	+27.219	+22.617	+0.144	+88 49 33.38	+18.621	−1.476	0.000	241 234	4.24 4.23
151	Weisse$_2$ I 1515	6.3	1 26 59.385	+ 3.4108	+ 0.0293	------	+34 20 12.17	+18.619	−0.192	-----	8	3.30
152	Oeltzen 1649	7.2	27 44.248	3.7719	0.0625	------	+54 28 56.82	18.595	0.213	-----	8	3.34
153*	B. D.−7° 256	5.9	29 11.102	3.0059	0.0030	+0.0114	− 7 29 6.95	18.547	0.174	−0.086	10	3.72
154	Bradley 207	6.2	30 56.635	3.6515	0.0487	−0.0004	+48 15 48.38	18.488	0.213	−0.013	8	3.32
155	Bradley 211	6.2	1 30 57.505	+ 3.2033	+ 0.0140	+0.0001	+14 12 5.09	+18.488	−0.188	−0.011	9	3.31
156	40 Cassiop	5.5	1 31 18.002	+ 4.7250	+ 0.1879	−0.0012	+72 34 53.90	+18.476	−0.275	−0.006	8	3.42
157	40 Cassiop. s. P	5.5	31 17.995	4.7250	+ 0.1879	−0.0012	+72 34 53.98	18.476	0.275	−0.006	8	3.79
158	υ Andromedæ	4.2	31 30.452	3.5234	+ 0.0372	−0.0158	+40 57 18.80	18.469	0.207	−0.378	14 8	4.47 3.37
159	Bradley 213	5.5	31 35.566	2.9248	− 0.0005	+0.0016	−15 51 37.29	18.466	0.174	+0.017	8	3.42
160	π Piscium	5.6	1 32 19.476	+ 3.1808	+ 0.0126	−0.0051	+11 40 53.64	+18.441	−0.190	+0.037	8	3.32

[From observations in 1911–1918]

No.	Name	Magnitude	Right Ascension 1910.0	Annual Precession 1910.0	Secular Variation 1910.0	Annual Proper Motion	Declination 1910.0	Annual Precession 1910.0	Secular Variation 1910.0	Annual Proper Motion	Number of Observations	Mean Date
			h m s	s	s	s	° ′ ″	″	″	″		1910+
161	υ Persei	3.8	1 32 27.638	+3.6587	+0.0487	+0.0061	+48 10 20.97	+18.437	−0.217	−0.112	8	3.37
162	Bradley 205	6.6	32 29.368	5.4421	0.3208	.....	+77 30 43.37	18.436	0.319	.....	8	3.39
163	Bradley 205 s. p	6.6	32 29.361	5.4421	0.3208	.....	+77 30 43.14	18.436	0.319	.....	8	3.71
164	Lal. 3002	6.9	33 41.391	3.2758	0.0184	.....	+20 56 25.99	18.394	0.198	.....	8	3.38
165	τ Andromedæ	4.9	1 35 15.677	+3.5273	+0.0363	+0.0012	+40 7 17.34	+18.339	−0.215	−0.025	8	3.31
166	ω Cassiop	5.5	1 35 39.592	+4.3862	+0.1289	+0.0097	+67 35 17.38	+18.325	−0.267	−0.002	9	3.52
167	ω Cassiop. s. p	5.5	35 39.508	4.3862	0.1289	+0.0097	+67 35 17.87	18.325	0.267	−0.002	5 7	2.98 4.12
168	ν Piscium	4.7	36 44.726	3.1207	0.0092	−0.0014	+ 5 1 56.67	18.286	0.194	+0.001	8	3.38
169	Groomb. 371	6.5	37 47.445	3.6231	0.0433	.....	+44 52 7.87	18.249	0.226	.....	8	3.30
170	φ Persei	4.2	1 38 0.675	+3.7386	+0.0533	+0.0029	+50 14 8.41	+18.241	−0.234	−0.018	8	3.36
171	π Sculptoris	5.3	1 38 4.882	+2.7153	−0.0065	−0.0047	−32 46 50.23	+18.238	−0.172	−0.030	10 9	3.71 3.57
172	Pulk. 55, 245	5.3	38 10.404	3.0323	+0.0049	+0.0012	− 4 8 35.77	18.235	0.191	−0.022	8	3.37
173	τ Ceti	3.6	39 52.732	2.9064	−0.0002	−0.1194	−16 24 37.38	18.172	0.187	+0.857	8	3.85
174	ο Piscium	4.5	40 38.336	3.1595	+0.0112	+0.0046	+ 8 42 18.52	18.144	0.204	+0.051	13	3.91
175	Piazzi I 159	5.7	1 41 13.768	+4.2138	+0.1004	+0.0876	+63 24 30.23	+18.122	−0.270	−0.236	9	3.54
176	ε Sculptoris	5.4	1 41 25.879	+2.7995	−0.0036	+0.0116	−25 30 7.75	+18.115	−0.182	−0.057	9	3.51
177	Lac. 513	6.4	41 51.283	2.7696	−0.0044	.....	−27 47 54.74	18.099	0.181	.....	9	3.51
178	Weisse$_1$ I 719	6.8	42 34.880	2.9247	+0.0008	.....	−14 20 19.66	18.071	0.192	.....	10	3.71
179	Bradley 235	5.7	43 17.858	3.2451	+0.0157	+0.0033	+16 30 27.40	18.044	0.214	−0.025	8	3.31
180	Lal. 3301	6.7	1 43 22.603	+2.8455	−0.0019	.....	−21 17 35.93	+18.041	−0.189	.....	8	3.80
181	Groomb. 379	6.9	1 43 41.157	+5.2748	+0.2524	.....	+75 8 37.89	+18.029	−0.344	.....	8	3.49
182	Groomb. 379 s. p	6.9	43 41.115	5.2748	0.2524	.....	+75 8 37.62	18.029	0.344	.....	10 9	3.84 3.90
183	Weisse$_2$ I 956	6.7	44 23.871	3.3596	0.0224	.....	+26 1 31.36	18.002	0.223	.....	9	3.32
184	Rad. 45, 526	7.6	45 41.215	6.6134	0.5318	.....	+80 28 0.58	17.952	0.437	.....	8	3.37
185	Rad. 45, 526 s. p	7.6	1 45 41.199	+6.6134	+0.5318	.....	+80 28 0.15	+17.952	−0.437	.....	6 9	3.40 4.08
186	ζ Ceti	3.9	1 47 1.035	+2.9580	+0.0024	+0.0025	−10 46 46.28	+17.900	−0.202	−0.032	8	3.81
187	ε Cassiop	3.4	47 54.405	4.2741	0.1006	+0.0057	+63 13 38.20	17.865	0.290	−0.017	8 9	3.47 3.31
188	ε Cassiop. s. p	3.4	47 54	4.2741	0.1006	+0.0057	+63 13 38.14	17.865	0.290	−0.017	. 25	... 4.31
189	α Trianguli	3.6	47 56.789	3.4106	0.0251	+0.0013	+29 8 25.54	17.863	0.233	−0.232	19 8	5.00 3.38
190	ξ Piscium	4.8	1 48 53.655	+3.1018	+0.0084	+0.0015	+ 2 44 36.89	+17.825	−0.214	+0.025	8	3.33
191	46 Cassiop	5.0	1 48 59.506	+4.6057	+0.1394	+0.0016	+68 14 36.78	+17.821	−0.315	−0.004	9	3.50
192	Weisse$_1$ I 837	7.0	49 36.940	3.1627	0.0112	+0.0050	+ 8 20 18.12	17.796	0.220	+0.027	8	3.36
193	β Arietis	2.7	49 39.914	3.3010	0.0184	+0.0068	+20 22 5.63	17.795	0.229	−0.111	117 95	4.63 4.73
194	Weisse$_2$ I 1166	7.2	52 52.614	3.4477	0.0266	.....	+30 41 47.86	17.663	0.245	.....	9	3.63
195	λ Arietis	4.8	1 52 54.546	+3.3429	+0.0204	−0.0068	+23 9 26.66	+17.662	−0.238	−0.018	9	3.48
196	Lal. 3606	6.7	1 54 30.057	+4.1605	+0.0829	.....	+59 31 24.38	+17.596	−0.298	.....	9	3.51
197	Piazzi I 223	6.1	54 36.582	3.2071	0.0132	−0.0001	+11 51 30.97	17.591	0.232	−0.035	8	3.37
198	Bradley 271	5.8	55 28.190	3.1026	0.0086	+0.0155	+ 2 40 0.18	17.555	0.226	−0.244	8	3.35
199	50 Cassiop	4.1	55 43.515	5.0606	0.1909	−0.0083	+71 59 10.92	17.544	0.364	+0.023	8	3.34
200	50 Cassiop. s. p	4.1	1 55 43.478	+5.0606	+0.1909	−0.0083	+71 59 11.06	+17.544	−0.364	+0.023	7 8	3.61 3.82
201	υ Ceti	4.2	1 55 45.882	+2.8176	−0.0011	+0.0093	−21 30 49.56	+17.543	−0.206	−0.020	8	3.42
202	Paris 2509	5.7	55 58.803	2.9704	+0.0036	+0.0058	− 8 57 34.43	17.533	0.217	−0.009	11	4. 00
203	Bradley 269	5.0	56 17.928	3.9681	+0.0640	+0.0047	+54 3 10.50	17.520	0.289	+0.003	8	3. 38
204	γ Andromedæ *pr*	2.3	58 22.146	3.6646	+0.0395	+0.0042	+41 53 53.52	17.431	0.271	−0.052	29 20	5.69 5.92
205	γ Andromedæ *seq*	5.1	1 58 22.930	+3.6647	+0.0395	.....	+41 53 58.17	+17.431	−0.271	.....	9	3.55
206	Bradley 280	5.6	1 58 34.636	+3.0690	+0.0073	+0.0053	− 0 18 18.52	+17.422	−0.229	+0.025	8	3. 43
207	Lal. 3813	6.5	58 42.391	2.7735	−0.0019	.....	−24 19 9.15	17.416	0.208	.....	9	3.83
208	Lal. 3833	7.3	1 59 36.753	2.8567	+0.0004	.....	−17 56 44.03	17.377	0.215	.....	9 8	3.66 3.86
209	α Arietis	2.2	2 2 5.817	3.3612	+0.0204	+0.0137	+23 2 13.19	17.268	0.256	−0.146	134 40	4.45 5.33
210	Bradley 256	6.9	2 2 52.393	+8.7468	+1.0067	.....	+83 8 22.30	+17.233	−0.659	.....	8	3.86
211	Bradley 256 s. p	6.9	2 2 52.665	+8.7468	+1.0067	.....	+83 8 22.24	+17.233	−0.659	.....	5 8	3.83 3.42
212	Bradley 288	4.8	3 3.054	3.5958	+0.0337	+0.0127	+37 25 57.26	17.225	0.275	−0.041	8	3. 36
213	Lac. 638	7.2	4 4.759	2.7064	−0.0026	.....	−27 59 55.69	17.179	0.211	.....	8	3.79
214	β Trianguli	3.1	4 11.007	3.5473	+0.0305	+0.0123	+34 33 42.92	17.174	0.274	−0.046	117 55	3.98 4.22
215	15 Arietis	5.9	2 5 38.055	+3.3134	+0.0177	+0.0062	+19 4 34.03	+17.109	−0.259	−0.028	10	3. 40

176. Comp. 9m, 5″ n. f.

[From observations in 1911–1918]

No.	Name	Magnitude	Right Ascension 1910.0	Annual Precession 1910.0	Secular Variation 1910.0	Annual Proper Motion	Declination 1910.0	Annual Precession 1910.0	Secular Variation 1910.0	Annual Proper Motion	Number of Observations	Mean Date
			h m s	s	s	s	° ′ ″	″	″	″		1910+
216	Weisse$_1$ II 33	7.3	2 6 23.933	+2.9063	+0.0023	....	−13 21 3.44	+17.074	−0.229	.....	8	3.90
217	Bradley 302	5.7	6 35.804	3.1729	0.0115	−0.0092	+ 8 8 54.94	17.065	0.250	−0.108	10	3.93
218	Bradley 301 *pr*	5.4	7 8.636	3.4770	0.0259	.....	+29 52 53.55	17.039	0.274	.....	4	4.95
219	Bradley 301 *mean*	5.2	7 8.729	3.4770	0.0259	.....	+29 52 54.24	17.039	0.274	.....	7 6	3.17 2.89
220	55 Cassiop	6.2	2 7 24.199	+4.6642	+0.1236	−0.0002	+66 6 11.14	+17.027	−0.366	+0.003	8	3. 42
221	55 Cassiop. s. P	6.2	2 7 24.236	+4.6642	+0.1236	−0.0002	+66 6 11.15	+17.027	−0.366	+0.003	8 9	3.76 3.82
222	Bradley 300	5.1	7 34.199	3.7498	+0.0424	−0.0014	+43 48 35.40	17.020	0.296	−0.007	8	3.84
223	6 Persei	5.4	7 36.810	3.9338	+0.0556	+0.0365	+50 38 52.78	17.018	0.310	−0.168	12	4.00
224	ξ^1 Ceti	4.5	8 13.625	3.1776	+0.0117	−0.0017	+ 8 25 30.06	16.989	0.253	−0.007	8	3.36
225	μ Fornacis	5.2	2 8 56.681	+2.6417	−0.0031	+0.0018	−31 8 44.63	+16.956	−0.213	+0.002	9	3.57
226	Bradley 315	5.6	2 10 36.115	+3.4030	+0.0216	−0.0061	+24 37 34.58	+16.878	−0.275	−0.087	8	3.32
227	δ Trianguli	5.1	11 33.627	3.5586	+0.0297	+0.0925	+33 48 45.14	16.833	0.289	−0.247	8	3.39
228	γ Trianguli	4.1	11 57.525	3.5529	+0.0293	+0.0034	+33 25 52.69	16.814	0.289	−0.051	20 11	5.11 4.21
229	B. D.+56° 498	8.7	12 4	4.1766	+0.0726	.....	+56 35 38.18	16.808	0.339	.....	-- 11	--- 5.03
230	67 Ceti	5.7	2 12 29.607	+2.9850	+0.0050	+0.0061	− 6 50 12.11	+16.788	−0.245	−0.108	9	3.57
231	θ Arietis	5.7	2 13 6.945	+3.3320	+0.0180	−0.0010	+19 29 6.45	+16.759	−0.274	−0.006	8	3.38
232	Weisse$_1$ II 144	7.8	13 13.614	3.2421	0.0142	....	+13 0 51.36	16.753	0.267	.....	8	3.36
233	Piazzi II 52	5.8	13 20.856	3.0896	0.0084	+0.0245	+ 1 19 58.50	16.747	0.255	+0.377	8 9	3.39 3.45
234	Bradley 319	5.1	13 27.884	3.8598	0.0479	−0.0056	+46 57 54.58	16.742	0.316	−0.011	8 7	3.46 3.54
235	B. D.+56° 543	8.0	2 13 35	+4.2011	+0.0737	.....	+56 54 13.58	+16.736	−0.344	.....	-- 11	--- 5.03
236	o Ceti	var.	2 14 47.876	+3.0286	+0.0064	−0.0001	− 3 23 10.25	+16.677	−0.252	−0.237	8	3.39
237	Bradley 335	5.6	17 37.154	3.0555	+0.0074	−0.0018	− 1 17 39.73	16.539	0.259	−0.048	8	3. 33
238	Lal. 4410	6.0	17 50.507	2.8258	+0.0013	....	−18 4 17.42	16.528	0.240	.....	8	3. 37
239	κ Fornacis	5.4	18 25.469	2.7310	−0.0005	+0.0147	−24 13 30.32	16.499	0.233	−0.061	8	3. 36
240	B. D.+38° 472	7.7	2 18 37	+3.6865	+0.0354	.....	+38 56 15.16	+16.489	−0.313	.....	-- 4	--- 7.00
241	Lac. 726	6.6	2 20 17.467	+2.6937	−0.0010	.....	−26 15 19.76	+16.406	−0.233	.....	8	3.32
242	ρ Ceti	4.9	21 36.055	2.8981	+0.0032	−0.0017	−12 41 46.19	16.340	0.252	−0.009	8	3.38
243	ι Cassiop	4.6	21 38.026	4.8966	+0.1326	−0.0006	+66 59 54.51	16.338	0.421	+0.014	8	3.38
244	ι Cassiop. s. P	4.6	21 37.987	4.8966	+0.1326	−0.0006	+66 59 54.34	16.338	0.421	+0.014	8	3.72
245	Lal. 4552	6.0	2 22 24.176	+2.7824	+0.0008	.....	−20 27 0.18	+16.299	−0.243	.....	8	3.37
246	Bradley 342	5.4	2 22 53.103	+3.5098	+0.0253	−0.0014	+29 16 4.47	+16.274	−0.306	−0.087	8 9	3.33 3.40
247	ξ^2 Ceti	4.3	23 22.279	3.1833	0.0117	+0.0026	+ 8 3 25.14	16.250	0.279	−0.004	8	3.36
248	B. D.+38° 491	6.9	24 21	3.7040	0.0351	....	+38 44 9.48	16.199	0.325	.....	-- 4	--- 6.98
249	Weisse$_1$ II 358	6.3	24 46.829	3.1998	0.0122	−0.0003	+ 9 9 51.33	16.177	0.282	−0.003	8	3.35
250	Bradley 349	6.1	2 25 35.395	+3.3526	+0.0180	+0.0050	+19 27 21.74	+16.135	−0.297	−0.033	8	3.37
251	Bradley 350	5.4	2 26 36.281	+3.6468	+0.0315	+0.0032	+35 44 54.66	+16.083	−0.324	+0.005	8	3.43
252	B. D.+38° 500	8.5	26 45	3.7184	0.0353	....	+38 58 18.09	16.075	0.331	.....	-- 4	--- 7.02
253	σ Ceti	4.8	27 49.226	2.8476	0.0025	−0.0055	−15 38 22.45	16.019	0.256	−0.117	8	3.36
254	B. D.+11° 354	7.6	29 10.302	3.2415	0.0136	.....	+11 47 9.91	15.948	0.293	.....	2	8.06
255	36 H. Cassiop	5.3	2 29 27.076	+5.6331	+0.2069	−0.0050	+72 25 31.57	+15.933	−0 505	+0.020	9	3.52
256	36 H. Cassiop. s. P	5.3	2 29 26.996	+5.6331	+0.2069	−0.0050	+72 25 31.53	+15.933	−0.505	+0.020	8	3.80
257	Weisse$_1$ II 434	7.0	29 34.132	3.2334	0.0132	....	+11 12 38.02	15.926	0.293	.....	8	3.33
258	Piazzi II 115	7.3	30 36.668	4.1014	0.0575	+0.0007	+51 34 7.48	15.871	0.372	−0.012	8 7	3.34 3.42
259	ν Ceti	5.0	31 8.901	3.1471	0.0104	−0.0021	+ 5 12 3.23	15.842	0.288	−0.029	8	3.36
260	Bradley 365	5.7	2 31 34.158	+2.9539	+0.0051	−0.0025	− 8 13 21.89	+15.820	−0.271	−0.066	8	3.45
261	Oeltzen 2966	7.3	2 32 58.859	+4.6425	+0.0975	.....	+62 12 49.43	+15.743	−0.426	.....	9	3.52
262	B. D.+38° 527	7.9	33 14	3.7377	0.0349	.....	+38 45 39.18	15.730	0.344	.....	-- 4	--- 6.98
263	ν Arietis	5.4	33 42.104	3.4009	0.0193	−0.0006	+21 34 21.60	15.704	0.315	−0.023	8	3.37
264	142 H^1. Cephei	5.9	34 44.487	8.3875	0.6673	+0.0088	+81 4 5.40	15.648	0.771	−0.069	8	3.41
265	142 H^1. Cephei s. P	5.9	2 34 44.363	+8.3875	+0.6673	+0.0088	+81 4 5.11	+15.648	−0.771	−0.069	8	3.76
266	δ Ceti	4.0	2 34 52.048	+3.0717	+0.0082	+0.0007	− 0 3 33.63	+15.641	−0.287	+0.001	75 52	4.29 4.30
267	Lal. 4862	7.2	34 57.321	4.4421	0.0798	.....	+58 35 28.91	15.636	0.412	....	8	3.36
268	ϵ Ceti	5.0	35 12.606	2.8906	0.0038	+0.0103	−12 15 15.35	15.622	0.271	−0.236	8	3.42
269	Lal. 4976	7.3	35 46.609	2.8206	0.0025	.....	−16 41 42.87	15.591	0.265	.....	8	3.36
270	Bradley 371	5.0	2 36 33.718	+3.7757	+0.0361	−0.0012	+39 48 48.88	+15.548	−0.354	−0.191	18 8	4.77 3.87

218. Comp., 6^m.4, 4″ n. f.
219. Double, 5^m.4, 6^m.4, 4″.

236. Var., 2^m.0–9^m.6.
243. Triple; binary, 4^m.8, 7^m.0, 2″; with comp., 8^m.2, 8″ s. f.

[From observations in 1911–1918]

No.	Name	Magnitude	Right Ascension 1910.0	Annual Precession 1910.0	Secular Variation 1910.0	Annual Proper Motion	Declination 1910.0	Annual Precession 1910.0	Secular Variation 1910.0	Annual Proper Motion	Number of Observations	Mean Date
			h m s	s	s	s	° ′ ″	″	″	″		1910+
271	B. D.+47° 683	6.6	2 36 59.056	+4.0076	+0.0490	------	+47 52 53.57	+15.524	−0.376	-----	8	3.40
272	θ Persei	4.2	38 2.819	4.0454	0.0509	+0.0343	+48 50 53.63	15.465	0.382	−0.090	8	3.82
273	Bradley 376	5.6	38 13.070	3.8919	0.0419	0.0000	+43 54 53.72	15.456	0.368	−0.004	8	3.48
274	γ Ceti *seq*	3.7	38 38.070	3.1151	0.0094	------	+ 2 51 24.53	15.433	0.296	-----	8	3.87
275	Weisse$_1$ II 624	6.6	2 38 55.796	+3.0290	+0.0071	------	− 2 54 50.46	+15.416	−0.289	-----	9	3.55
276	π Ceti	4.4	2 39 50.300	+2.8547	+0.0034	−0.0005	−14 14 22.78	+15.365	−0.274	−0.014	8 9	3.44 3.28
277	μ Ceti	4.4	40 4.518	3.2200	0.0125	+0.0190	+ 9 44 4.07	15.352	0.308	−0.027	9	3.48
278	Lac. 850	6.9	40 14.572	2.6553	0.0004	------	−25 52 38.92	15.342	0.256	-----	8	3.46
279	Bradley 373	var.	40 47.491	5.3500	0.1568	------	+69 15 23.22	15.311	0.510	-----	8	3.41
280	Weisse$_2$ II 915	6.4	2 41 24.310	+3.6921	+0.0309	------	+35 36 20.47	+15.277	−0.355	-----	8	3.34
281	39 Arietis	4.6	2 42 32.750	+3.5525	+0.0245	+0.0115	+28 52 25.43	+15.212	−0.344	−0.125	8	3.37
282	Lal. 5196	6.5	42 39.711	2.7204	0.0014	------	−22 1 2.50	15.205	0.265	-----	8	3.80
283	Bradley 393	6.0	43 29.141	3.3551	0.0168	+0.0026	+17 54 32.95	15.158	0.326	−0.035	8	3.50
284	B. D.−13° 530	var.	43 37.139	2.8731	0.0039	------	−12 50 7.06	15.151	0.281	-----	8	3.38
285	η Persei	3.9	2 44 7.276	+4.3501	+0.0678	+0.0029	+55 31 21.51	+15.122	−0.423	−0.016	8	3.41
286	41 Arietis	3.7	2 44 40.939	+3.5187	+0.0228	+0.0050	+26 53 23.09	+15.090	−0.344	−0.113	22 20	5.68 5.80
287	β Fornacis	4.5	45 19.413	2.5041	−0.0006	+0.0079	−32 47 0.33	15.053	0.248	+0.160	9	3.39
288	σ Arietis	5.5	46 31.224	3.3056	+0.0150	+0.0021	+14 42 41.84	14.983	0.326	−0.033	9 8	3.57 3.40
289	τ^2 Eridani	4.8	46 57.307	2.7243	+0.0017	−0.0037	−21 22 28.52	14.958	0.271	−0.012	8	3.34
290	τ Persei	4.1	2 47 52.082	+4.2327	+0.0584	+0.0005	+52 23 41.00	+14.905	−0.419	−0.006	8	3.36
291	Groomb. 569	7.9	2 49 23.605	+5.8950	+0.2034	------	+72 18 35.00	+14.815	−0.585	-----	8	3.38
292	Groomb. 569 S. P.	7.9	49 23.598	5.8950	0.2034	------	+72 18 35.10	14.815	0.585	-----	10	3.61
293	Weisse$_1$ II 821	7.3	50 9.917	2.9824	0.0063	------	− 5 41 46.96	14.770	0.300	-----	9	3.65
294	Weisse$_1$ II 824	7.7	50 42.306	3.3041	0.0147	------	+14 20 32.71	14.738	0.333	-----	9	3.33
295	Bradley 410	6.1	2 51 24.800	+3.2006	+0.0116	+0.0045	+ 8 1 11.18	+14.696	−0.324	−0.091	8	3.82
296	η Eridani	4.0	2 52 1.774	+2.9240	+0.0052	+0.0054	− 9 15 22.16	+14.659	−0.297	−0.215	10	3.52
297	Weisse$_1$ II 864	6.3	52 21.548	3.1386	0.0100	------	+ 4 8 16.72	14.639	0.319	-----	9	3.25
298	Bradley 412	5.8	52 55.974	3.4113	0.0180	+0.0156	+20 18 29.40	14.605	0.347	−0.031	8	3.36
299	π Persei	4.6	53 0.018	3.8221	0.0345	+0.0033	+39 18 11.05	14.601	0.388	−0.050	9	3.54
300	ε Arietis *mean*	4.6	2 54 3.704	+3.4254	+0.0184	−0.0011	+20 58 51.11	+14.537	−0.350	−0.008	9	3.69
301	47 H. Cephei	5.7	2 54 4.517	+7.8353	+0.4658	−0.0130	+79 3 50.80	+14.536	−0.793	+0.011	8	3.91
302	47 H. Cephei S. P.	5.7	54 4.554	7.8353	+0.4658	−0.0130	+79 3 50.34	14.536	0.793	+0.011	9	3.79
303	θ Eridani	3.4	54 51	2.2792	−0.0003	−0.0051	−40 39 53.11	14.490	0.236	+0.034	-- 20	--- 4.15
304	Lac. 946	6.2	55 16.564	2.5540	+0.0006	------	−29 15 53.17	14.464	0.264	-----	8 7	3.87 4.00
305	α Ceti	2.8	2 57 34.365	+3.1336	+0.0098	−0.0009	+ 3 44 13.20	+14.324	−0.326	−0.077	98 67	4.41 4.46
306	Lal. 5647	7.4	2 57 54.361	+2.7581	+0.0028	------	−18 33 41.12	+14.304	−0.288	-----	8	3.82
307	γ Persei	3.1	58 16.131	4.3241	0.0593	+0.0004	+53 9 16.83	14.281	0.448	−0.009	8	3.42
308	τ^3 Eridani	4.2	58 25.372	2.6552	0.0016	−0.0104	−23 58 37.13	14.272	0.278	−0.047	8	3.40
309	ρ Persei	var.	2 59 24.253	3.8220	0.0331	+0.0115	+38 29 31.33	14.211	0.399	−0.108	14 8	4.53 3.43
310	β Persei	var.	3 2 18.432	+3.8909	+0.0355	+0.0006	+40 36 34.23	+14.031	−0.411	−0.005	27 17	5.62 5.60
311	ι Persei	4.2	3 2 34.345	+4.1823	+0.0496	+0.1293	+49 16 12.38	+14.015	−0.442	−0.081	8	3.85
312	Weisse$_1$ II 1062	7.1	2 39.267	3.0366	0.0076	------	− 2 8 56.75	14.009	0.323	-----	9	3.51
313*	Weisse$_1$ II 1077	7.2	3 3.561	2.8320	0.0040	−0.0003	−14 6 6.99	13.984	0.302	−0.275	8	3.85
314	Bradley 440	6.5	3 14.835	3.3922	0.0166	+0.0027	+18 27 0.34	13.972	0.360	−0.018	8	3.45
315	Bradley 441	5.6	3 4 11.585	+3.6000	+0.0234	+0.0022	+28 44 1.87	+13.913	−0.384	−0.025	8	3.80
316	Oeltzen 3501	7.5	3 4 27.085	+4.3415	+0.0576	------	+52 48 5.11	+13.897	−0.462	-----	8	3.34
317	Weisse$_2$ II 1461	7.4	5 20.169	3.6739	0.0259	------	+31 53 7.08	13.841	0.393	-----	8 7	3.37 3.45
318	B. D.+47° 779	6.4	6 12.425	4.1272	0.0456	------	+47 23 17.80	13.786	0.443	-----	7 6	3.51 3.43
319	Groomb. 621	6.0	6 12.596	3.9472	0.0370	------	+42 2 11.13	13.785	0.424	-----	8	3.87
320	δ Arietis	4.5	3 6 28.784	+3.4143	+0.0170	+0.0107	+19 23 12.43	+13.768	−0.368	−0.006	8	3.88
321	Lal. 5932	7.6	3 6 37.120	+2.7101	+0.0027	------	−20 27 8.97	+13.759	−0.293	-----	9	3.95
322	Piazzi III 6	5.8	7 39.660	3.1807	0.0107	−0.0023	+ 6 19 20.35	13.693	0.344	−0.012	8	3.84
323	12 Eridani	4.0	8 14.935	2.5226	0.0012	+0.0250	−29 20 26.67	13.656	0.275	+0.648	8	3.92
324	48 H. Cephei	5.5	8 51.877	7.4623	0.3566	+0.0203	+77 24 18.44	13.616	0.804	−0.049	8	3.47
325	48 H. Cephei S. P.	5.5	3 8 51.863	+7.4623	+0.3566	+0.0203	+77 24 18.61	+13.616	−0.804	−0.049	7 8	3.68 3.90

274. Comp., $6^m.2$, 2″.7, pr.
279. Var., $6^m.4$–$7^m.7$.
284. Var., $6^m.4$–$7^m.7$.
300. Double, $5^m.2$, $5^m.6$, 1″.2.
303. Comp., $4^m.4$, 8″.5, f.
309. Var., $3^m.3$–$4^m.1$, irregular.
310. Var., $2^m.3$–$3^m.5$.
323. Comp., 7^m, 1″.4 n. pr.

[From observations in 1911–1918]

No.	Name	Magnitude	Right Ascension 1910.0	Annual Precession 1910.0	Secular Variation 1910.0	Annual Proper Motion	Declination 1910.0	Annual Precession 1910.0	Secular Variation 1910.0	Annual Proper Motion	Number of Observations	Mean Date
			h m s	s	s	s	° ′ ″	″	″	″		1910+
326	Groomb. 627	5.9	3 8 53.640	+ 4.5719	+0.0690	+0.0001	+56 48 21.77	+13.614	−0.495	+0.004	9	3.36
327	ζ Arietis	5.0	9 43.474	3.4446	0.0177	−0.0017	+20 42 40.77	13.561	0.376	−0.075	8	3.44
328	Bradley 402	5.8	10 49.991	13.5202	1.6604	+0.051	+84 35 40.55	13.489	1.464	−0.132	10 9	3.23 3.28
329	Bradley 402 s. p	5.8	10 49.983	13.5202	1.6604	+0.051	+84 35 40.33	13.489	1.464	−0.132	8	3.76
330	ζ Eridani	4.9	3 11 27.620	+ 2.9128	+0.0055	−0.0003	− 9 9 13.08	+13.448	−0.321	+0.045	9 8	3.57 3.53
331	B. D.+38° 690	6.0	3 11 55.435	+ 3.8752	+0.0326	------	+38 57 11.07	+13.418	−0.425	-----	8 12	3.41 4.60
332	Weisse 1 III 172	7.6	13 18.091	3.2937	0.0133	------	+12 29 41.35	13.328	0.364	-----	8	3.56
333	Paris 3965	5.8	14 34.571	2.7293	0.0032	+0.0083	−18 53 10.29	13.245	0.304	−0.021	10	3.46
334	κ Ceti	5.0	14 38.381	3.1258	0.0094	+0.0177	+ 3 2 26.52	13.241	0.348	+0.094	8	3.40
335	Bradley 469	4.0	3 15 30.777	+ 2.6640	+0.0026	+0.0036	−22 5 6.30	+13.183	−0.298	+0.042	8	3.48
336	τ Arietis	5.2	3 16 1.650	+ 3.4562	+0.0174	+0.0021	+20 49 23.28	+13.149	−0.386	−0.030	8	3.37
337	Piazzi III 27	5.6	16 50.929	5.1717	0.1032	+0.0017	+64 15 54.71	13.095	0.576	+0.016	8	3.92
338	α Persei	1.9	17 53.408	4.2636	0.0482	+0.0028	+49 32 29.62	13.026	0.478	−0.028	8	3.96
339	Lac. 1071	6.3	18 24.105	2.5781	0.0021	+0.0018	−25 54 33.93	12.992	0.292	+0.017	8	3.89
340	o Tauri	3.8	3 19 58.027	+ 3.2294	+0.0114	−0.0045	+ 8 42 45.26	+12.887	−0.366	−0.078	89 47	3.87 4.04
341	Weisse 1 III 312	7.4	3 20 40.295	+ 2.9864	+0.0068	------	− 4 47 49.34	+12.840	−0.340	-----	10 9	3.39 3.46
342	2 H. Camelop	4.4	21 46.208	4.8307	0.0771	+0.0005	+59 37 38.67	12.766	0.548	−0.001	8 9	3.38 3.45
343	ξ Tauri	3.8	22 17.345	3.2438	0.0117	+0.0040	+ 9 25 10.20	12.731	0.371	−0.041	8	3.45
344	Weisse 2 III 412	6.7	22 49.955	3.4521	0.0167	------	+20 9 4.88	12.694	0.395	-----	10	3.44
345	Lal. 6371	7.1	3 23 15.149	+ 3.6721	+0.0232	------	+30 3 49.02	+12.666	−0.420	-----	8	3.93
346	Paris 4113	5.8	3 23 43.354	+ 2.8596	+0.0050	+0.0014	−11 35 52.10	+12.634	−0.329	−0.052	9 8	3.56 3.49
347	σ Persei	4.6	24 13.361	4.2142	0.0437	+0.0006	+47 41 6.71	12.600	0.483	+0.022	8	3.86
348	B. D.+38° 737	7.2	25 15	3.9125	0.0311	------	+38 50 24.95	12.530	0.450	-----	-- 4	--- 6.99
349	Lal. 6499	6.8	25 39.330	2.6121	0.0026	------	−23 47 9.94	12.502	0.303	-----	8	3.43
350	f Tauri	4.3	3 25 54.094	+ 3.3068	+0.0129	+0.0012	+12 37 43.53	+12.486	−0.382	−0.004	10 9	3.57 3.52
351	Bradley 487	4.8	3 26 9.034	+ 2.9739	+0.0066	+0.0006	− 5 22 59.81	+12.468	−0.345	+0.010	8	3.90
352	Pulk. 55, 503	5.8	26 55.872	3.8115	0.0272	−0.0006	+35 9 22.41	12.415	0.442	−0.008	8	3.36
353	Bradley 489	5.6	27 43.610	3.2405	0.0114	+0.0018	+ 9 4 10.97	12.360	0.377	−0.040	8	3.88
354	ε Eridani	3.8	28 41.096	2.8909	0.0054	−0.0657	− 9 45 44.93	12.294	0.338	+0.014	8	3.40
355	τ^5 Eridani	4.3	3 29 48.738	+ 2.6458	+0.0030	+0.0034	−21 56 3.79	+12.216	−0.311	−0.020	8	3.48
356	Bradley 494	6.7	3 31 40.250	+ 3.5232	+0.0178	−0.0008	+22 54 50.29	+12.087	−0.415	−0.036	10	3.44
357	Bradley 496	6.1	32 10.052	3.0780	0.0082	−0.0014	+ 0 17 39.23	12.052	0.364	−0.150	8	3.42
358	Bradley 498	5.3	32 11.308	2.7304	0.0038	+0.0017	−17 45 52.43	12.051	0.323	−0.013	10	3.55
359	10 Tauri	4.4	32 16.615	3.0747	0.0081	−0.0156	+ 0 6 57.75	12.044	0.363	−0.482	8	3.45
360*	Weisse 1 III 560	6.9	3 34 16.460	+ 3.3327	+0.0130	−0.0006	+13 36 2.25	+11.904	−0.396	−0.091	9	3.33
361	11 H^1. Camelop	5.3	3 34 20.019	+ 5.1764	+0.0894	−0.0009	+62 55 32.81	+11.900	−0.612	+0.021	8	3.50
362	Bradley 502	6.0	34 34.414	2.9610	0.0064	−0.0010	− 5 54 52.27	11.883	0.353	−0.204	8	3.91
363	Weisse 2 III 665	7.1	34 54.449	4.0057	0.0322	------	+40 53 43.97	11.860	0.476	-----	9 8	3.42 3.48
364	B. D.+38° 782	7.6	34 54	3.9396	0.0299	------	+38 49 34.93	11.860	0.468	-----	-- 4	--- 6.99
365	τ Fornacis	6.1	3 35 2.960	+ 2.4937	+0.0024	+0.0009	−28 14 12.18	+11.850	−0.298	+0.032	9 8	4.01 3.90
366	δ Persei	3.1	3 36 30.643	+ 4.2543	+0.0413	+0.0032	+47 30 1.60	+11.746	−0.508	−0.033	11	4.55
367	149 H^1. Cephei	5.8	37 17.26	20.161	3.325	+0.165	+86 21 54.07	11.692	2.393	−0.068	7 8	3.81 3.93
368	149 H^1. Cephei s. p	5.8	37 16.96	20.161	3.325	+0.165	+86 21 54.39	11.692	2.393	−0.068	9	3.96
369	13 H^1. Camelop	5.8	37 29.020	5.6216	0.1155	+0.0164	+66 55 12.07	11.678	0.671	−0.102	10	3.50
370	Oeltzen 4062	6.1	3 38 21.956	+ 4.1932	+0.0383	------	+45 48 56.14	+11.615	−0.503	-----	9	3.64
371	B. D.+23° 495	8.5	3 38 22	+ 3.5595	+0.0180	------	+24 5 24.35	+11.615	−0.428	-----	-- 6	--- 3.94
372	B. D.+24° 540	8.1	38 39	3.5641	0.0181	------	+24 16 22.80	11.595	0.429	-----	-- 6	--- 3.94
373	δ Fornacis	4.9	38 40.062	2.3853	0.0023	−0.0004	−32 13 31.69	11.593	0.288	+0.007	9 8	3.71 3.82
374	o Persei	3.9	38 40.234	3.7539	0.0233	+0.0008	+32 0 13.45	11.593	0.451	−0.024	8	3.90
375	Pulk. 55, 529	5.6	3 38 41.641	+ 3.8698	+0.0268	+0.0035	+36 10 35.32	+11.591	−0.465	−0.035	8	3.86
376	Lal. 6780	6.8	3 38 52.550	+ 4.6180	+0.0563	------	+54 46 52.75	+11.578	−0.555	-----	9	4.05
377	δ Eridani	3.7	38 56.075	2.8788	0.0054	−0.0063	−10 4 0.98	11.574	0.348	+0.743	8	3.50
378	ν Persei	3.9	39 4.413	4.0656	0.0334	−0.0008	+42 17 41.76	11.564	0.489	+0.001	13 9	4.64 3.85
379	B. D.+27° 556	6.7	39 8.674	3.6437	0.0201	------	+27 36 54.60	11.559	0.439	-----	8	3.91
380	Piazzi III 138	5.7	3 39 15.803	+ 2.8648	+0.0052	−0.0012	−10 46 12.94	+11.551	−0.346	−0.009	8	3.97

344. Comp., 8m.0, 6″.7 s. f. 354. Comp., 9m.7 ″ s. 357. Comp., 8m.2, 6″ s. pr.

[From observations in 1911–1918]

No.	Name	Magnitude	Right Ascension 1910.0	Annual Precession 1910.0	Secular Variation 1910.0	Annual Proper Motion	Declination 1910.0	Annual Precession 1910.0	Secular Variation 1910.0	Annual Proper Motion	Number of Observations	Mean Date
			h m s	s	s	s	° ′ ″	″	″	″		1910+
381	17 Tauri	3.8	3 39 31.650	+ 3.5554	+0.0177	+0.0014	+23 49 51.29	+11.532	−0.429	−0.050	8	3.90
382	5 H. Camelop.	4.7	40 50.389	6.2701	0.1595	+0.0060	+71 3 21.37	11.438	0.755	−0.036	8	3.46
383	5 H. Camelop. S. P.	4.7	40 50.346	6.2701	0.1595	+0.0060	+71 3 21.81	11.438	0.755	−0.036	8	3.93
384	B. D.+24° 562	6.7	41 37	3.5679	0.0178	.....	+24 14 30.03	11.381	0.433	.....	.. 1	... 3.92
385	Lac. 1213	6.9	3 41 45.318	+ 2.5311	+0.0028	.....	−26 11 47.16	+11.372	−0.309	.....	10	3.94
386	B. D.+24° 566	7.3	3 42 2	+ 3.5701	+0.0178	.....	+24 18 38.49	+11.352	−0.434	.....	.. 1	... 3.92
387	η Tauri	3.0	42 7.873	3.5591	0.0176	+0.0014	+23 49 38.44	11.345	0.433	−0.048	75 63	4.71 4.88
388	τ^6 Eridani	4.3	42 58.473	2.5919	0.0031	−0.0118	−23 30 56.64	11.284	0.317	−0.523	8	3.92
389	27 Tauri	3.8	43 48.438	3.5604	0.0174	+0.0014	+23 46 43.36	11.224	0.435	−0.050	8	3.46
390	Weisse$_1$ III 790	6.1	3 44 1.756	+ 3.0716	+0.0079	.....	− 0 2 53.32	+11.207	−0.376	.....	8	3.44
391	Lal. 7098	6.1	3 44 37.907	+ 2.6425	+0.0034	.....	−21 10 41.63	+11.164	−0.325	.....	9 8	3.47 3.56
392	Lal. 7019	5.8	46 24.377	4.8380	0.0630	+0.0118	+57 42 30.00	11.034	0.594	−0.079	8	3.46
393	Bradley 535	5.6	47 12.154	3.1953	0.0097	0.0000	+ 6 15 53.60	10.976	0.394	−0.007	8	3.87
394	Piazzi III 187	6.0	48 1.090	3.4165	0.0138	+0.0100	+17 3 34.59	10.916	0.422	−0.033	8	3.50
395	ζ Persei	2.9	3 48 28.226	+ 3.7634	+0.0220	+0.0010	+31 37 0.93	+10.883	−0.465	−0.017	27 16	5.65 5.40
396	Weisse$_1$ III 892	6.6	3 48 43.783	+ 2.9366	+0.0060	.....	− 6 54 4.66	+10.864	−0.364	.....	8	3.48
397	Lal. 7222	6.4	49 10.439	2.6919	0.0038	.....	−18 42 6.12	10.832	0.335	.....	9 8	3.65 3.87
398	9 H. Camelop.	5.2	49 27.170	5.0900	0.0737	+0.0004	+60 50 45.99	10.811	0.630	−0.016	8	3.92
399	Weisse$_2$ III 1010	var.	49 45.251	3.7434	0.0212	.....	+30 46 52.83	10.789	0.465	.....	8	3.63
400	ϵ Persei	3.0	3 51 48.571	+ 4.0146	+0.0286	+0.0023	+39 45 1.88	+10.637	−0.501	−0.029	16 8	4.93 3.85
401	Weisse$_1$ III 943	7.4	3 51 55.585	+ 3.1279	+0.0085	.....	+ 2 47 47.31	+10.628	−0.391	.....	8	3.96
402	Weisse$_2$ III 1060	6.4	52 3.295	3.5820	0.0170	.....	+24 12 5.92	10.619	0.448	.....	8	3.98
403	ξ Persei	4.0	53 7.246	3.8844	0.0245	+0.0011	+35 31 58.51	10.539	0.486	−0.012	10 8	4.94 3.89
404	γ Eridani	3.2	53 49.761	2.7935	0.0046	+0.0046	−13 45 51.30	10.487	0.352	−0.112	69 47	4.21 4.42
405	Weisse$_1$ III 998	7.3	3 54 17.633	+ 3.3509	+0.0120	.....	+13 43 11.28	+10.452	−0.421	.....	8	3.83
406	λ Tauri	var.	3 55 41.477	+ 3.3208	+0.0114	−0.0004	+12 14 11.87	+10.347	−0.419	−0.014	8 7	3.42 3.51
407	B. D.+38° 834	7.6	56 28	3.9962	0.0270	.....	+38 50 47.61	10.289	0.504	.....	.. 4	... 7.01
408	Schwerd 215	6.7	56 31.560	7.0093	0.1932	.....	+73 45 17.43	10.285	0.881	.....	8	3.95
409	Schwerd 215 S. P.	6.7	56 31.547	7.0093	0.1932	.....	+73 45 17.68	10.285	0.881	.....	8	3.92
410	Oeltzen 4402	6.8	3 58 14.658	+ 5.2264	+0.0745	.....	+61 51 19.65	+10.155	−0.661	.....	8	3.43
411	ν Tauri	3.9	3 58 21.978	+ 3.1884	+0.0091	+0.0001	+ 5 44 24.64	+10.146	−0.405	−0.007	102 58	4.09 4.27
412	A Tauri	4.5	3 59 22.278	3.5356	0.0151	+0.0067	+21 50 11.62	10.071	0.450	−0.064	8	3.38
413	Lal. 7600	5.7	4 0 9.984	2.8044	0.0048	+0.0005	13 2 20.69	10.010	0.358	+0.011	8	3.53
414	ψ Tauri	5.3	1 26.348	3.7100	0.0186	−0.0062	+28 45 30.67	9.914	0.474	+0.003	8	3.41
415	174 G. Eridani	5.6	4 1 54.855	+ 2.4569	+0.0030	+0.0147	−27 53 51.63	+ 9.878	−0.316	+0.103	8	3.82
416	Weisse$_2$ III 1242	6.7	4 1 57.814	+ 4.1552	+0.0303	.....	+42 57 3.07	+ 9.874	−0.531	.....	11	3.51
417	c Persei	4.0	2 7.308	4.3411	0.0361	+0.0032	+47 28 22.55	9.862	0.555	−0.030	8	3.92
418	Bradley 561	5.6	2 36.474	3.9762	0.0251	+0.0136	+37 48 17.03	9.825	0.510	−0.203	9	3.57
419	Lal. 7711	6.6	3 4.258	2.5958	0.0035	.....	−22 14 5.62	9.789	0.334	.....	8	3.95
420	43 Tauri	5.7	4 3 55.201	+ 3.4834	+0.0137	+0.0075	+19 22 18.52	+ 9.724	−0.448	−0.043	8	3.54
421	B. D.+38° 848	6.8	4 4 18	+ 4.0194	+0.0259	.....	+38 59 22.67	+ 9.695	−0.517	.....	.. 4	... 7.01
422	Weisse$_1$ IV 29	6.8	5 19.291	2.9944	0.0065	.....	− 3 48 36.04	9.617	0.387	.....	8	3.87
423	p Tauri	5.6	5 20.758	3.6507	0.0168	−0.0020	+26 14 48.10	9.615	0.471	−0.037	8	3.85
424	Bradley 566	5.7	6 32.700	3.1814	0.0086	+0.0095	+ 5 17 21.66	9.523	0.412	+0.013	8	3.90
425	Rad. 45, 1158	7.3	4 7 1.598	+ 4.4203	+0.0370	.....	+48 51 48.19	+ 9.486	−0.572	.....	8	3.98
426	Groomb. 766	5.4	4 7 14.225	+13.5589	+0.9856	−0.001	+83 35 28.17	+ 9.470	−1.746	+0.014	9	3.38
427	Groomb. 766 S. P.	5.4	7 13.939	13.5589	0.9856	−0.001	+83 35 28.21	9.470	1.746	+0.014	8	3.80
428	o^1 Eridani	4.1	7 28.224	2.9263	0.0058	+0.0006	− 7 4 17.87	9.452	0.380	+0.081	9	3.52
429	Lal. 7880	6.6	7 56.917	2.7004	0.0041	.....	−17 30 17.83	9.415	0.352	.....	8	3.83
430	Groomb. 750	6.7	4 7 59.90	+17.480	+1.778	+0.015	+85 19 4.23	+ 9.411	−2.254	+0.033	28 26	4.09 3.93
431	Groomb. 750 S. P.	6.7	4 7 59.77	+17.480	+1.778	+0.015	+85 19 4.11	+ 9.411	−2.254	+0.033	21 20	3.95 3.99
432	μ Persei	4.3	8 17.012	4.3923	0.0357	+0.0013	+48 10 52.90	9.389	0.570	−0.027	8	3.94
433	Piazzi IV 7	5.1	9 41.389	4.6668	0.0444	−0.0001	+53 23 12.01	9.280	0.607	−0.004	8	3.95
434	μ Tauri	4.3	10 38.691	3.2535	0.0094	+0.0019	+ 8 40 2.69	9.206	0.425	−0.020	8	3.52
435	α Horologii	3.8	4 11 1	+ 1.9832	+0.0040	+0.0037	−42 30 58.71	+ 9.177	−0.261	−0.215	.. 4	... 7.56

398. Comp., 8m, 1″.9 n. f. 399. Var., 6m.2–6m.9. 400. Comp., 8m, 8″.6 n. f. 406. Var., 3m.3–4m.2.

[From observation in 1911–1918]

No.	Name	Magnitude	Right Ascension 1910.0	Annual Precession 1910.0	Secular Variation 1910.0	Annual Proper Motion	Declination 1910.0	Annual Precession 1910.0	Secular Variation 1910.0	Annual Proper Motion	Number of Observations	Mean Date
			h m s	s	s	s	° ′ ″	″	″	″		1910+
436	o^2 Eridani	4.5	4 11 7.159	+ 2.9099	+0.0055	−0.1486	− 7 47 46.25	+9.169	−0.381	−3.433	8	3.84
437	Bradley 576	5.6	13 3.465	3.5393	0.0137	+0.0075	+21 21 35.33	9.018	0.465	−0.039	9	3.47
438	54 Persei	5.1	14 33.720	3.8909	0.0206	−0.0025	+34 21 0.20	8.900	0.512	−0.015	8	3.90
439	γ Tauri	3.9	14 40.160	3.4027	0.0113	+0.0081	+15 24 39.41	8.892	0.448	−0.027	8	3.87
440	Bradley 586	5.3	4 15 29.941	+ 3.3913	+0.0111	+0.0077	+14 52 48.52	+8.827	−0.448	−0.033	8	3.96
441	Lal. 8165	6.6	4 16 4.565	+ 2.7132	+0.0041	.....	−16 39 10.07	+8.781	−0.359	.....	8	3.50
442	Pulk. 55, 640	5.7	16 20.860	2.9077	0.0054	+0.0016	− 7 48 26.02	8.760	0.385	+0.002	9 8	3.75 3.96
443	δ Tauri	3.9	17 44.527	3.4487	0.0118	+0.0077	+17 19 55.22	8.650	0.457	−0.033	70 55	4.00 4.07
444	Piazzi IV 68	5.9	17 47.107	2.4860	0.0033	.....	−25 56 23.36	8.647	0.331	.....	8	3.96
445	ξ Eridani	5.2	4 19 11.854	+ 2.9890	+0.0061	−0.0033	− 3 57 11.44	+8.535	−0.398	−0.052	8	3.89
446	B. D.+57° 800	6.2	4 19 32.005	+ 4.9632	+0.0502	.....	+57 22 49.20	+8.509	−0.659	.....	8	3.47
447	Lal. 8101	7.0	20 23.997	6.2599	0.1071	.....	+69 10 39.56	8.440	0.831	.....	8	3.45
448	v^5 Eridani	4.1	20 39.327	2.2475	0.0032	+0.0045	−34 13 31.10	8.420	0.301	+0.055	8	3.52
449	Weisse$_1$ IV 378	6.0	21 28.051	3.2516	0.0087	.....	+ 8 23 10.82	8.355	0.434	.....	8	3.44
450	Weisse$_1$ IV 400	6.4	4 22 19.810	+ 3.1124	+0.0071	.....	+ 1 52 41.15	+8.286	−0.417	.....	8	3.49
451	ϵ Tauri	3.6	4 23 21.544	+ 3.4919	+0.0119	+0.0080	+18 58 52.88	+8.204	−0.468	−0.038	96 71	4.45 4.46
452	Weisse$_2$ IV 436	6.6	23 46.119	3.6998	0.0152	−0.0009	+27 12 21.95	8.172	0.496	−0.035	8	3.88
453	Lal. 8474	6.7	24 2.483	2.5866	0.0036	.....	−21 42 10.86	8.150	0.348	.....	9	3.59
454	Pulk. 55, 675	5.5	24 56.091	2.7846	0.0045	+0.0005	−13 14 46.62	8.079	0.375	−0.001	8	3.84
455	Bradley 620	5.5	4 25 30.698	+ 3.4120	+0.0105	+0.0073	+15 29 48.18	+8.032	−0.459	−0.030	9	3.47
456	Lal. 8455	6.8	4 26 16.897	+ 3.9915	+0.0204	.....	+36 51 0.69	+7.971	−0.537	.....	8	3.82
457	m Persei	6.1	27 4.699	4.2126	0.0251	+0.0006	+42 52 20.91	7.907	0.568	+0.001	21 8	5.02 3.48
458	α Tauri	1.1	30 45.261	3.4347	0.0104	+0.0048	+16 19 43.33	7.610	0.466	−0.191	135 65	4.43 4.67
459	ν Eridani	4.1	31 49.221	2.9960	0.0058	0.0000	− 3 32 9.49	7.524	0.408	−0.002	9 8	3.48 3.57
460	v^7 Eridani	3.9	4 32 3.027	+ 2.3354	+0.0032	−0.0046	−30 44 46.81	+7.505	−0.319	−0.004	8	3.86
461	Bradley 640	5.3	4 32 35.269	+ 3.0902	+0.0065	−0.0008	+ 0 48 59.70	+7.462	−0.421	−0.014	8	3.42
462	Pulk. 55, 697	5.7	32 57.091	3.5367	0.0115	−0.0003	+20 30 15.82	7.432	0.482	+0.002	8	3.82
463	Bradley 642	5.3	33 4.234	3.0150	0.0059	+0.0030	− 2 39 11.06	7.422	0.412	−0.050	8	3.50
464	Cape 80, 1987	6.3	33 21.254	2.3292	0.0032	.....	−30 53 54.29	7.399	0.319	.....	8	3.96
465*	Rad. 45, 1260	6.5	4 33 30.533	+ 8.2247	+0.2028	+0.0174	+76 26 32.53	+7.387	−1.118	−0.139	16	3.75
466*	Rad. 45, 1260 s. p.	6.5	4 33 30.399	+ 8.2247	+0.2028	+0.0174	+76 26 32.47	+7.387	−1.118	−0.139	9	3.89
467	53 Eridani	4.0	34 3.447	2.7514	0.0042	−0.0054	−14 28 47.14	7.342	0.376	−0.161	8	3.94
468	Lal. 8781	7.7	34 3.841	2.6686	0.0038	.....	−17 59 43.60	7.342	0.365	.....	9	4.17
469	Bradley 646	5.4	35 2.614	3.3378	0.0088	+0.0005	+12 1 16.87	7.262	0.456	−0.026	8	3.99
470	Bradley 653	4.5	4 36 30.236	+ 2.6219	+0.0037	+0.0017	−19 50 38.25	+7.143	−0.360	−0.090	8	3.92
471	Groomb. 866	5.8	4 36 30.829	+ 4.5503	+0.0303	+0.0004	+49 48 9.49	+7.142	−0.623	−0.027	8	3.98
472	Bradley 644	5.2	36 30.976	4.2449	0.0233	+0.0041	+43 11 39.72	7.142	0.581	−0.050	9 8	3.43 3.50
473	Groomb. 848	6.0	36 42.257	8.0013	0.1803	+0.0116	+75 46 43.24	7.126	1.093	−0.131	8	3.88
474	Groomb. 848 s. p.	6.0	36 42.157	8.0013	0.1803	+0.0116	+75 46 43.55	7.126	1.093	−0.131	8	3.85
475	τ Tauri	4.3	4 36 50.427	+ 3.5973	+0.0119	+0.0004	+22 47 5.60	+7.115	−0.493	−0.022	9	3.49
476	Weisse$_2$ IV 750	6.4	4 37 58.947	+ 3.8760	+0.0160	.....	+32 41 48.32	+7.021	−0.532	.....	8	3.82
477	Bradley 656	5.9	39 45.754	2.8811	0.0048	−0.0003	− 8 40 15.75	6.876	0.398	−0.012	8	3.32
478	4 Camelop.	5.4	40 30.076	4.9784	0.0397	+0.0065	+56 35 53.10	6.815	0.685	−0.148	8	3.88
479	Lac. 1569	7.0	40 38.011	2.4113	0.0033	.....	−27 44 37.44	6.804	0.334	.....	8	3.99
480*	Bradley 651	6.3	4 40 43.869	+ 4.8979	+0.0374	+0.0091	+55 26 33.37	+6.796	−0.674	−0.091	8	3.93
481	μ Eridani	4.2	4 41 0.045	+ 2.9974	+0.0054	+0.0013	− 3 25 9.12	+6.774	−0.414	−0.010	9	3.55
482	Piazzi IV 186	6.0	41 11.871	2.5782	0.0035	.....	−21 26 53.21	6.757	0.357	.....	8	3.94
483	Weisse$_2$ IV 866	7.4	42 41.044	3.7893	0.0139	.....	+29 36 48.77	6.635	0.524	.....	8	3.49
484	Piazzi IV 197	6.0	42 50.081	2.3948	0.0032	−0.0005	−28 14 59.27	6.623	0.332	+0.015	9	4.09
485	Groomb. 856	5.3	4 43 28.033	+11.0866	+0.3887	−0.0009	+81 2 48.22	+6.570	−1.530	+0.031	8	3.42
486	Groomb. 856 s. p.	5.3	4 43 27.857	+11.0866	+0.3887	−0.0009	+81 2 47.65	+6.570	−1.530	+0.031	8	3.87
487	π^3 Orionis	3.3	44 57.324	3.2235	0.0070	+0.0316	+ 6 48 17.00	6.447	0.448	+0.020	15	5.48
488	9 Camelop.	4.4	45 5.650	5.9409	0.0669	+0.0012	+66 11 27.28	6.435	0.823	+0.005	8	3.46
489	9 Camelop. s. p.	4.4	45 5.587	5.9409	0.0669	+0.0012	+66 11 27.80	6.435	0.823	+0.005	7 8	3.23 3.52
490	B. D.+61° 739	6.6	4 45 32.478	+ 5.3888	+0.0485	.....	+61 19 52.46	+6.399	−0.747	.....	9 8	3.37 3.42

[From observations in 1911–1918]

No.	Name	Magnitude	Right Ascension 1910.0	Annual Precession 1910.0	Secular Variation 1910.0	Annual Proper Motion	Declination 1910.0	Annual Precession 1910.0	Secular Variation 1910.0	Annual Proper Motion	Number of Observations	Mean Date
			h m s	s	s	s	° ′ ″	″	″	″		1910+
491*	Lal. 9107	6.3	4 45 34.492	+ 2.7586	+0.0040	−0.0101	−13 55 16.56	+6.396	−0.384	−0.171	8	3.83
492	i Tauri	5.1	46 6.422	3.5012	0.0097	+0.0059	+18 41 14.14	6.352	0.487	−0.036	9	4.18
493	Bradley 673	5.2	46 8.133	2.7001	0.0038	+0.0031	−16 22 23.33	6.349	0.376	+0.062	9	4.15
494	π^4 Orionis	3.8	46 24.642	3.1935	0.0067	−0.0003	+ 5 27 6.48	6.326	0.444	−0.006	9	3.56
495	π^5 Orionis	3.9	4 49 33.673	+ 3.1235	+0.0060	−0.0002	+ 2 17 38.16	+6.064	−0.437	−0.003	8	3.88
496	Piazzi IV 236	5.5	4 49 55.676	+ 3.2433	+0.0068	−0.0011	+ 7 38 2.22	+6.034	−0.453	−0.028	10	3.45
497	ι Aurigæ	2.9	51 7.767	3.9023	0.0140	+0.0007	+33 1 27.33	5.934	0.546	−0.027	116 63	4.19 4.10
498	Paris 5658	5.8	51 16.059	2.6928	0.0037	−0.0002	−16 33 45.95	5.922	0.378	+0.062	8	3.86
499	Bradley 689	5.5	51 58.136	2.9537	0.0048	−0.0006	− 5 18 48.29	5.863	0.414	+0.004	8	3.34
500	Bradley 684	6.0	4 52 20.845	+ 3.6367	+0.0105	+0.0004	+23 48 31.30	+5.832	−0.510	−0.025	8	3.83
501	Bradley 683	5.0	4 53 8.646	+ 4.0637	+0.0160	+0.0042	+37 45 17.62	+5.765	−0.570	−0.104	10	3.60
502	Weisse$_1$ IV 1106	6.0	53 52.865	3.4016	0.0079	.....	+14 24 21.71	5.703	0.478	.....	8	3.54
503	Bradley 695	4.7	53 52.929	3.1078	0.0056	−0.0002	+ 1 34 35.05	5.703	0.437	−0.005	8	3.86
504	β Camelop	4.2	55 24.345	5.3241	0.0403	+0.0003	+60 18 42.09	5.575	0.748	−0.013	9	4.30
505	β Camelop. s. p	4.2	4 55 24	+ 5.3241	+0.0403	+0.0003	+60 18 42.05	+5.575	−0.748	−0.013	-- 39	--- 4.61
506	ϵ Aurigæ	var.	4 55 30.435	+ 4.2990	+0.0190	+0.0005	+43 41 27.58	+5.567	−0.604	−0.013	14 8	4.60 3.92
507	ζ Aurigæ	3.9	56 11.031	4.1873	0.0171	+0.0010	+40 56 42.61	5.510	0.589	−0.030	15 8	4.84 3.93
508	Groomb. 915	6.2	56 59.618	4.2030	0.0171	.....	+41 18 44.30	5.442	0.592	.....	8	3.39
509	ι Tauri	4.7	57 42.839	3.5786	0.0092	+0.0048	+21 27 43.17	5.381	0.505	−0.047	8	3.87
510	Bradley 691	5.3	4 58 18.727	+ 5.2037	+0.0356	−0.0003	+58 50 51.12	+5.331	−0.734	−0.007	8	3.83
511	Piazzi IV 289	5.0	4 58 30.174	+ 2.4328	+0.0032	+0.0065	−26 24 8.82	+5.315	−0.344	−0.085	9	4.03
512	11 Orionis	4.6	59 25.456	3.4249	0.0076	+0.0013	+15 16 45.55	5.237	0.484	−0.036	9 14	4.13 4.49
513	157 H^1. Cephei	6.5	59 45.68	20.833	1.339	+0.029	+85 50 38.76	5.209	2.936	−0.067	8	3.46
514	157 H^1. Cephei s. p	6.5	4 59 45.80	20.833	1.339	+0.029	+85 50 38.73	5.209	2.936	−0.067	8	3.79
515	Lac. 1704	5.6	5 0 9.429	+ 2.4838	+0.0032	+0.0033	−24 30 46.01	+5.175	−0.352	−0.007	9	3.55
516	η Aurigæ	3.3	5 0 12.029	+ 4.1994	+0.0163	+0.0027	+41 6 48.57	+5.171	−0.594	−0.075	22 8	5.69 3.91
517	Weisse$_2$ IV 1293	6.9	0 13.414	3.9368	0.0128	.....	+33 47 46.20	5.169	0.557	.....	8	3.99
518	Lal. 9579	6.0	0 24.214	3.0011	0.0047	.....	− 3 9 50.11	5.154	0.425	.....	8	3.54
519	Piazzi IV 254	5.4	1 0.647	7.5302	0.1054	+0.0040	+73 49 54.37	5.103	1.064	−0.032	8	3.55
520	Piazzi IV 254 s. p	5.4	5 1 0.533	+ 7.5302	+0.1054	+0.0040	+73 49 54.52	+5.103	−1.064	−0.032	8	3.88
521	ϵ Leporis	3.3	5 1 39.026	+ 2.5370	+0.0032	+0.0019	−22 29 29.80	+5.049	−0.360	−0.067	8	3.91
522	Weisse$_1$ IV 1379	6.1	3 13.547	2.7828	0.0038	.....	−12 36 25.94	4.915	0.395	.....	8	3.59
523	β Eridani	2.9	3 25.408	2.9545	0.0044	−0.0059	− 5 12 8.54	4.898	0.420	−0.079	9 13	4.10 4.42
524	Bradley 710	6.6	3 31.618	3.5377	0.0081	+0.0003	+19 44 36.56	4.890	0.502	−0.018	8	3.39
525	Piazzi IV 294	5.6	5 4 0.588	+ 4.4559	+0.0190	+0.0064	+46 51 5.59	+4.849	−0.632	−0.157	8	3.90
526	Weisse$_2$ IV 1421	6.0	5 4 5.889	+ 3.7597	+0.0102	.....	+27 55 0.17	+4.841	−0.534	.....	8	3.89
527	Bradley 716	5.4	4 22.469	3.2946	0.0062	+0.0050	+ 9 42 52.29	4.818	0.468	−0.006	8	3.92
528	B. D.+67° 371	7.1	4 48.573	6.1864	0.0553	.....	+67 22 25.24	4.781	0.878	.....	9	3.56
529	μ Aurigæ	4.8	7 15.998	4.1030	0.0133	−0.0015	+38 22 42.74	4.572	0.584	−0.074	22 8	5.73 3.90
530	19 H. Camelop	5.2	5 7 42.131	+ 9.8514	+0.1922	−0.0279	+79 7 47.71	+4.534	−1.401	+0.155	8 13	3.91 4.38
531	19 H. Camelop. s. p	5.2	5 7 42.037	+ 9.8514	+0.1922	−0.0279	+79 7 47.24	+4.534	−1.401	+0.155	8 16	3.85 3.17
532	μ Leporis	3.3	8 53.259	2.6911	0.0034	+0.0028	−16 18 41.52	4.434	0.384	−0.028	8	3.49
533	Bradley 729	6.2	9 13.585	2.8834	0.0039	+0.0003	− 8 15 12.04	4.405	0.412	−0.010	8	3.92
534	α Aurigæ	0.2	10 2.310	4.4193	0.0165	+0.0082	+45 54 24.96	4.335	0.631	−0.429	14 8	5.30 3.44
535	β Orionis	0.3	5 10 12.696	+ 2.8820	+0.0039	+0.0001	− 8 18 18.45	+4.321	−0.412	−0.001	99 66	4.18 4.46
536	λ Aurigæ	4.8	5 12 48.711	+ 4.1710	+0.0128	+0.0460	+40 1 8.81	+4.099	−0.597	−0.657	14 8	5.36 3.82
537	Carr. 727	6.6	13 12.24	20.077	0.947	.....	+85 35 57.56	4.065	2.868	.....	8	3.54
538	Carr. 727 s. p	6.6	13 12.00	20.077	0.947	.....	+85 35 57.60	4.065	2.868	.....	8	3.52
539	τ Orionis	3.7	13 14.104	2.9132	0.0038	−0.0011	− 6 56 28.13	4.062	0.418	−0.007	8 13	3.59 4.19
540	Bradley 741	5.1	5 13 52.011	+ 3.6017	+0.0074	+0.0021	+22 0 14.38	+4.008	−0.516	−0.089	8	3.94
541	Oeltzen 5729	6.8	5 13 56.826	+ 4.8855	+0.0216	.....	+54 9 35.18	+4.001	−0.700	.....	8	3.86
542	o Columbæ	4.9	14 14.257	2.1559	0.0031	+0.0065	−34 58 59.52	3.976	0.310	−0.346	8 9	3.50 3.45
543	Bradley 744	5.4	14 29.441	3.1298	0.0046	−0.0010	+ 2 30 10.69	3.954	0.449	−0.057	8	3.93
544*	Lal. 9986	5.9	14 50.283	2.6410	0.0032	+0.0267	−18 13 31.81	3.925	0.379	+0.037	8	3.40
545	Weisse$_1$ V 260	7.4	5 15 25.203	+ 3.3226	+0.0055	.....	+10 47 58.12	+3.875	−0.477	.....	8	3.97

501. Comp., 8m, 6″, n.

506. Var., 3m.4–4m.1, irregular.

535. Comp., 8m.0, 9″.5 s. pr.

[From observations in 1911–1918]

No.	Name	Magnitude	Right Ascension 1910.0	Annual Precession 1910.0	Secular Variation 1910.0	Annual Proper Motion	Declination 1910.0	Annual Precession 1910.0	Secular Variation 1910.0	Annual Proper Motion	Number of Observations	Mean Date
			h m s	s	s	s	° ′ ″	″	″	″		1910+
546	λ Leporis	4.3	5 15 25.686	+2.7633	+0.0034	0.0000	−13 16 9.17	+3.874	−0.397	+0.003	8	3.40
547	B. D.+70° 351	7.0	16 41.037	6.7076	0.0550	.....	+70 8 44.25	3.766	0.962	.....	9	3.53
548	Pulk. 55, 824	5.7	16 49.455	3.2650	0.0051	+0.0009	+ 8 20 23.84	3.754	0.469	0.000	8	4.01
549	σ Aurigæ	5.2	18 32.011	4.0740	0.0105	−0.0001	+37 18 7.17	3.607	0.586	−0.027	10	3.59
550	Lac. 1823	6.4	5 19 34.902	+2.4082	+0.0029	.....	−26 47 24.97	+3.517	−0.347	.....	8	3.87
551	γ Orionis	1.7	5 20 18.135	+3.2171	+0.0046	−0.0005	+ 6 16 7.50	+3.455	−0.463	−0.019	8 12	4.02 4.40
552	β Tauri	1.8	20 36.039	3.7884	0.0078	+0.0024	+28 31 54.84	3.429	0.546	−0.177	108 77	4.56 4.66
553	17 Camelop	5.8	21 39.910	5.6580	0.0291	+0.0008	+62 59 35.42	3.337	0.815	−0.001	8	3.52
554	Bradley 767	5.3	21 54.959	3.4978	0.0058	+0.0006	+17 53 7.35	3.316	0.504	−0.014	8	3.88
555	Piazzi V 102	6.4	5 22 53.151	+2.7927	+0.0032	+0.0014	−11 58 34.48	+3.232	−0.403	−0.054	8	3.46
556	Lal. 10313	6.1	5 23 46.387	+2.5540	+0.0029	.....	−21 27 4.90	+3.155	−0.369	.....	8	3.52
557	Lal. 10288	6.6	23 49.152	3.0713	0.0039	.....	− 0 3 12.01	3.151	0.443	.....	8	3.96
558	Weisse $_2$ V 590	6.2	23 57.429	3.8076	0.0074	.....	+29 6 54.84	3.139	0.550	.....	8	3.99
559	β Leporis	3.0	24 23.298	2.5702	0.0029	+0.0004	−20 49 51.38	3.102	0.372	−0.094	8 12	4.03 4.40
560	Lal. 10224	6.1	5 24 26.891	+4.2363	+0.0105	.....	+41 23 32.07	+3.097	−0.612	.....	8	3.97
561	Cape 80, 2445	6.6	5 25 39.264	+2.3038	+0.0028	.....	−30 11 17.61	+2.993	−0.333	.....	9	4.14
562	χ Aurigæ	4.9	26 52.064	3.9029	0.0075	+0.0005	+32 7 34.52	2.888	0.564	−0.016	12 8	4.55 3.54
563	δ Orionis	2.5	27 24.436	3.0641	0.0037	+0.0001	− 0 21 54.69	2.841	0.443	−0.003	75 58	4.80 4.76
564	Groomb. 966	6.4	27 40.869	8.0056	0.0674	−0.0009	+74 59 9.23	2.817	1.157	+0.019	8	3.86
565	Groomb. 966 s. P	6.4	5 27 40.854	+8.0056	+0.0674	−0.0009	+74 59 8.61	+2.817	−1.157	+0.019	7 8	3.17 3.46
566	ε Columbæ	3.9	5 28 1.015	+2.1273	+0.0029	+0.0022	−35 32 10.27	+2.788	−0.308	−0.049	9	4.15
567	19 Camelop	6.0	28 32.209	5.7985	0.0258	+0.0020	+64 5 49.84	2.743	0.838	−0.068	8	3.52
568	α Leporis	2.7	28 45.556	2.6452	0.0028	+0.0001	−17 53 10.39	2.724	0.383	+0.003	8 13	3.95 4.41
569	Bradley 793	5.3	29 32.473	3.1583	0.0038	−0.0019	+ 3 42 21.25	2.656	0.458	−0.021	8	3.98
570	φ^1 Orionis	4.5	5 29 52.683	+3.2925	+0.0042	−0.0001	+ 9 25 45.55	+2.627	−0.477	−0.008	8	3.47
571	ι Orionis	2.9	5 31 1.755	+2.9339	+0.0032	+0.0002	− 5 58 6.27	+2.527	−0.425	−0.004	8	3.56
572	ε Orionis	1.8	31 38.723	3.0434	0.0034	0.0000	− 1 15 32.02	2.474	0.441	−0.002	20 18	6.37 6.23
573	Weisse $_1$ V 718	6.1	32 4.174	3.3299	0.0041	.....	+10 58 47.52	2.437	0.483	.....	8	3.46
574	Dorpat 30, 611	5.6	32 11.817	2.9303	0.0031	−0.0003	− 6 7 14.76	2.426	0.425	−0.024	8	3.99
575	ζ Tauri	3.0	5 32 15.850	+3.5841	+0.0050	+0.0002	+21 5 17.81	+2.420	−0.520	−0.028	8	3.48
576	Groomb. 944	6.4	5 33 1.82	+18.727	+0.460	+0.016	+85 9 14.81	+2.354	−2.713	+0.004	25 30	4.44 4.56
577	Groomb. 944 s. P	6.4	33 1.56	18.727	0.460	+0.016	+85 9 14.90	2.354	2.713	+0.004	4 12	2.97 2.65
578	Weisse $_2$ V 957	7.0	34 21.083	3.6687	0.0051	.....	+24 10 28.00	2.238	0.532	.....	8	3.35
579	Lac. 1918	6.8	34 31.884	2.3881	0.0026	.....	−27 15 44.76	2.223	0.347	.....	9	4.07
580	Lal. 10726	6.2	5 35 18.239	+2.6434	+0.0027	.....	−17 53 57.20	+2.156	−0.384	.....	8	3.47
581	Bradley 797	6.2	5 35 23.500	+5.0827	+0.0136	+0.0029	+56 32 7.50	+2.148	−0.738	+0.028	8	3.94
582	ζ Orionis	2.0	36 12.975	3.0263	0.0031	+0.0005	− 1 59 22.43	2.077	0.440	−0.007	18 17	6.16 6.18
583	α Columbæ	2.8	36 23.344	2.1718	0.0027	+0.0003	−34 7 17.68	2.062	0.316	−0.035	8	3.54
584	Lac. 1962	6.2	38 45.696	2.2862	0.0026	−0.0003	−30 34 42.38	1.855	0.333	+0.008	8 7	3.92 3.65
585	ο Aurigæ	5.5	5 38 55.522	+4.6466	+0.0089	−0.0003	+49 47 16.62	+1.841	−0.675	−0.008	8 13	3.95 4.40
586	Lal. 10922	6.4	5 40 35.858	+2.5835	+0.0025	.....	−20 9 56.46	+1.695	−0.376	.....	8	3.46
587	γ Leporis	3.8	40 42.526	2.5215	0.0025	−0.0201	−22 28 39.97	1.685	0.367	−0.376	8	3.93
588	Bradley 830	5.9	41 34.855	3.4492	0.0036	+0.0007	+15 47 16.53	1.609	0.502	−0.010	8	3.34
589	Weisse $_2$ V 1262	7.2	41 40.007	3.8301	0.0046	.....	+29 37 35.44	1.602	0.557	.....	8 7	3.94 4.20
590	B. D.+9° 954	5.9	5 41 55.575	+3.2952	+0.0032	.....	+ 9 29 22.79	+1.579	−0.480	.....	8	3.48
591	130 Tauri	5.5	5 42 11.240	+3.4976	+0.0036	+0.0002	+17 41 45.63	+1.556	−0.509	−0.010	8	3.95
592	Bradley 827	6.9	42 36.147	4.1711	0.0056	−0.0003	+39 30 10.78	1.520	0.607	−0.024	8	3.50
593	μ Columbæ	5.2	42 39.147	2.2288	0.0025	−0.0001	−32 20 24.91	1.516	0.325	−0.026	9	3.67
594	ζ Leporis	3.7	42 52.581	2.7190	0.0025	−0.0012	−14 51 18.32	1.496	0.396	+0.002	8 12	3.99 4.37
595	κ Orionis	2.2	5 43 29.224	+2.8446	+0.0026	+0.0002	− 9 42 4.02	+1.443	−0.414	−0.005	21 19	6.21 6.08
596	Weisse $_1$ V 1048	6.0	5 44 6.580	+2.9765	+0.0026	.....	− 4 7 8.72	+1.389	−0.433	.....	8	3.93
597	ν Aurigæ	4.2	45 15.044	4.1572	0.0049	−0.0004	+39 7 22.23	1.289	0.605	+0.006	14 8	4.50 3.46
598	Paris 6859	5.6	45 31.062	2.7273	0.0024	−0.0028	−14 30 35.30	1.266	0.397	−0.036	8	3.48
599	δ Leporis	3.9	47 27.065	2.5633	0.0024	+0.0172	−20 53 13.31	1.097	0.374	−0.653	8 13	3.87 4.36
600	Bradley 848	4.5	5 47 40.140	+3.7699	+0.0035	+0.0009	+27 35 30.07	+1.078	−0.549	−0.018	8	3.35

571. Comp., 7ᵐ.3, 11″.5, s. f. 574. Comp., 10ᵐ, 5″, n. pr. 582. Comp., 4ᵐ.2, 2″.4, s. f. 598. Comp., 9ᵐ, 2″.5, s.

[From observations in 1911–1918]

No.	Name	Magnitude	Right Ascension 1910.0	Annual Precession 1910.0	Secular Variation 1910.0	Annual Proper Motion	Declination 1910.0	Annual Precession 1910.0	Secular Variation 1910.0	Annual Proper Motion	Number of Observations	Mean Date
			h m s	s	s	s	° ′ ″	″	″	″		1910+
601	β Columbæ	3.2	5 47 47.185	+ 2.1100	+0.0025	+0.0039	−35 48 5.39	+1.068	−0.308	+0.394	8	3.92
602	α Orionis	var.	50 17.909	3.2457	0.0025	+0.0019	+ 7 23 27.18	0.848	0.473	+0.008	112 51	4.44 4.49
603	B. D.+11° 975	6.1	51 47.674	3.3445	0.0025	.....	+11 30 35.76	0.718	0.488	.....	8	3.40
604	δ Aurigæ	3.9	52 6.943	4.9298	0.0047	+0.0098	+54 16 42.94	0.689	0.718	−0.126	8 12	3.51 4.05
605	η Leporis	3.8	5 52 18.293	+ 2.7350	+0.0022	−0.0028	−14 11 0.85	+0.673	−0.399	+0.132	8	3.91
606	B. D.+38° 1341	7.3	5 52 20	+ 4.1496	+0.0032	.....	+38 52 58.32	+0.671	−0.605	.....	-- 4	--- 7.19
607	Groomb. 1030	6.5	52 44.586	8.2688	0.0161	.....	+75 35 2.04	0.635	1.205	.....	9	4.19
608	Groomb. 1030 s. p.	6.5.	52 44.541	8.2688	0.0161	.....	+75 35 1.70	0.635	1.205	.....	6 8	2.89 3.56
609	β Aurigæ	2.1	52 55.525	4.4055	0.0034	−0.0044	+44 56 20.87	0.619	0.642	−0.005	10 8	3.85 3.56
610	θ Aurigæ	2.7	5 53 34.970	+ 4.0868	+0.0028	+0.0045	+37 12 25.46	+0.561	−0.596	−0.090	9 8	3.76 3.35
611	B. D.−18° 1247	6.9	5 53 35.954	+ 2.6368	+0.0022	.....	−18 3 53.96	+0.560	−0.384	.....	9	4.25
612	Bradley 870	5.2	54 11.859	3.0852	0.0022	−0.0008	+ 0 32 42.53	0.507	0.450	+0.001	8	3.61
613	Weisse$_2$ V 1660	6.8	54 19.309	3.9445	0.0026	.....	+33 7 51.41	0.496	0.575	.....	8	4.01
614	Bradley 874	5.1	54 47.868	2.8474	0.0022	+0.0020	− 9 33 50.20	0.455	0.415	−0.053	8	3.56
615	Bradley 871	6.3	5 56 15.466	+ 3.6232	+0.0021	−0.0008	+22 23 56.53	+0.327	−0.528	−0.025	10	3.51
616	Bradley 868	6.1	5 56 48.588	+ 4.3149	+0.0022	+0.0113	+42 54 54.09	+0.279	−0.629	−0.141	8	3.41
617	Bradley 864	6.3	57 20.802	4.7571	0.0022	+0.0015	+51 34 35.05	0.232	0.694	−0.044	8	3.98
618	μ Orionis	4.2	57 25.822	3.2997	0.0020	+0.0012	+ 9 38 52.03	0.225	0.481	−0.029	8	3.46
619	Lac. 2096	5.9	57 33.689	2.4375	0.0022	.....	−25 25 7.54	0.213	0.355	.....	8	3.90
620	1 Geminorum	4.3	5 58 38.893	+ 3.6472	+0.0018	−0.0006	+23 16 7.38	+0.118	−0.532	−0.108	8	3.97
621	Lal. 11544	7.0	6 1 42.941	+ 3.7444	+0.0013	.....	+26 41 31.42	−0.150	−0.546	.....	8	3.94
622	θ Leporis	4.7	2 4.851	2.7163	0.0020	−0.0005	−14 55 36.06	0.182	0.396	+0.023	8	3.37
623	ν Orionis	4.4	2 25.934	3.4251	0.0015	+0.0006	+14 46 47.10	0.213	0.499	−0.036	8 12	3.96 4.36
624	Lal. 11630	6.8	2 26.654	2.9947	0.0018	.....	− 3 19 51.87	0.214	0.436	.....	8	3.44
625	Rad. 90, 1512	6.1	6 3 9.031	+ 2.5380	+0.0020	.....	−21 48 4.78	−0.276	−0.370	.....	8	3.89
626	36 Camelop	5.4	6 3 47.769	+ 6.0371	−0.0028	+0.0019	+65 44 14.46	−0.332	−0.880	−0.027	9	3.49
627	Bradley 886	6.1	4 42.891	4.5950	−0.0004	+0.0022	+48 43 48.53	0.412	0.670	−0.062	8	3.49
628	Bradley 900	5.7	6 41.431	3.5538	+0.0009	+0.0004	+19 48 40.21	0.585	0.518	−0.014	12 11	3.74 3.71
629	22 H. Camelop	4.7	8 55.747	6.6164	−0.0103	+0.0022	+69 21 9.68	0.781	0.964	−0.109	8 13	3.38 4.06
630	22 H. Camelop. s. p.	4.7	6 8 55.733	+ 6.6164	−0.0103	+0.0022	+69 21 9.97	−0.781	−0.964	−0.109	11	3.68
631	η Geminorum	var.	6 9 26.606	+ 3.6265	+0.0004	−0.0045	+22 32 0.54	−0.826	−0.528	−0.017	8	3.88
632	Bradley 904	6.9	9 35.054	4.0489	−0.0006	−0.0051	+36 10 34.03	0.838	0.589	0.000	10 9	3.51 3.46
633	Bradley 893	5.3	9 36.928	5.5364	−0.0057	+0.0006	+61 32 43.54	0.841	0.806	−0.003	8	3.97
634	Bradley 920	4.1	10 27.905	2.9264	+0.0015	−0.0003	− 6 14 48.18	0.915	0.426	−0.021	8	4.02
635	Lal. 11947	6.3	6 11 14.887	+ 3.1004	+0.0012	.....	+ 1 11 52.86	−0.984	−0.451	.....	8	3.42
636	Bradley 917	6.3	6 11 29.220	+ 3.6604	+0.0001	+0.0009	+23 46 19.19	−1.004	−0.532	−0.004	8	3.99
637	2 Lyncis	4.4	11 40.914	5.2977	−0.0060	−0.0007	+59 2 40.23	1.022	0.771	+0.021	8 7	3.48 3.55
638	Groomb. 1004	6.6	12 29.74	26.625	−0.477	+0.028	+86 45 25.65	1.092	3.876	−0.097	8	3.99
639	Groomb. 1004 s. p.	6.6	12 29.11	26.625	−0.477	+0.028	+86 45 25.58	1.092	3.876	−0.097	6 8	4.15 3.48
640	Weisse$_1$ VI 272	6.0	6 12 58.171	+ 3.4155	+0.0004	.....	+14 24 59.58	−1.134	−0.497	.....	9	3.61
641	κ Columbæ	4.5	6 13 20.941	+ 2.1345	+0.0020	−0.0007	−35 6 35.65	−1.167	−0.310	+0.075	8	3.96
642	Lal. 12060	5.3	13 41.396	2.6702	+0.0016	−0.0009	−16 46 54.57	1.197	0.388	−0.009	9	3.65
643	7 Monocerotis	5.1	15 22.639	2.8902	+0.0013	−0.0005	− 7 47 4.94	1.344	0.420	−0.002	8	3.94
644	Weisse$_2$ VI 340	7.1	16 18.040	3.8423	−0.0012	.....	+30 0 22.36	1.425	0.558	.....	8	3.35
645	ζ Canis Maj	3.1	6 16 51.443	+ 2.3023	+0.0019	+0.0006	−30 1 22.77	−1.473	−0.334	+0.001	8	3.99
646	Lac. 2232	7.4	6 17 27.715	+ 2.3147	+0.0018	.....	−29 37 38.12	−1.526	−0.336	.....	9	3.64
647	μ Geminorum	3.2	17 30.914	3.6261	−0.0006	+0.0044	+22 33 37.07	1.531	0.526	−0.113	54 34	4.14 4.20
648	ψ^1 Aurigæ	5.1	17 58.001	4.6234	−0.0053	+0.0013	+49 20 4.64	1.570	0.671	−0.005	8	4.05
649	Rad. 45, 1707	6.0	17 58.823	6.8527	−0.0238	.....	+70 35 7.71	1.571	0.995	.....	8	3.96
650	β Canis Maj	2.0	6 18 44.141	+ 2.6421	+0.0015	−0.0005	−17 54 38.78	−1.637	−0.383	0.000	14 19	5.70 5.71
651	δ Columbæ	4.0	6 18 49.377	+ 2.1946	+0.0019	−0.0030	−33 23 26.33	−1.645	−0.318	−0.053	9	3.58
652	8 Monocerotis	4.5	18 59.874	3.1806	+0.0005	−0.0008	+ 4 38 21.48	1.660	0.461	−0.003	8 9	4.02 3.82
653	Weisse$_1$ VI 466	6.1	19 6.957	3.2818	+0.0003	.....	+ 8 55 56.27	1.670	0.476	.....	9	3.61
654	Groomb. 1156	7.1	19 57.274	4.2717	−0.0040	.....	+42 0 36.46	1.743	0.620	.....	8	3.62
655	Pulk. 55, 1045	5.4	6 19 58.376	+ 2.8021	+0.0013	−0.0035	−11 28 52.26	−1.745	−0.406	−0.047	9	4.22

602. Var., 1^m.0–1^m.4, irregular.
610. Comp., 7^m.5, 2″.5, n. pr.
627. Comp., 6^m.8, 7″.6, n.
631. Var., 3^m.3–4^m.2; comp., 8^m.8, 1″.2, n. pr.
632. Comp., 7^m.5, 11″, s. pr.
652. Comp., 6^m.5, 13″.7, n. f.

[From observations in 1911–1918]

No.	Name	Magnitude	Right Ascension 1910.0	Annual Precession 1910.0	Secular Variation 1910.0	Annual Proper Motion	Declination 1910.0	Annual Precession 1910.0	Secular Variation 1910.0	Annual Proper Motion	Number of Observations	Mean Date
			h m s	s	s	s	° ′ ″	″	″	″		1910+
656	B. D.+39° 1632	7.8	6 20 46	+ 4.1513	−0.0035	.....	+39 1 37.55	−1.814	−0.602	.....	.. 4	... 7.19
657	Lal. 12343	5.7	22 6.078	3.0388	+0.0007	+0.0004	− 1 27 13.13	1.930	0.440	−0.030	8	3.54
658	Lal. 12356	6.3	23 17.089	3.4612	−0.0007	.....	+16 17 45.16	2.033	0.501	.....	8	3.98
659	10 Monocerotis	5.0	23 30.837	2.9631	+0.0008	−0.0002	− 4 42 21.82	2.053	0.429	+0.014	8	3.42
660	ν Geminorum	4.1	6 23 37.111	+ 3.5634	−0.0012	−0.0006	+20 16 11.19	−2.062	−0.516	−0.021	8 13	3.93 4.39
661	Weisse$_2$ VI 601	6.8	6 24 41.217	+ 3.7871	−0.0024	−0.0036	+28 16 20.30	−2.155	−0.548	+0.016	8	3.47
662	Carr. 910	6.4	25 30.321	12.7594	−0.1803	.....	+82 11 34.43	2.226	1.848	.....	8	4.01
663	Carr. 910 s. p	6.4	25 30.371	12.7594	−0.1803	.....	+82 11 34.50	2.226	1.848	.....	8	3.98
664	Lal. 12509	6.7	25 38.499	2.5216	+0.0015	.....	−22 31 52.93	2.238	0.364	.....	8	3.95
665	B. D.+47° 1310	7.1	6 26 5.035	+ 4.4957	−0.0072	.....	+46 59 14.59	−2.277	−0.650	.....	10	3.51
666	Groomb. 1173	6.8	6 26 45.608	+ 4.8041	−0.0100	.....	+52 31 46.01	−2.335	−0.695	.....	9	4.23
667	8 Lyncis	6.0	29 27.875	5.5198	−0.0192	−0.0273	+61 33 39.43	2.570	0.797	−0.281	8 13	3.38 4.06
668	23 H. Camelop	5.6	30 53.320	10.3336	−0.1290	−0.0269	+79 39 47.55	2.694	1.492	−0.616	9 8	4.13 3.92
669	23 H. Camelop. s. p	5.6	30 53.345	10.3336	−0.1290	−0.0269	+79 39 48.09	2.694	1.492	−0.616	6 15	2.92 3.07
670	ξ^2 Canis Maj	4.5	6 31 16.989	+ 2.5135	+0.0014	+0.0004	−22 53 35.29	−2.728	−0.362	+0.013	8	3.52
671	Piazzi VI 171	5.5	6 32 9.452	+ 2.9536	+0.0005	+0.0002	− 5 8 9.30	−2.804	−0.425	−0.011	8	3.95
672	51 Aurigæ	5.7	32 25.335	4.1620	−0.0063	−0.0021	+39 28 14.88	2.826	0.600	−0.116	16 8	5.33 3.52
673	Bradley 975	5.8	32 26.360	2.6277	+0.0012	−0.0016	−18 35 7.97	2.828	0.378	+0.005	10	3.62
674	γ Geminorum	1.9	32 30.746	3.4638	−0.0017	+0.0031	+16 28 35.94	2.834	0.499	−0.047	82 33	4.69 4.63
675	Lal. 12714	6.4	6 32 58.200	+ 3.1368	−0.0002	.....	+ 2 46 56.04	−2.874	−0.451	.....	8	3.96
676	Weisse$_2$ VI 900	6.3	6 33 40.403	+ 3.6096	−0.0026	.....	+22 6 38.31	−2.935	−0.519	.....	8	3.58
677	ν Argûs	3.2	35 0	1.8358	+0.0013	+0.0001	−43 6 59.45	3.050	0.263	−0.020	.. 14	... 4.22
678	S Monocerotis	4.7	36 1.253	3.3048	−0.0012	+0.0002	+ 9 58 46.27	3.138	0.474	−0.007	8 13	4.00 4.44
679	Weisse$_1$ VI 999	6.4	36 17.410	3.3311	−0.0013	.....	+11 5 14.40	3.161	0.478	.....	8	3.38
680*	B. D.+39° 1713	7.0	6 36 22	+ 4.1404	−0.0071	−0.0022	+38 58 47.80	−3.168	−0.595	−0.097	.. 4	... 7.19
381	Weisse$_2$ VI 1001	6.9	6 36 52.642	+ 3.9176	−0.0053	.....	+32 38 44.23	−3.212	−0.562	.....	8	3.95
682	ϵ Geminorum	3.2	38 23.675	3.6932	−0.0038	0.0000	+25 13 14.97	3.343	0.529	−0.020	104 37	4.38 5.32
683	Bradley 976	5.5	39 9.233	5.1210	−0.0196	+0.0036	+57 15 48.81	3.408	0.734	−0.042	8	3.43
684	B. D.+39° 1736	7.2	39 47	4.1409	−0.0079	.....	+39 3 48.72	3.462	0.593	.....	.. 4	... 7.19
685	Lac. 2417	6.8	6 40 13.586	+ 2.4465	+0.0014	.....	−25 26 37.70	−3.500	−0.350	.....	10 9	3.58 3.54
686	ξ Geminorum	3.4	6 40 14.224	+ 3.3761	−0.0019	−0.0078	+12 59 34.91	−3.501	−0.483	−0.201	52 44	3.84 3.85
687	ψ^5 Aurigæ	5.3	40 15.144	4.3285	−0.0099	+0.0007	+43 40 4.74	3.503	0.620	+0.158	14 8	5.35 4.03
688	Bradley 984	5.3	40 47.921	4.5795	−0.0130	−0.0009	+48 53 7.78	3.550	0.656	+0.002	8	3.55
689	α Canis Maj	−1.6	41 10.708	2.6807	+0.0009	−0.0367	−16 35 38.93	3.583	0.383	−1.206	13	5.53
690	Bradley 991	5.8	6 41 37.877	+ 3.2733	−0.0015	−0.0005	+ 8 40 58.85	−3.622	−0.468	−0.003	8	3.48
691	18 Monocerotis	4.7	6 43 10.026	+ 3.1301	−0.0008	−0.0004	+ 2 30 40.51	−3.753	−0.447	−0.025	8	3.96
692	Bradley 1001	6.0	43 10.122	2.5708	+0.0011	−0.0005	−20 55 3.68	3.754	0.357	−0.002	8	3.46
693	43 Camelop	5.1	44 0.227	6.4889	−0.0499	+0.0019	+68 59 38.87	3.826	0.927	+0.009	8 12	3.97 4.36
694	43 Camelop. s. p	5.1	44 0.286	6.4889	−0.0499	+0.0019	+68 59 38.93	3.826	0.927	+0.009	8 9	3.53 3.75
695	ψ^7 Aurigæ	5.0	6 44 24.123	+ 4.2487	−0.0102	−0.0016	+41 53	−3.859	−0.606	−0.135	7 ..	7.57 ...
696	Bradley 997	5.7	6 44 38.949	+ 3.4561	−0.0029	−0.0013	+16 18 20.46	−3.881	−0.493	−0.013	8	3.98
697	Lal. 13143	5.6	44 44.365	3.0228	−0.0004	+0.0006	− 2 10 11.46	3.888	0.431	+0.029	8	3.44
698	Pulk. 55,1121 *mean*	5.3	44 52.868	2.7202	+0.0007	−0.0003	−15 2 33.89	3.901	0.387	−0.019	8	3.96
699	Weisse$_2$ VI 1310	6.6	46 25.038	3.7045	−0.0051	−0.0012	+25 46 9.90	4.033	0.527	+0.062	8	3.47
700	κ Canis Maj	3.8	6 46 28.694	+ 2.2417	+0.0014	−0.0008	−32 24 14.45	−4.038	−0.318	+0.001	8	3.99
701	B. D.+39° 1771	6.1	6 46 50	+ 4.1313	−0.0095	.....	+38 58 38.15	−4.068	−0.588	.....	.. 4	... 7.19
702	θ Geminorum	3.6	46 51.426	3.9575	−0.0076	+0.0005	+34 4 13.46	4.070	0.563	−0.054	26 20	6.16 6.04
703	24 H. Camelop	4.8	46 57.253	8.7825	−0.1283	+0.0250	+77 5 37.27	4.078	1.252	−0.014	9	3.48
704	24 H. Camelop s. p	4.8	46 57.260	8.7825	−0.1283	+0.0250	+77 5 37.49	4.078	1.252	−0.014	8	4.03
705	Groomb. 1237	6.0	6 48 44.989	+ 4.3350	−0.0125	.....	+44 1 22.62	−4.232	−0.616	.....	8	3.98
706	15 Lyncis	4.5	6 49 29.134	+ 5.2062	−0.0268	+0.0007	+58 32 29.44	−4.295	−0.740	−0.134	8 12	4.00 4.38
707	θ Canis Maj	4.2	50 0.420	2.7970	+0.0004	−0.0093	−11 55 31.69	4.340	0.396	−0.015	9	4.17
708	Pulk. 55, 1134	5.9	51 28.605	3.3040	−0.0024	−0.0017	+10 4 25.20	4.465	0.468	−0.011	8	3.42
709	ι Canis Maj	4.4	52 7.346	2.6760	+0.0007	−0.0001	−16 56 13.43	4.520	0.378	+0.011	8	3.95
710	Bradley 1010	6.2	6 52 54.935	+ 4.0954	−0.0104	−0.0029	+38 10 35.03	−4.587	−0.579	−0.128	8	3.54

664. Comp., 8m.8, 2″.7, s. f.
666. Comp., 7m.7, 4″.4, n. pr.
673. Comp., 8m.0, 17″, s. pr.
678. Comp., 8m.8, 2″.9, s. pr.
689. The position of α Canis Majoris is for the center of its orbit.
698. Double, 6m.0, 8m.7, 1″, n. pr. (Burnham).
706. Double, 4m.9, 6m.2, 0″.7.

[From observations in 1911–1918]

No.	Name	Magnitude	Right Ascension 1910.0	Annual Precession 1910.0	Secular Variation 1910.0	Annual Proper Motion	Declination 1910.0	Annual Precession 1910.0	Secular Variation 1910.0	Annual Proper Motion	Number of Observations	Mean Date
			h m s	s	s	s	° ′ ″	″	″	″		1910+
711	Weisse 1 VI 1575	6.0	6 54 12.933	+ 3.1571	−0.0016	------	+ 3 43 29.27	−4.698	−0.446	-----	8	3.96
712	ε Canis Maj	1.6	55 5.272	2.3575	+0.0013	+0.0001	−28 50 57.09	4.772	0.332	−0.001	19	6.10
713	Cape 80, 3334	6.4	55 16.981	2.2966	+0.0013	------	−30 52 29.43	4.789	0.323	-----	8	4.02
714	Weisse 1 VI 1650	5.8	56 4.232	2.8838	−0.0002	------	− 8 16 51.40	4.856	0.406	-----	8	3.42
715	ω Geminorum	5.2	6 56 55.746	+ 3.6586	−0.0061	−0.0003	+24 20 39.86	−4.929	−0.515	−0.014	8	3.98
716	Lac. 2570	5.8	6 57 23.895	+ 2.4664	+0.0011	−0.0018	−25 5 15.63	−4.968	−0.346	+0.019	9 8	3.37 3.43
717	Groomb. 1256	6.5	58 4.668	5.3075	−0.0340	------	+59 56 9.50	5.026	0.747	-----	8	4.00
718	22 Canis Maj	3.7	58 7.996	2.3903	+0.0012	−0.0008	−27 48 19.74	5.030	0.335	+0.001	8	3.96
719	51 H. Cephei	5.3	58 39.30	29.433	−2.811	−0.048	+87 11 31.00	5.074	4.149	−0.037	31 37	4.37 4.58
720	51 H. Cephei s. p	5.3	6 58 39.07	+29.433	−2.811	−0.048	+87 11 31.23	−5.074	−4.149	−0.037	43 67	5.58 4.80
721	ζ Geminorum	var.	6 58 46.248	+ 3.5611	−0.0053	−0.0003	+20 42 10.63	−5.084	−0.500	−0.008	45 39	3.82 3.88
722	o^2 Canis Maj	3.1	59 15.936	2.5054	+0.0010	−0.0005	−23 42 4.88	5.126	0.351	−0.006	9	3.46
723	γ Canis Maj	4.1	6 59 41.171	2.7144	+0.0004	−0.0001	−15 29 59.69	5.162	0.380	−0.014	8	3.99
724	Lal. 13773	6.2	7 0 57.015	2.5543	+0.0009	------	−21 53 42.59	5.268	0.357	-----	9	3.53
725	Weisse 2 VI 1775	6.5	7 2 19.089	+ 3.9400	−0.0103	------	+33 58 25.65	−5.384	−0.551	-----	8	3.97
726	Dorpat 30,818 *mean*	5.3	7 2 27.089	+ 2.8187	−0.0001	−0.0012	−11 9 17.52	−5.395	−0.394	−0.016	8	3.41
727	Pulk. 55, 1157	5.9	2 57.530	3.2444	−0.0028	+0.0009	+ 7 36 46.87	5.438	0.453	−0.025	8	4.00
728	B. D.+38° 1693	7.8	3 4	4.1049	−0.0129	----	+38 45 16.01	5.447	0.574	-----	-- 4	--- 7.19
729	45 Geminorum	5.6	3 12.330	3.4431	−0.0046	−0.0007	+16 4 29.70	5.459	0.481	−0.111	8	4.04
730	Groomb. 1262	6.4	7 3 29.618	+ 7.0202	−0.0928	------	+71 57 50.96	−5.483	−0.982	-----	9	3.48
731	Groomb. 1262 s. p	6.4	7 3 29.577	+ 7.0202	−0.0928	------	+71 57 51.42	−5.483	−0.982	-----	8	4.00
732	δ Canis Maj	2.0	4 43.863	2.4396	+0.0011	−0.0004	−26 14 59.46	5.587	0.339	+0.002	15	5.53
733	63 Aurigæ	5.1	5 27.966	4.1283	−0.0138	+0.0041	+39 28 5.22	5.649	0.575	−0.003	15 8	5.71 3.95
734	Bradley 1041	5.0	5 45.446	2.9808	−0.0011	0.0000	− 4 5 44.99	5.673	0.414	+0.217	9	4.22
735	Bradley 1034	5.6	7 5 48.162	+ 3.7257	−0.0081	−0.0013	+27 0 17.99	−5.677	−0.519	−0.049	8	3.55
736	Groomb. 1272	5.7	7 6 22.459	+ 4.6872	−0.0244	+0.0020	+51 34 43.84	−5.725	−0.652	+0.003	9	3.63
737	Lal. 13850	6.6	6 30.351	4.4827	−0.0203	----	+47 45 33.09	5.736	0.624	-----	8	4.06
738	Bradley 1045	5.4	6 47.574	3.0691	−0.0017	−0.0015	− 0 9 10.71	5.760	0.426	−0.004	8	4.00
739	22 Monocerotis	4.1	7 16.054	3.0649	−0.0017	+0.0002	− 0 20 35.47	5.800	0.425	+0.011	8	3.43
740	51 Geminorum	5.3	7 8 12.177	+ 3.4464	−0.0051	+0.0008	+16 18 44.17	−5.878	−0.478	−0.050	8 14	3.97 4.48
741	B. D.+12° 1469	5.8	7 9 31.539	+ 3.3499	−0.0043	−0.0041	+12 16 16.25	−5.988	−0.464	−0.012	8	3.46
742	64 Aurigæ	5.8	11 46.775	4.1794	−0.0162	−0.0010	+41 2 38.50	6.176	0.577	0.000	14 8	5.61 3.95
743	25 H. Camelop	5.1	12 11.784	12.8388	−0.5294	+0.0027	+82 35 14.27	6.212	1.777	−0.045	15 19	5.29 5.26
744	25 H. Camelop. s. p	5.1	12 11.668	12.8388	−0.5294	+0.0027	+82 35 14.33	6.212	1.777	−0.045	23	6.17
745	B. D.+38° 1731	7.0	7 12 45	+ 4.0947	−0.0149	------	+38 50 10.33	−6.256	−0.564	-----	-- 4	--- 7.19
746	λ Geminorum	3.6	7 12 55.231	+ 3.4534	−0.0057	−0.0033	+16 42 12.01	−6.271	−0.476	−0.048	78 39	3.98 3.86
747	Weisse 1 VII 312	6.4	13 8.364	2.9276	−0.0010	------	− 6 31 7.13	6.289	0.402	-----	8	3.95
748	π Argûs	2.7	13 57	2.1197	+0.0010	−0.0007	−36 56 7.81	6.358	0.290	−0.002	-- 13	--- 3.93
749	Weisse 1 VII 350	6.1	14 40.121	3.1368	−0.0026	------	+ 2 54 22.35	6.416	0.430	----	8	3.45
750	δ Geminorum	3.5	7 14 44.876	+ 3.5878	−0.0075	−0.0013	+22 8 55.16	−6.423	−0.493	−0.017	9	4.20
751	*R* Canis Maj	var.	7 15 23.760	+ 2.7045	+0.0002	+0.0128	−16 13 33.62	−6.477	−0.370	−0.104	10	3.55
752	19 Lyncis	5.6	15 31.614	4.9091	−0.0337	+0.0002	+55 27 6.73	6.487	0.674	−0.038	8	4.06
753	Bradley 1063	5.2	16 1.839	4.0222	−0.0144	−0.0066	+36 55 49.89	6.529	0.552	−0.041	8	4.06
754	Bradley 1065	5.2	16 38.215	3.5474	−0.0072	−0.0043	+20 36 50.86	6.579	0.486	−0.033	8	3.60
755	Lac. 2747	5.8	7 17 15.659	+ 2.4356	+0.0010	------	−26 47 40.31	−6.631	−0.332	-----	8	4.00
756	66 Aurigæ	5.3	7 17 54.608	+ 4.1619	−0.0174	+0.0001	+40 50 47.17	−6.684	−0.569	−0.024	15 8	5.62 4.02
757*	Rad. 45, 1928	7.4	19 5.487	9.4667	−0.2701	−0.015	+78 52 23.29	6.781	1.296	−0.10	8	3.45
758*	Rad. 45, 1928 s. p	7.4	19 5.444	9.4667	−0.2701	−0.015	+78 52 23.40	6.781	1.296	−0.10	8	3.96
759	ι Geminorum	3.9	20 8.210	3.7395	−0.0104	−0.0086	+27 58 38.96	6.867	0.509	−0.090	65 19	3.84 3.45
760	η Canis Maj	2.4	7 20 32.051	+ 2.3734	+0.0011	−0.0007	−29 7 37.68	−6.900	−0.322	+0.004	8	3.41
761	Lal. 14451	5.8	7 21 0.212	+ 2.7698	−0.0002	−0.0140	−13 34 27.81	−6.942	−0.376	+0.005	8	3.95
762	B. D.+38° 1760	7.0	21 28	4.0816	−0.0167	------	+38 50 50.91	6.976	0.555	-----	-- 4	--- 7.19
763	Groomb. 1308	5.8	21 31.343	6.2774	−0.0858	−0.0005	+68 39 2.54	6.982	0.855	−0.044	8	4.00
764	Groomb. 1308 s. p	5.8	21 31.285	6.2774	−0.0858	−0.0005	+68 39 2.68	6.982	0.855	−0.044	8	4.02
765	β Canis Min	3.1	7 22 16.170	+ 3.2589	−0.0042	−0.0034	+ 8 28 16.31	−7.042	−0.442	−0.043	80 63	4.47 4.58

712. Comp., 9^m, 7″.8, s. f.
721. Var. $3^m.7$–$4^m.3$.
726. Double, $5^m.4$, 8^m, 0″.5, s. f.
750. Comp., 8^m, 7″, s. pr.
751. Var. $5^m.8$–$6^m.4$.
752. Comp., $6^m.5$, 14″.6 n. pr.

[From observations in 1911–1918]

No.	Name	Magnitude	Right Ascension 1910.0	Annual Precession 1910.0	Secular Variation 1910.0	Annual Proper Motion	Declination 1910.0	Annual Precession 1910.0	Secular Variation 1910.0	Annual Proper Motion	Number of Observations	Mean Date
			h m s	s	s	s	° ′ ″	″	″	″		1910+
766	Paris 9170	5.5	7 23 10.439	+2.5447	+0.0007	+0.0002	−22 54 16.12	−7.116	−0.344	+0.007	9 10	3.51 3.47
767	γ Canis Min	4.6	23 15.728	3.2728	−0.0045	−0.0043	+ 9 6 30.10	7.124	0.443	+0.008	8	3.95
768	ρ Geminorum	4.2	23 19.469	3.8519	−0.0128	+0.0117	+31 57 51.18	7.129	0.522	+0.183	14 9	5.16 3.82
769	Bradley 1082	5.1	24 12.871	3.7385	−0.0110	−0.0021	+28 6 8.55	7.201	0.506	−0.040	8	4.02
770	6 Canis Min	4.8	7 24 47.211	+3.3418	−0.0054	+0.0002	+12 11 35.58	−7.248	−0.451	−0.019	8	3.47
771	B. D.+39° 1958	6.5	7 25 49	+4.0828	−0.0177	.....	+39 5 9.60	−7.333	−0.551	.....	-- 4	--- 7.19
772	σ Argûs	3.3	26 22	1.9090	+0.0004	−0.0058	−43 7 7.52	7.377	0.256	+0.180	-- 4	--- 7.46
773	Weisse$_1$ VII 733	6.4	26 24.532	2.9630	−0.0016	.....	− 5 2 15.34	7.380	0.398	.....	8	3.95
774	Pulk. 55, 1217	5.6	26 37.077	3.4588	−0.0070	+0.0026	+17 16 40.59	7.397	0.466	−0.081	8	3.38
775	α^1 Geminorum	2.8	7 28 51.176	+3.8482	−0.0137	−0.014†	+32 5 7.60	−7.579	−0.516	−0.11†	8	3.98
776	α^2 Geminorum	2.0	7 28 51.420	+3.8482	−0.0137	−0.014†	+32 5 11.55	−7.579	−0.516	−0.11†	23 20	6.16 6.00
777	Rad. 45, 1986	5.8	29 59.709	4.3681	−0.0254	−0.0009	+46 22 45.47	7.671	0.585	−0.046	8	3.44
778	Weisse$_1$ VII 901	6.4	31 55.696	2.8972	−0.0013	.....	− 8 6 41.50	7.827	0.386	.....	8	3.98
779	Groomb. 1336	6.6	32 4.543	4.7720	−0.0375	.....	+54 6 20.30	7.839	0.637	.....	8	3.94
780	B. D.+33° 1560	6.9	7 32 31.866	+3.8825	−0.0150	.....	+33 23 23.84	−7.876	−0.517	.....	8 8	3.38 3.37
781	Paris 9396	5.7	7 32 43.658	+2.6375	+0.0003	−0.0009	−19 30 4.69	−7.891	−0.350	+0.009	8	4.02
782*	Weisse$_1$ VII 907	6.7	32 46.341	3.3844	−0.0066	+0.001	+14 14 47.84	7.895	0.450	−0.08	8	3.46
783	25 Monocerotis	5.2	32 48.143	2.9886	−0.0020	−0.0047	− 3 54 34.49	7.897	0.397	+0.018	8 12	4.05 4.42
784	o Geminorum	4.9	33 17.518	3.9252	−0.0160	−0.0022	+34 47 28.63	7.937	0.522	−0.122	15 1	7.45 6.10
785	Bradley 1093	6.2	7 33 23.051	+4.9830	−0.0450	−0.0008	+57 17 20.58	−7.944	−0.664	−0.017	8	3.54
786	α Canis Min	0.5	7 34 35.170	+3.1894	−0.0042	−0.0467	+ 5 27 15.82	−8.041	−0.422	−1.029	25 23	6.15 6.06
787	24 Lyncis	5.0	35 23.786	5.1005	−0.0503	−0.0039	+58 55 18.84	8.105	0.677	−0.061	8 10	3.98 4.43
788	Weisse$_2$ VII 955	6.2	35 35.205	3.5969	−0.0101	+0.0011	+23 13 37.42	8.120	0.476	+0.007	8	4.04
789	Bradley 1098	6.0	38 4.328	5.7619	−0.0796	+0.0071	+65 40 17.91	8.319	0.760	+0.012	8	3.47
790	Bradley 1100	6.4	7 38 18.920	+5.4627	−0.0665	−0.0047	+63 2 54.67	−8.338	−0.721	−0.062	8	3.94
791	Weisse$_1$ VII 1095	6.4	7 38 28.199	+3.0811	−0.0031	.....	+ 0 24 10.55	−8.350	−0.405	.....	8 8	3.39 3.38
792*	Weisse$_2$ VII 1029	6.8	38 49.245	4.0836	−0.0207	+0.005	+39 47 17.71	8.378	0.537	−0.68	9 8	3.57 3.53
793	κ Geminorum	3.7	39 0.879	3.6285	−0.0111	−0.0016	+24 36 51.80	8.394	0.477	−0.062	8	3.98
794	β Geminorum	1.2	39 48.356	3.7234	−0.0130	−0.0471	+28 14 38.77	8.457	0.488	−0.057	81 77	4.70 4.80
795	Bradley 1118	4.8	7 39 54.308	+2.4231	+0.0011	−0.0005	−28 11 47.66	−8.464	−0.317	+0.012	9	3.53
796	Bradley 1115	5.0	7 40 54.805	+3.4824	−0.0088	−0.0048	+18 43 48.42	−8.544	−0.456	−0.069	8	4.03
797	π Geminorum	5.3	41 42.262	3.8755	−0.0165	+0.0003	+33 38 13.76	8.607	0.507	−0.040	8	3.55
798	4 Puppis	5.1	41 48.178	2.7639	−0.0004	−0.0012	−14 20 40.75	8.614	0.360	+0.003	8	3.98
799	Lal. 15177	7.0	43 16.359	3.1912	−0.0047	.....	+ 5 38 0.04	8.730	0.415	.....	8 9	3.42 3.36
800	Åbo 30, 161	5.8	7 43 20.429	+2.5793	+0.0006	−0.0007	−22 17 51.71	−8.736	−0.335	+0.002	8	4.04
801	Weisse$_2$ VII 1183	6.8	7 44 18.017	+3.6707	−0.0126	.....	+26 29 22.60	−8.811	−0.477	.....	8	3.46
802	ξ Argûs	3.5	45 30.511	2.5235	+0.0009	−0.0005	−24 38 0.40	8.906	0.326	+0.001	9	4.15
803	Bradley 1129	5.5	45 37.255	2.7066	−0.0001	+0.0038	−16 59 55.76	8.915	0.350	−0.114	8 9	3.45 3.50
804	Weisse$_1$ VII 1320	6.3	46 39.427	2.8426	−0.0011	.....	−10 53 56.12	8.996	0.366	.....	8	3.99
805	ζ Canis Min	5.1	7 47 1.910	+3.1141	−0.0038	−0.0016	+ 1 59 49.23	−9.025	−0.402	−0.006	8	3.54
806	9 Puppis	5.3	7 47 36.204	+2.7829	−0.0006	−0.0041	−13 39 33.08	−9.070	−0.358	−0.339	8	3.98
807	Weisse$_1$ VII 1336	6.9	47 37.525	3.0138	−0.0027	.....	− 2 49 23.82	9.072	0.388	.....	10	3.58
808	φ Geminorum	5.0	47 59.391	3.6792	−0.0133	−0.0022	+26 59 57.25	9.100	0.474	−0.037	8	4.06
809	26 Lyncis	5.7	48 9.686	4.3852	−0.0317	−0.0042	+47 47 55.05	9.114	0.566	−0.008	8	4.09
810	α Puppis	3.8	7 49 7	+2.0637	+0.0010	−0.0016	−40 20 36.07	−9.188	−0.264	−0.008	-- 21	--- 5.12
811	Groomb. 1374	5.6	7 49 26.473	+7.2556	−0.1853	−0.0020	+74 9 34.05	−9.213	−0.936	−0.033	8 16	4.04 4.73
812	Groomb. 1374 s. p.	5.6	49 26.441	7.2556	−0.1853	−0.0020	+74 9 34.60	9.213	0.936	−0.033	8	3.59
813	Bradley 1137	5.4	50 24.768	3.5064	−0.0102	−0.0007	+20 7 19.89	9.288	0.449	−0.046	8 9	3.41 3.35
814	Lal. 15408	6.9	50 37.830	3.7584	−0.0154	.....	+30 5 23.94	9.305	0.481	.....	8	3.94
815	B. D.+44° 1693	6.5	7 51 57.421	+4.2208	−0.0279	.....	+44 13 6.40	−9.408	−0.539	.....	8	3.46
816	Bradley 1141	4.4	7 52 59.315	+2.5815	+0.0007	−0.0029	−22 38 22.37	−9.487	−0.327	+0.008	8	3.50
817	Bradley 1139	5.4	53 40.611	3.1231	−0.0042	−0.0106	+ 2 27 55.07	9.541	0.396	+0.095	8	3.96
818	Lac. 3081	4.8	54 4.773	2.3921	+0.0013	−0.0008	−30 5 31.77	9.571	0.302	+0.008	8	3.56
819	Piazzi VII 267	6.2	54 33.587	3.3538	−0.0078	.....	+13 29 14.72	9.608	0.425	.....	8	3.99
820	ω Cancri	5.9	7 55 29.185	+3.6342	−0.0133	+0.0010	+25 38 22.96	−9.679	−0.460	−0.001	8 15	3.42 4.22

775–776. The proper motion is variable due to orbital motion. The values given are for the mean of the two components.
786. The position of α Canis Minoris is for the center of its orbit.
793. Comp., 8m.5, 6″.6, s. pr.
806. Double, 6m.0, 6m.5, <1″.

[From observations in 1911–1918]

No.	Name	Magnitude	Right Ascension 1910.0	Annual Precession 1910.0	Secular Variation 1910.0	Annual Proper Motion	Declination 1910.0	Annual Precession 1910.0	Secular Variation 1910.0	Annual Proper Motion	Number of Observations	Mean Date
			h m s	s	s	s	° ′ ″	″	″	″		1910+
821	Groomb. 1359	6.4	7 55 30.654	+14.8399	− 1.2644	−0.004	+84 19 13.84	− 9.681	−1.890	−0.028	8	4.02
822	Groomb. 1359 s. P	6.4	55 30.483	14.8399	− 1.2644	−0.004	+84 19 13.66	9.681	1.890	−0.028	9 8	3.56 3.66
823	Cape. 60, 302	4.6	55 50.011	2.6892	+ 0.0001	−0.0006	−18 9 7.20	9.706	0.339	−0.045	8	3.99
824	Weisse$_1$ VII 1591	6.1	56 57.506	3.2606	− 0.0064	.....	+ 9 9 46.01	9.792	0.410	.....	8	3.49
825	χ Geminorum	5.0	7 57 59.489	+ 3.6922	− 0.0150	−0.0015	+28 2 49.91	− 9.871	−0.464	−0.052	9 8	3.43 3.48
826	Weisse$_1$ VII 1628	6.3	7 58 0.620	+ 2.9485	− 0.0022	.....	− 6 5 9.37	− 9.872	−0.370	.....	9	3.81
827	Bradley 1156	5.1	8 0 3.696	3.3477	− 0.0081	−0.0022	+13 22 29.96	10.028	0.418	−0.078	8	3.99
828	ζ Argûs	2.3	0 25	2.1110	+ 0.0013	−0.0030	−39 44 57.44	10.055	0.262	+0.007	-- 24	--- 5.21
829	Lac. 3127	6.7	0 45.599	2.5229	+ 0.0010	.....	−25 26 37.69	10.081	0.314	.....	8 9	3.46 3.40
830	Weisse$_1$ VII 1720	6.6	8 1 13.865	+ 3.0662	− 0.0037	.....	− 0 18 58.38	−10.116	−0.382	.....	9	4.18
831	27 Lyncis	4.9	8 1 41.461	+ 4.5352	− 0.0419	−0.0058	+51 46 0.71	−10.151	−0.566	−0.008	8 14	3.42 4.32
832	B. D.+38° 1861	7.0	1 50	4.0001	− 0.0238	.....	+38 50 26.36	10.161	0.498	.....	-- 4	--- 7.19
833	Cape 50, 1405	5.2	3 19.717	2.6482	+ 0.0004	−0.0007	−20 17 38.42	10.274	0.327	−0.026	8	3.52
834	ρ Argûs	2.9	3 42.599	2.5611	+ 0.0009	−0.0065	−24 2 39.91	10.303	0.316	+0.045	8	4.04
835	3 H. Ursæ Maj	5.5	8 3 52.094	+ 6.0177	− 0.1203	+0.0008	+68 44 24.40	−10.315	−0.748	+0.005	8	4.02
836	3 H. Ursæ Maj. s. P	5.5	8 3 52.032	+ 6.0177	− 0.1203	+0.0008	+68 44 24.40	−10.315	−0.748	+0.005	10 11	3.68 3.77
837	Fedor. 1261	6.8	4 15.514	4.6202	0.0464	.....	+53 30 42.54	10.344	0.573	.....	9	3.54
838*	Weisse$_2$ VII 1678	6.6	4 20.204	3.8957	0.0213	+0.0183	+35 43 29.62	10.350	0.482	−0.248	8	3.53
839	ψ Cancri	5.8	5 1.998	3.6243	0.0143	−0.0051	+25 46 50.41	10.402	0.447	−0.354	8	4.06
840	Oeltzen 8668	7.1	8 5 37.758	+ 4.3952	− 0.0381	.....	+49 13 34.94	−10.446	−0.542	.....	8	4.06
841	Lal. 15970	6.1	8 5 55.526	+ 3.3757	− 0.0090	−0.0007	+14 53 46.07	−10.468	−0.415	−0.013	10	3.76
842	Bradley 1176	5.6	6 29.434	2.7986	0.0007	−0.0158	−13 32 2.78	10.511	0.343	+0.045	8	3.96
843	Piazzi VII 311	5.9	6 40.100	4.8056	0.0555	+0.0015	+56 43 22.22	10.524	0.592	−0.039	8	3.46
844	γ Argûs	2.2	6 45	1.8500	0.0000	−0.0004	−47 4 18.81	10.531	0.225	−0.003	-- 3	--- 4.76
845	Bradley 1177	4.7	8 7 2.907	+ 2.8173	− 0.0009	−0.0017	−12 39 34.41	−10.552	−0.345	+0.011	9	4.38
846	ζ Cancri *mean*	4.7	8 7 3.060	+ 3.4400	− 0.0104	+0.0046	+17 55 10.32	−10.552	−0.422	−0.140	8 9	3.42 3.36
847	Groomb. 1391	6.2	7 12.210	11.9527	0.8419	−0.0020	+82 42 41.40	10.564	1.477	−0.031	8	4.08
848	Groomb. 1391 s. P	6.2	7 12.034	11.9527	0.8419	−0.0020	+82 42 41.10	10.564	1.477	−0.031	8	3.55
849	Bradley 1147	5.7	8 15.751	7.6259	0.2586	+0.0067	+76 1 58.39	10.642	0.938	+0.012	8 14	3.66 4.46
850	Bradley 1147 s. P	5.7	8 8 15.649	+ 7.6259	− 0.2586	+0.0067	+76 1 58.37	−10.642	−0.938	+0.012	8	3.49
851	Groomb. 1119	7.0	8 8 41.11	+62.237	−32.887	−0.033	+88 54 16.61	−10.673	−7.676	+0.007	23 28	4.22 4.49
852	Groomb. 1119 s. P	7.0	8 41.61	62.237	32.887	−0.033	+88 54 16.82	10.673	7.676	+0.007	28 28	4.40 4.47
853	20 Puppis	5.0	9 11.704	2.7589	0.0004	−0.0009	−15 31 0.03	10.711	0.335	−0.007	9	3.49
854	Bradley 1160	6.2	10 46.207	6.6807	0.1789	+0.0007	+72 41 15.05	10.828	0.815	−0.027	8	3.60
855	Bradley 1160 s. P	6.2	8 10 46.188	+ 6.6807	− 0.1789	+0.0007	+72 41 15.28	−10.828	−0.815	−0.027	7 8	3.58 3.73
856	β Cancri	3.8	8 11 38.073	+ 3.2595	− 0.0072	−0.0035	+ 9 27 48.14	−10.891	−0.394	−0.054	63 45	3.78 3.82
857	B. D.+39° 2082	7.7	11 58	3.9828	0.0255	.....	+39 4 45.57	10.915	0.482	.....	-- 4	--- 7.19
858	Weisse$_1$ VIII 228	6.7	12 34.239	3.1605	0.0055	.....	+ 4 29 50.25	10.960	0.381	.....	8	4.05
859	Bradley 1184	6.3	13 15.491	2.7522	0.0002	−0.0012	−16 0 21.51	11.010	0.331	−0.018	8	3.44
860	Weisse$_1$ VIII 313	6.3	8 14 56.221	+ 2.8789	− 0.0015	.....	− 9 53 4.57	−11.132	−0.344	.....	8	3.52
861	Piazzi VIII 30	6.5	8 15 10.657	+ 5.0692	− 0.0737	+0.0015	+60 55 0.69	−11.150	−0.609	−0.003	8	3.99
862	λ Cancri	5.9	15 11.113	3.5741	0.0143	−0.0011	+24 18 22.42	11.150	0.428	−0.031	8	4.07
863	31 Lyncis	4.4	16 40.638	4.1210	0.0314	−0.0008	+43 28 38.64	11.259	0.492	−0.107	21 9	5.72 3.53
864	d^1 Cancri	5.9	18 12.656	3.4434	0.0114	−0.0039	+18 37 18.11	11.369	0.409	−0.032	8 10	4.04 4.48
865	Weisse$_2$ VIII 323	7.5	8 18 13.047	+ 3.7760	− 0.0203	.....	+32 34 58.72	−11.370	−0.449	.....	8	3.60
866	Bradley 1187	6.3	8 18 59.895	+ 3.2844	− 0.0080	+0.0005	+10 55 20.97	−11.426	−0.388	−0.020	8	3.55
867	Lac. 3298	6.6	20 6.669	2.4739	+ 0.0017	.....	−28 40 46.24	11.506	0.290	.....	8	3.55
868	Bradley 1192	6.2	20 44.192	3.4136	− 0.0110	−0.0130	+17 20 34.94	11.551	0.402	−0.161	8	4.03
869	Piazzi VIII 67	5.2	21 5.113	3.2231	− 0.0069	−0.0029	+ 7 51 30.21	11.576	0.379	−0.005	8	3.47
870	30 Monoceratis	4.0	8 21 9.779	+ 3.0037	− 0.0032	−0.0044	− 3 36 44.95	−11.581	−0.352	−0.025	49 43	3.71 3.73
871	Piazzi VIII 72	5.5	8 21 10.493	+ 2.5925	+ 0.0012	−0.0039	−23 45 14.23	−11.582	−0.303	+0.028	9	3.69
872	Weisse$_1$ VIII 503	5.9	21 44.705	2.7882	− 0.0005	.....	−14 38 11.37	11.623	0.326	.....	8	4.01
873	Bradley 1199	5.4	21 57.371	3.0023	− 0.0032	−0.0036	− 3 41 28.49	11.638	0.352	−0.045	8	4.11
874	B. D.+18° 1947	7.8	22 45.278	3.4329	− 0.0116	.....	+18 21 57.61	11.695	0.401	.....	2	7.22
875	o Ursæ Maj	3.5	8 22 47.594	+ 5.0320	− 0.0767	−0.0167	+61 1 10.97	−11.697	−0.591	−0.114	15 16	6.06 6.01

846. Triple; binary, $6^m.3$, $6^m.0$, 1″.1, with comp., $5^m.6$, 5″.3, s. f.

[From observations in 1911–1918]

No.	Name	Magnitude	Right Ascension 1910.0	Annual Precession 1910.0	Secular Variation 1910.0	Annual Proper Motion	Declination 1910.0	Annual Precession 1910.0	Secular Variation 1910.0	Annual Proper Motion	Number of Observations	Mean Date
			h m s	s	s	s	° ′ ″	″	″	″		1910+
876	o Ursæ Maj. s. P	3.5	8 22 47	+ 5.0320	−0.0767	−0.0167	+61 1 11.39	−11.697	−0.591	−0.114	67	4.90
877	Weisse$_2$ VIII 481	6.7	24 25.316	3.6107	0.0164	.....	+26 29 35.18	11.813	0.420	.....	8	4.00
878	B. D.+22° 1941	9.1	24 40.837	3.5156	0.0138	.....	+22 19 48.75	11.831	0.409	.....	3 2	7.24 7.23
879	B. D.+18° 1958	8.8	26 0.553	3.4266	0.0117	.....	+18 14 24.33	11.925	0.396	.....	2	7.22
880	B. D.+22° 1949	8.7	8 26 44.802	+ 3.5055	−0.0138	.....	+22 0 7.33	−11.976	−0.405	.....	3 2	7.24 7.23
881	Groomb. 1450	6.0	8 27 4.051	+ 3.9188	−0.0266	−0.0090	+38 19 31.85	−11.999	−0.452	−0.175	16 8	5.48 3.40
882	η Cancri	5.5	27 30.274	3.4775	0.0131	−0.0026	+20 44 50.47	12.029	0.400	−0.054	8	4.00
883	Bradley 1204	6.1	27 35.402	3.8703	0.0250	−0.0116	+36 44 31.47	12.035	0.446	−0.008	8	3.46
884	B. D.+18° 1973	8.7	28 34.467	3.4177	0.0117	.....	+17 57 11.09	12.104	0.392	.....	2	7.22
885	B. D.+21° 1866	8.5	8 29 24.917	+ 3.4975	−0.0138	.....	+21 48 7.32	−12.163	−0.400	.....	3 2	7.24 7.23
886	Groomb. 1446	6.3	8 29 43.347	+ 6.7601	−0.2204	−0.0043	+73 56 42.68	−12.184	−0.777	−0.105	8 15	4.06 4.71
887	Groomb. 1446 s. P	6.3	29 43.268	6.7601	0.2204	−0.0043	+73 56 42.57	12.184	0.777	−0.105	8	3.71
888	Groomb. 1431	6.7	30 11.810	11.1855	0.8831	.....	+82 33 32.73	12.217	1.288	.....	8	4.02
889	Groomb. 1431 s. P	6.7	30 11.696	11.1855	0.8831	.....	+82 33 32.40	12.217	1.288	.....	6 8	2.88 3.55
890	Bradley 1202	5.7	8 31 12.814	+ 5.3717	−0.1049	−0.0020	+65 19 58.02	−12.287	−0.614	+0.085	8	4.04
891*	B. D.+17° 1882	8.1	8 31 15.933	+ 3.4075	−0.0117	−0.006	+17 36 5.77	−12.291	−0.387	−0.05	2	7.22
892	B. D.+21° 1875	9.1	31 22.828	3.4883	−0.0138	.....	+21 30 5.66	12.299	0.396	.....	3 2	7.24 7.23
893	Bradley 1213	6.0	32 13.033	3.2575	−0.0082	−0.0018	+ 9 58 7.23	12.356	0.369	−0.022	8	4.08
894	27 B. Ursæ Maj	6.0	32 37.794	4.4684	−0.0518	−0.0026	+53 1 39.28	12.385	0.507	−0.032	8	3.48
895	Lal. 17001	7.1	8 32 52.595	+ 2.7239	+0.0004	.....	−18 22 0.06	−12.402	−0.307	.....	8 7	3.49 3.57
896	δ Hydræ	4.2	8 32 53.476	+ 3.1832	−0.0066	−0.0049	+ 6 1 4.82	−12.403	−0.359	−0.011	8	4.02
897	σ Hydræ	4.5	34 3.195	3.1394	−0.0057	−0.0012	+ 3 39 27.97	12.483	0.353	−0.020	9 14	3.40 4.33
898	Fedor. 1359	7.0	34 9.244	4.3984	−0.0490	.....	+51 44 50.70	12.489	0.496	.....	9	3.77
899	B. D.+17° 1902	8.3	34 25.331	3.4078	−0.0119	.....	+17 47 44.61	12.508	0.383	.....	3 2	7.24 7.23
900	Bradley 1220	6.7	8 34 32.468	+ 3.4545	−0.0132	−0.0023	+20 5 45.33	−12.516	−0.388	−0.016	8	4.16
901	Bradley 1214	5.5	8 34 48.112	+ 4.1582	−0.0381	+0.0028	+46 9 1.28	−12.534	−0.468	+0.077	8	3.71
902	B. D.+21° 1885	10.1	35 14.577	3.4815	−0.0140	.....	+21 26 32.12	12.564	0.390	.....	2	7.22
903	6 Hydræ	5.2	35 45.560	2.8486	−0.0010	−0.0059	−12 9 24.65	12.599	0.318	−0.004	9	3.64
904	β Pyxidis	4.0	36 34.726	2.3471	+0.0028	+0.0004	−34 59 19.11	12.655	0.260	−0.019	9	4.30
905	Lal. 17133	6.5	8 36 39.659	+ 2.9134	−0.0018	.....	− 8 43 54.97	−12.660	−0.324	.....	9	4.22
906	B. D.+22° 1976	9.0	8 37 26.160	+ 3.4991	−0.0147	.....	+22 25 53.08	−12.713	−0.389	.....	2	7.22
907	B. D.+18° 2022	7.9	38 1.280	3.4170	−0.0124	−0.0014	+18 28 25.03	12.752	0.379	+0.010	3 2	7.24 7.23
908	γ Cancri	4.7	38 4.712	3.4847	−0.0143	−0.0073	+21 47 33.42	12.756	0.386	−0.050	8 14	3.42 4.32
909	η Hydræ	4.3	38 31.230	3.1395	−0.0058	−0.0015	+ 3 43 19.91	12.786	0.347	−0.002	8	4.05
910	δ Cancri	4.2	8 39 34.273	+ 3.4153	−0.0125	−0.0012	+18 29 7.52	−12.857	−0.376	−0.239	8	3.43
911*	B. D.+22° 1983	8.8	8 39 41.255	+ 3.4904	−0.0147	−0.001	+22 10 58.55	−12.864	−0.385	−0.05	2	7.22
912	Bradley 1233	6.1	39 50.270	3.6886	−0.0210	+0.0002	+31 1 27.09	12.874	0.407	−0.020	8	4.10
913	α Pyxidis	3.7	39 58.459	2.4111	+0.0028	−0.0009	−32 51 41.04	12.884	0.264	+0.006	9	3.73
914	B. D.+18° 2030	9.1	40 2.272	3.4187	−0.0126	.....	+18 41 11.70	12.888	0.376	.....	3 2	7.24 7.23
915	Bradley 1240	6.0	8 40 15.286	+ 3.1802	−0.0067	+0.0003	+ 6 0 25.50	−12.902	−0.349	−0.003	8 9	4.15 4.36
916	Lal. 17283	6.1	8 40 53.644	+ 2.6841	+0.0011	.....	−20 50 27.98	−12.945	−0.293	.....	9	3.53
917	ι Cancri	4.2	41 15.167	3.6395	−0.0195	−0.0015	+29 5 22.33	12.969	0.399	−0.050	13 8	5.36 4.08
918	Weisse$_1$ VIII 1016	6.5	41 47.794	2.8808	−0.0013	.....	−10 40 42.90	13.005	0.314	.....	8	3.69
919	ε Hydræ	3.5	42 0.558	3.1928	−0.0071	−0.0127	+ 6 44 57.58	13.020	0.348	−0.054	54 48	4.69 4.92
920	B. D.+22° 1991	8.8	8 42 1.918	+ 3.4804	−0.0146	.....	+21 52 22.05	−13.021	−0.380	.....	2	7.22
921*	B. D.+17° 1936	8.9	8 42 15.667	+ 3.3948	−0.0122	+0.004	+17 36 35.95	−13.036	−0.370	+0.02	2	7.23
922	Lac. 3509	7.3	42 18.593	2.5716	+0.0021	.....	−26 17 1.62	13.039	0.279	.....	9	4.30
923	Piazzi VIII 167	5.2	42 41.268	3.0148	−0.0040	−0.0031	− 1 34 0.67	13.065	0.331	−0.006	9	3.53
924	Bradley 1247	5.2	45 54.639	4.0415	−0.0362	+0.0001	+44 3 44.16	13.277	0.436	+0.037	8	4.07
925	Bradley 1241	5.7	8 45 58.169	+ 4.9792	−0.0898	−0.0014	+62 17 58.92	−13.281	−0.538	+0.019	8	3.46
926	Rümker 2653	6.1	8 45 59.997	+ 4.7646	−0.0756	.....	+59 23 38.24	−13.283	−0.515	.....	8	4.12
927	Bradley 1250	6.3	46 0.708	3.3536	−0.0113	−0.0079	+15 41 5.92	13.284	0.360	+0.068	8	4.07
928	Piazzi VIII 188	6.0	46 15.793	2.5154	+0.0027	−0.0022	−29 7 39.66	13.300	0.269	+0.003	9	3.57
929	Fedor. 1373	7.4	46 42.258	7.9736	−0.4152	.....	+78 29 18.54	13.329	0.863	.....	9	3.61
930	Fedor. 1373 s. P	7.4	8 46 42.214	+ 7.9736	−0.4152	.....	+78 29 18.31	−13.329	−0.863	.....	8	3.63

879, 884, 891. Mag. from A. G. Cat.
902. Mag. given as 9.0 in A. G. Cat.

906, 921. Mag. from A. G. Cat.
919. Triple; binary, $3^m.5$, $6^m.8$, 0″.2, with comp., $7^m.8$, 3″.3.

[From observations in 1911–1918]

No.	Name	Magnitude	Right Ascension 1910.0	Annual Precession 1910.0	Secular Variation 1910.0	Annual Proper Motion	Declination 1910.0	Annual Precession 1910.0	Secular Variation 1910.0	Annual Proper Motion	Number of Observations	Mean Date
			h m s	s	s	s	° ′ ″	″	″	″		1910+
931	ρ^1 Cancri	6.1	8 47 14.144	+ 3.6173	−0.0196	−0.0365	+28 40 29.35	−13.364	−0.387	−0.245	8	4.03
932	σ^2 Cancri *mean*	5.6	48 45.331	3.6656	−0.0215	+0.0030	+30 55 14.39	13.462	0.390	−0.033	8	3.51
933	Lal. 17586	7.4	49 51.512	2.9266	−0.0018	.....	− 8 25 9.26	13.534	0.309	.....	8	4.15
934	ζ Hydræ	3.3	50 38.163	3.1808	−0.0071	−0.0069	+ 6 17 18.67	13.584	0.335	+0.009	81 58	4.52 4.64
935	60 Cancri	5.7	8 51 0.720	+ 3.2806	−0.0096	−0.0002	+11 58 13.53	−13.608	−0.345	−0.021	8	4.03
936	Lal. 17636	5.9	8 51 4.252	+ 2.7557	+0.0007	.....	−17 53 52.17	−13.612	−0.289	.....	10 9	3.76 3.73
937	Weisse$_2$ VIII 1205	7.0	51 53.276	3.4717	−0.0153	.....	+22 12 22.19	13.664	0.364	.....	8	4.03
938	ι Ursæ Maj	3.1	53 2.842	4.1685	−0.0446	−0.0438	+48 23 43.57	13.738	0.437	−0.248	8	4.04
939	α Cancri	4.3	53 33.935	3.2826	−0.0098	+0.0025	+12 12 23.64	13.771	0.342	−0.039	8	3.43
940	ρ Ursæ Maj	5.0	8 54 26.554	+ 5.4652	−0.1359	−0.0026	+67 58 52.14	−13.827	−0.571	+0.015	8	3.56
941	ρ Ursæ Maj. S. P	5.0	8 54 26.583	+ 5.4652	−0.1359	−0.0026	+67 58 52.01	−13.827	−0.571	+0.015	8	3.59
942	Groomb. 1496	6.5	54 47.647	3.8262	−0.0289	.....	+37 57 17.84	13.849	0.397	.....	8	4.11
943	10 Ursæ Maj	4.1	54 47.890	3.9468	−0.0343	−0.0388	+42 8 21.72	13.849	0.410	−0.261	8	4.12
944	Rad. 45, 2218	6.3	56 44.401	13.1065	−1.6501	+0.013	+84 32 39.70	13.972	1.364	+0.019	9 8	3.52 3.47
945	Rad. 45, 2218 S. P	6.3	8 56 44.293	+13.1065	−1.6501	+0.013	+84 32 39.34	−13.972	−1.364	+0.019	8	3.59
946	Pulk. 55, 1436	5.8	8 57 22.070	+ 3.0703	−0.0046	−0.0031	− 0 7 49.95	−14.011	−0.314	+0.079	9	3.59
947	44 B. Ursæ Maj	5.7	57 25.135	4.4190	−0.0604	+0.0004	+54 38 21.20	14.014	0.455	−0.002	8	4.02
948	κ Ursæ Maj	3.7	57 29.104	4.1155	−0.0434	−0.0030	+47 30 47.00	14.018	0.423	−0.066	15 13	5.71 5.48
949	B. D.+39° 2193	6.7	58 2	3.8470	−0.0306	.....	+39 5 54.23	14.053	0.394	.....	.. 4	... 7.21
950	Weisse$_1$ VIII 1442	6.7	8 59 14.287	+ 2.9927	−0.0029	.....	− 4 48 53.78	−14.127	−0.304	.....	8	4.02
951	145 B. Lyncis	4.7	9 0 48.431	+ 3.8299	−0.0304	−0.0030	+38 48 44.49	−14.225	−0.387	−0.025	9 4	7.02 7.22
952	ω Hydræ	5.4	1 14.095	3.1622	−0.0068	−0.0014	+ 5 27 8.29	14.251	0.318	−0.003	8	3.45
953	σ^2 Ursæ Maj	4.9	2 29.143	5.3290	−0.1328	−0.0009	+67 30 1.65	14.328	0.537	−0.070	8 17	4.06 4.90
954	σ^2 Ursæ Maj. S. P	4.9	2 29.137	5.3290	−0.1328	−0.0009	+67 30 1.69	14.328	0.537	−0.070	7 7	3.36 3.92
955	τ Cancri	5.4	9 2 35.961	+ 3.6123	−0.0215	−0.0020	+30 0 59.46	−14.334	−0.362	−0.009	8	4.06
956	κ Cancri	5.1	9 2 52.371	+ 3.2544	−0.0094	−0.0013	+11 1 51.00	−14.351	−0.325	−0.011	8	3.50
957	Bradley 1286	6.0	3 29.727	3.5466	−0.0191	−0.0087	+27 0 6.03	14.389	0.354	−0.387	8	3.70
958	τ Ursæ Maj	4.7	3 30.600	4.9700	−0.1031	+0.0154	+63 52 48.78	14.390	0.498	−0.069	8	3.58
959	κ Pyxidis	4.8	4 5.760	2.6300	+0.0029	+0.0029	−25 29 42.05	14.426	0.260	−0.008	8	3.66
960	ξ Cancri	5.2	9 4 11.164	+ 3.4550	−0.0159	+0.0003	+22 24 35.78	−14.431	−0.343	−0.007	8	4.02
961	λ Argûs	2.2	9 4 41	+ 2.2074	+0.0045	−0.0024	−43 4 8.34	−14.461	−0.217	+0.005	.. 30	... 5.28
962	Lac. 3692	6.2	4 48.463	2.6133	+0.0031	.....	−26 24 11.75	14.469	0.258	.....	9	3.59
963	Paris 11266	5.8	4 52.528	2.8761	−0.0006	+0.0003	−11 59 33.71	14.473	0.284	−0.024	8	4.11
964	Lal. 18097	7.4	5 4.308	2.7260	+0.0018	.....	−20 33 44.03	14.485	0.269	.....	10	3.62
965	ϵ Pyxidis	5.6	9 6 7.484	+ 2.5418	+0.0038	−0.0001	−29 59 51.66	−14.548	−0.249	−0.038	8	4.14
966	Bradley 1296	6.8	9 6 53.642	+ 3.3775	−0.0134	−0.0024	+18 24 47.29	−14.595	−0.331	−0.030	9 8	3.40 3.45
967	36 Lyncis	5.3	7 55.244	3.9404	−0.0375	−0.0021	+43 35 20.99	14.656	0.386	−0.047	8	3.58
968*	B. D.+39° 2223	6.8	9 18	3.8055	−0.0312	−0.0113	+38 58 48.21	14.738	0.370	+0.072	.. 4	... 7.21
969	θ Hydræ	3.8	9 40.958	3.1151	−0.0057	+0.0087	+ 2 41 38.48	14.761	0.301	−0.312	104 77	3.95 4.17
970	Bradley 1297	4.9	9 9 43.147	+ 4.3350	−0.0611	+0.0070	+54 23 38.93	−14.763	−0.421	+0.060	8	4.01
971*	Groomb. 1522	6.5	9 10 39.965	+ 6.2948	−0.2508	−0.010	+74 23 43.19	−14.819	−0.612	−0.08	8	3.56
972*	Groomb. 1522 S. P	6.5	10 39.997	6.2948	−0.2508	−0.010	+74 23 43.18	14.819	0.612	−0.08	8	3.63
973	Piazzi IX 19	5.7	11 29.129	4.0404	−0.0440	+0.0020	+47 11 34.66	14.867	0.389	+0.008	8	4.04
974	Weisse$_1$ IX 175	6.5	12 2.577	3.0898	−0.0050	.....	+ 1 6 18.54	14.900	0.295	.....	8	3.58
975	Bradley 1307	5.4	9 12 13.546	+ 2.9790	−0.0024	+0.0003	− 5 58 38.65	−14.910	−0.284	0.000	8	4.10
976	Weisse$_2$ IX 185	7.1	9 12 35.146	+ 3.4594	−0.0168	.....	+23 27 21.59	−14.932	−0.330	.....	8	3.54
977	83 Cancri	6.6	13 57.511	3.3618	−0.0134	−0.0081	+18 5 13.64	15.011	0.318	−0.138	8 17	4.09 4.91
978	Lal. 18396	6.9	14 44.784	2.8125	+0.0010	.....	−16 25 16.73	15.057	0.264	.....	10	3.64
979	B. D.+57° 1214	6.0	15 7.281	4.4328	−0.0706	.....	+57 4 51.92	15.078	0.419	.....	9	3.76
980	40 Lyncis	3.3	9 15 34.415	+ 3.6826	−0.0267	−0.0176	+34 46 24.94	−15.104	−0.346	+0.010	103 65	4.76 5.02
981	Weisse$_1$ IX 269	6.6	9 16 23.693	+ 3.2825	−0.0108	.....	+13 29 44.05	−15.151	−0.307	.....	8	3.70
982	θ Pyxidis	4.9	17 30.440	2.6560	+0.0035	−0.0015	−25 34 55.66	15.215	0.246	−0.009	9	3.62
983	Lal. 18466	6.4	18 49.011	3.7232	−0.0292	.....	+36 58 25.56	15.290	0.345	.....	8	4.07
984	λ Pyxidis	4.9	19 18.377	2.6054	+0.0042	−0.0117	−28 26 55.56	15.317	0.239	+0.022	10	3.64
985	κ Leonis	4.6	9 19 24.885	+ 3.5034	−0.0193	−0.0023	+26 34 12.28	−15.323	−0.323	−0.053	8	4.09

932. Double, 5m.9, 6m .4, 1″.4.

953. Binary, 4m.9, 8m, 1″.3.

[From observations in 1911–1918]

No.	Name	Magnitude	Right Ascension 1910.0	Annual Precession 1910.0	Secular Variation 1910.0	Annual Proper Motion	Declination 1910.0	Annual Precession 1910.0	Secular Variation 1910.0	Annual Proper Motion	Number of Observations	Mean Date
			h m s	s	s	s	° ′ ″	″	″	″		1910+
986	Piazzi IX 74	6.3	9 20 33.405	+3.3340	−0.0128	−0.0053	+16 58 27.43	−15.387	−0.305	−0.020	9	3.63
987	Rad. 90, 2419	6.9	21 36.143	2.6762	+0.0036		−24 56 53.02	15.446	0.242		8	3.70
988	α Hydræ	2.2	23 9.860	2.9498	−0.0014	−0.0011	− 8 16 5.34	15.533	0.265	+0.031	94 64	4.38 5.01
989	1 H. Draconis	4.6	24 20.013	8.8450	−0.7669	−0.0043	+81 43 31.16	15.597	0.803	−0.025	44	3.80
990	1 H. Draconis s. p	4.6	9 24 19.913	+8.8450	−0.7669	−0.0043	+81 43 31.01	−15.597	−0.803	−0.025	69 76	4.86 4.87
991	h Ursæ Maj	3.8	9 24 26.702	+4.7521	−0.1026	+0.0170	+63 27 21.59	−15.603	−0.428	+0.025	8	4.10
992	Bradley 1334	4.8	24 34.849	3.0378	−0.0035	+0.0084	− 2 22 31.11	15.611	0.271	−0.019	8	3.57
993	Bradley 1331	6.0	25 17.011	3.6369	−0.0263	−0.0006	+34 3 5.86	15.649	0.325	−0.065	8	4.07
994	ϵ Antliæ	4.6	25 31.750	2.4763	+0.0060	−0.0022	−35 33 26.70	15.662	0.219	−0.019	8	3.73
995	Weisse$_2$ IX 477	6.6	9 26 2.397	+3.5107	−0.0205		+27 47 0.54	−15.690	−0.312		8	4.14
996	d Ursæ Maj	4.6	9 26 32.413	+5.3798	−0.1684	−0.0112	+70 13 36.21	−15.718	−0.480	+0.070	8 17	3.55 4.73
997	d Ursæ Maj. s. p	4.6	26 32.409	5.3798	−0.1684	−0.0112	+70 13 36.25	15.718	0.480	+0.070	9	3.56
998	θ Ursæ Maj	3.3	26 50.131	4.1358	−0.0558	−0.1026	+52 5 14.49	15.734	0.367	−0.548	10	4.75
999	ξ Leonis	5.1	27 5.689	3.2438	−0.0099	−0.0065	+11 41 55.13	15.748	0.286	−0.087	8	3.64
1000	Bradley 1339	5.3	9 27 8.145	+3.2200	−0.0091	−0.0005	+10 6 46.79	−15.750	−0.284	−0.023	16	3.69
1001	ψ Argûs	3.6	9 27 9	+2.3771	+0.0066	−0.0164	−40 4 20.60	−15.751	−0.208	+0.066	-- 9	--- 4.78
1002	Weisse$_1$ IX 549	6.2	28 2.220	3.1050	−0.0054		+ 2 15 47.02	15.798	0.272		8	3.75
1003	Weisse$_1$ IX 572	6.2	28 36.417	2.8814	+0.0004		−13 7 6.12	15.829	0.251		8	3.70
1004	Bradley 1336	4.6	28 39.804	4.1389	−0.0569	−0.0063	+52 27 7.86	15.832	0.363	−0.044	8	3.55
1005	10 Leonis Min	4.6	9 28 42.770	+3.6855	−0.0294	+0.0011	+36 47 51.06	−15.835	−0.323	−0.027	18 8	5.62 3.58
1006	Lal. 18884	6.2	9 31 22.581	+2.7918	+0.0025		−19 10 49.87	−15.976	−0.239		8	4.09
1007	B. D.+67° 602	6.3	32 0.954	5.0312	−0.1374		+67 40 41.30	16.010	0.435		8	4.11
1008	10 Leonis	5.1	32 28	3.1744	−0.0077	−0.0044	+ 7 14 22.96	16.034	0.271	−0.007	-- 2	--- 6.30
1009	B. D.+43° 1943	6.6	33 27.823	3.8306	−0.0387		+43 33 5.55	16.086	0.326		8	3.70
1010	Weisse$_2$ IX 656	6.8	9 33 51.752	+3.3732	−0.0153	−0.0012	+20 42 13.62	−16.107	−0.286	−0.032	8	3.72
1011	ι Hydræ	4.1	9 35 15.572	+3.0624	−0.0040	+0.0031	− 0 44 2.20	−16.179	−0.257	−0.072	9	3.43
1012	Bradley 1358	6.2	35 23.681	2.9312	−0.0004	−0.0028	−10 9 46.75	16.186	0.245	−0.001	8	4.08
1013	κ Hydræ	5.0	35 59.441	2.8778	+0.0010	−0.0018	−13 55 25.43	16.217	0.240	−0.016	8 7	3.53 3.47
1014	o Leonis	3.8	36 20.824	3.2150	−0.0092	−0.0098	+10 18 7.23	16.235	0.268	−0.039	8 14	4.09 4.70
1015	Bradley 1354	5.5	9 36 25.987	+3.7339	−0.0338	−0.0051	+40 10 6.36	−16.240	−0.312	−0.049	8	3.62
1016	Groomb. 1573	6.3	9 36 48.235	+3.9668	−0.0485		+48 50 29.68	−16.259	−0.331		9	3.94
1017	13 Leonis Min	6.0	37 17.400	3.6286	−0.0281		+35 30 18.15	16.284	0.302		8	3.66
1018	ψ Leonis	5.6	38 49.873	3.2712	−0.0114	−0.0002	+14 26 1.74	16.362	0.269	−0.014	8	4.03
1019	θ Antliæ	5.0	40 11.266	2.6764	+0.0053	−0.0045	−27 21 25.59	16.430	0.217	+0.023	8	3.71
1020	Piazzi IX 167	6.8	9 40 28.294	+2.7588	+0.0039		−22 20 19.56	−16.444	−0.223		9	4.28
1021	ϵ Leonis	3.1	9 40 44.645	+3.4152	−0.0179	−0.0030	+24 11 20.39	−16.458	−0.277	−0.024	81 65	4.68 4.67
1022	Weisse$_2$ IX 800	6.9	40 52.039	3.3365	−0.0143		+19 5 54.29	16.464	0.270		8	3.56
1023	Åbo 30, 205	6.0	41 25.205	3.1675	−0.0075	+0.0007	+ 7 7 27.15	16.492	0.256	−0.039	8	4.10
1024	Bradley 1369	5.2	42 47.458	3.8645	−0.0438	+0.0213	+46 26 26.36	16.560	0.310	−0.099	15 8	4.92 3.76
1025	υ Ursæ Maj	3.9	9 44 35.724	+4.3344	−0.0812	−0.0380	+59 27 44.49	−16.648	−0.345	−0.159	21 28	4.90 5.02
1026	υ Ursæ Maj. s. p	3.9	9 44 35	+4.3344	−0.0812	−0.0380	+59 27 44.76	−16.648	−0.345	−0.159	-- 61	--- 5.07
1027	6 Sextantis	6.0	46 41.896	3.0235	−0.0025	+0.0009	− 3 49 16.95	16.750	0.235	−0.030	8	3.46
1028	Bradley 1382	5.3	46 46.587	3.4119	−0.0183	+0.0011	+24 49 16.90	16.754	0.266	−0.193	8	3.70
1029	υ Hydræ	4.3	47 8.901	2.8842	+0.0016	+0.0009	−14 25 27.05	16.771	0.223	−0.027	8	3.51
1030	μ Leonis	4.1	9 47 38.765	+3.4352	−0.0196	−0.0163	+26 25 52.21	−16.795	−0.266	−0.063	8	3.73
1031	B. D.+61° 1151	6.4	9 48 29.920	+4.4108	−0.0912		+61 32 27.14	−16.836	−0.342		8	4.08
1032	Groomb. 1586	6.0	50 21.438	5.4612	−0.2198	−0.0148	+73 18 28.82	16.924	0.420	−0.047	8 16	3.57 4.64
1033	Groomb. 1586 s. p	6.0	50 21.400	5.4612	−0.2198	−0.0148	+73 18 28.79	16.924	0.420	−0.047	9	3.60
1034	Paris 12190	5.2	50 37.426	2.8321	+0.0032	−0.0016	−18 34 58.10	16.936	0.214	−0.045	8 7	3.62 3.55
1035	Bradley 1391	6.6	9 51 14.776	+3.5315	−0.0254	−0.0031	+32 48 40.02	−16.965	−0.267	−0.001	8	4.10
1036	Weisse$_1$ IX 1052	7.0	9 51 39.655	+2.9826	−0.0009		− 7 13 5.92	−16.984	−0.224		8	3.69
1037	19 Leonis Min	5.2	52 10.490	3.6980	−0.0358	−0.0102	+41 29 4.13	17.008	0.278	−0.037	13 8	4.91 3.59
1038	ν Leonis	5.2	53 22.936	3.2328	−0.0104	−0.0021	+12 52 27.92	17.064	0.240	−0.029	9	3.41
1039	Groomb. 1594	5.7	53 40.428	4.1603	−0.0719	−0.0039	+57 14 34.33	17.077	0.310	−0.043	8	3.67
1040	Carr. 1451	6.5	9 54 18.808	+10.1196	−1.4469		+84 21 13.93	−17.106	−0.762		10	4.08

1001 Double, 3m. 8, 6m.0, 0″.8

[From observations in 1911–1918]

No.	Name	Magnitude	Right Ascension 1910.0	Annual Precession 1910.0	Secular Variation 1910.0	Annual Proper Motion	Declination 1910.0	Annual Precession 1910.0	Secular Variation 1910.0	Annual Proper Motion	Number of Observations	Mean Date
			h m s	s	s	"	° ′ ″	″	″	″		1910+
1041	Carr. 1451 s. p.	6.5	9 54 18.371	+10.1196	−1.4469		+84 21 13.49	−17.106	−0.762		8	3.67
1042	Weisse$_2$ IX 1095	6.6	54 27.486	3.3502	−0.0160		+21 45 4.78	17.113	0.247		8	4.07
1043	η Antliæ	5.2	55 0.409	2.5788	+0.0086	−0.0076	−35 27 35.90	17.138	0.188	−0.027	8	3.79
1044	Piazzi IX 223	6.6	55 2.968	3.1187	−0.0057	−0.0050	+ 3 48 55.02	17.140	0.228	+0.011	8	3.59
1045	π Leonis	4.9	9 55 27.461	+ 3.1755	−0.0080	−0.0023	+ 8 28 34.52	−17.158	−0.232	−0.027	9 18	3.62 4.63
1046	Bradley 1397	5.6	9 55 49.289	+ 3.5093	−0.0249	−0.0409	+32 21 57.92	−17.175	−0.257	−0.441	14 8	5.23 4.09
1047*	Weisse$_1$ IX 1192	7.0	9 58 13.396	3.0651	−0.0035	+0.0007	− 0 37 52.53	17.282	0.219	−0.092	8	3.56
1048	193 G. Hydræ	5.8	10 0 11.414	2.7776	+0.0056	−0.0102	−23 50 58.63	17.369	0.195	+0.022	8	3.71
1049	Lac. 4132	6.9	0 43.797	2.7229	+0.0069		−27 45 7.42	17.392	0.190		9 10	3.63 3.58
1050	υ^2 Hydræ	4.7	10 0 44.446	+ 2.9237	+0.0016	−0.0025	−12 37 40.55	−17.393	−0.204	+0.012	8	3.73
1051	Rad. 45, 2443	7.5	10 1 32.638	+ 3.7445	−0.0420		+45 29 55.07	−17.427	−0.262		8	3.77
1052	Bradley 1404	6.3	2 5.041	3.1422	−0.0066	−0.0023	+ 6 3 1.71	17.451	0.218	−0.015	8	3.60
1053	η Leonis	3.6	2 25.613	3.2756	−0.0129	−0.0001	+17 12 6.46	17.466	0.227	−0.012	8 17	3.70 4.74
1054	α Leonis	1.3	3 34.706	3.2155	−0.0100	−0.0169	+12 24 26.57	17.515	0.221	−0.003	107 84	4.74 4.99
1055	B. D.+39° 2318	8.0	10 3 57	+ 3.5950	−0.0321		+38 52 19.70	−17.531	−0.247		-- 4	--- 7.28
1056	Bradley 1408	7.1	10 4 12.071	+ 3.2949	−0.0140	+0.0031	+18 58 23.13	−17.541	−0.225	−0.077	8	3.59
1057	Piazzi IX 254	6.5	5 33.604	3.6308	−0.0350	−0.0011	+41 6 15.32	17.598	0.246	−0.012	8	3.55
1058	Cape 50, 1834	5.4	5 42.568	2.9323	+0.0017	−0.0089	−12 22 15.18	17.605	0.197	−0.127	9	3.90
1059	Groomb. 1619	6.1	5 52.943	3.5684	−0.0308		+37 50 44.35	17.612	0.241		8	3.75
1060	λ Hydræ	3.8	10 6 11.930	+ 2.9383	+0.0015	−0.0137	−11 54 32.78	−17.625	−0.197	−0.093	8	3.73
1061	Fedor. 1629	6.7	10 6 53.815	+ 6.4531	−0.4544		+79 23 34.07	−17.654	−0.438		8	3.78
1062	Fedor. 1629 s. p.	6.7	6 53.634	6.4531	−0.4544		+79 23 34.31	17.654	0.438		8 9	3.72 3.83
1063	Weisse$_2$ X 77	7.0	7 35.978	3.4169	−0.0213		+28 41 12.52	17.683	0.227		8	3.52
1064	Fedor. 1653 *pr.*	6.6	10 36.473	4.9085	−0.1783		+71 30 37.50	17.806	0.321		8	4.12
1065	Fedor. 1653 *pr.* s. p.	6.6	10 10 36.528	+ 4.9085	−0.1783		+71 30 37.60	−17.806	−0.321		8 9	3.22 3.40
1066	32 Ursæ Maj	5.7	10 11 30.545	+ 4.4130	−0.1135	−0.0144	+65 33 27.80	−17.842	−0.286	−0.013	8 16	3.53 4.62
1067	Bradley 1424	5.9	11 33.309	3.3430	−0.0174	−0.0152	+23 57 2.47	17.843	0.214	+0.021	8	4.04
1068	λ Ursæ Maj	3.5	11 40.298	3.6472	−0.0382	−0.0149	+43 21 50.62	17.848	0.234	−0.045	13 9	4.86 4.32
1069	ζ Leonis	3.6	11 41.182	3.3417	−0.0173	+0.0016	+23 51 57.70	17.849	0.214	−0.015	82 68	4.50 4.57
1070	Bradley 1426	5.7	10 11 50.914	+ 3.2260	−0.0109	−0.0016	+14 10 38.59	−17.855	−0.206	−0.027	9	3.92
1071	Rad. 90, 2651	6.6	10 12 14.869	+ 2.8657	+0.0046		−18 51 33.85	−17.871	−0.182		8	3.62
1072	22 Sextantis	5.4	13 9.377	2.9922	+0.0001	−0.0108	− 7 37 9.46	17.907	0.188	+0.002	8	3.78
1073	Piazzi X 39	5.6	13 59.972	2.7482	+0.0083	−0.0021	−28 32 30.79	17.940	0.171	0.000	9	3.49
1074	138 B. Ursæ Maj	6.2	14 42.158	3.9086	−0.0620	−0.0019	+54 40 7.78	17.967	0.245	−0.016	8	3.59
1075	γ Leonis *pr.*	2.6	10 15 0.829	+ 3.2911	−0.0147	+0.0215	+20 17 48.44	−17.979	−0.204	−0.153	9	4.37
1076	Bradley 1435	6.5	10 16 23.130	+ 3.1005	−0.0046	−0.0005	+ 2 44 33.61	−18.032	−0.190	+0.002	8	3.63
1077	29 H. Camelop.	5.6	16 42.197	9.3592	−1.4842	−0.089	+84 42 36.51	18.045	0.587	−0.041	9 8	3.96 3.78
1078	29 H. Camelop. s. p.	5.6	16 42.201	9.3592	−1.4842	−0.089	+84 42 36.43	18.045	0.587	−0.041	8	3.72
1079	μ Ursæ Maj	3.2	16 58.234	3.5946	−0.0358	−0.0073	+41 57 8.84	18.054	0.220	+0.020	20 15	5.53 5.30
1080	Paris 12690	6.5	10 17 14.549	+ 2.8235	+0.0066	−0.0041	−23 15 28.25	−18.065	−0.171	+0.028	8	3.71
1081	30 H. Ursæ Maj	4.9	10 17 39.248	+ 4.3701	−0.1154	−0.0018	+66 1 18.50	−18.080	−0.267	−0.023	8 12	3.73 4.58
1082	Bradley 1438	5.8	17 55.451	3.4662	−0.0265	−0.0012	+34 21 46.32	18.090	0.210	−0.022	8	3.58
1083	30 H. Camelop.	5.3	20 11.425	7.6753	−0.8883	−0.045	+83 1 1.81	18.175	0.464	+0.024	48 45	4.05 4.01
1084	30 H. Camelop. s. p.	5.3	20 11.382	7.6753	−0.8883	−0.045	+83 1 1.71	18.175	0.464	+0.024	54 64	4.53 4.40
1085	Piazzi X 64	5.9	10 20 30.630	+ 3.1640	−0.0078	+0.0008	+ 9 14 32.89	−18.187	−0.186	−0.043	8	4.18
1086	Lac. 4286	6.8	10 21 14.687	+ 2.7664	+0.0090		−28 44 12.28	−18.214	−0.161		8	3.68
1087	μ Hydræ	4.1	21 44.142	2.9093	+0.0042	−0.0089	−16 22 36.28	18.232	0.169	−0.084	8	3.80
1088	Fedor. 1685	7.0	21 46.214	4.0367	−0.0802		+60 3 22.12	18.233	0.237		8	3.52
1089	31 Leonis Min	4.4	22 40.879	3.4899	−0.0294	−0.0099	+37 10 7.06	18.266	0.202	−0.110	16 8	4.74 3.58
1090	α Antliæ	4.4	10 23 1.872	+ 2.7479	+0.0098	−0.0053	−30 36 33.05	−18.278	−0.157	0.000	8	3.71
1091	Weisse$_2$ X 408	7.2	10 23 36.751	+ 3.2312	−0.0118		+16 12 54.70	−18.299	−0.185		8	3.56
1092	Weisse$_2$ X 437	6.9	24 50.997	3.3718	−0.0212		+29 2 30.80	18.343	0.191		8	3.74
1093	36 Ursæ Maj	4.8	24 52.379	3.8849	−0.0663	−0.0215	+56 26 32.48	18.344	0.221	−0.038	8 17	3.76 4.76
1094	29 Sextantis	5.2	24 54.392	3.0511	−0.0018	−0.0032	− 2 16 41.65	18.345	0.172	−0.019	8	3.67
1095	9 H. Draconis	5.0	10 27 28.268	+ 5.2062	−0.2703	−0.0079	+76 10 37.00	−18.434	−0.290	−0.010	8	3.65

1064. Comp., 7ᵐ.2, 17″, s. f.

1075. Comp., 3ᵐ.8, 3″.7, s. f.

[From observations in 1911–1918]

No.	Name	Magnitude	Right Ascension 1910.0	Annual Precession 1910.0	Secular Variation 1910.0	Annual Proper Motion	Declination 1910.0	Annual Precession 1910.0	Secular Variation 1910.0	Annual Proper Motion	Number of Observations	Mean Date
			h m s	s	s	"	° ′ ″	"	"	"		1910+
1096	9 H. Draconis s. P	5.0	10 27 28.240	+5.2062	−0.2703	−0.0079	+76 10 37.22	−18.434	−0.290	−0.010	8 10	3.28 3.59
1097	Groomb. 1658	4.8	27 59.009	3.5247	−0.0338	−0.0125	+40 53 19.77	18.452	0.193	−0.007	8	4.14
1098	ρ Leonis	3.8	28 4.358	3.1624	−0.0079	−0.0005	+ 9 46 11.84	18.455	0.172	−0.006	71 50	4.28 4.39
1099	Bradley 1465	5.6	28 22.270	3.4429	−0.0273	−0.0028	+35 27 8.60	18.465	0.187	−0.021	8	3.52
1100	37 Ursæ Maj	5.2	10 29 22.318	+3.8820	−0.0693	+0.0083	+57 32 47.61	−18.499	−0.210	+0.031	8	3.53
1101	Weisse$_2$ X 524	7.3	10 29 29.328	+3.2809	−0.0155		+22 3 30.14	−18.503	−0.176		8	3.78
1102	44 Hydræ	5.3	29 43.910	2.8519	+0.0075	−0.0002	−23 16 52.46	18.511	0.152	+0.008	8	3.64
1103	Weisse$_1$ X 489	6.7	30 27.653	3.0963	−0.0040		+ 2 40 11.06	18.536	0.164		8	3.71
1104	B. D.+39° 2366	7.8	30 39	3.4838	−0.0312		+38 59 47.85	18.542	0.185		-- 4	--- 7.28
1105	Yarnall 4514	5.8	10 32 3.477	+2.9685	+0.0028	+0.0181	−11 44 51.48	−18.588	−0.154	−0.684	8	3.68
1106	Weisse$_1$ X 532	7.1	10 32 30.545	+2.9993	+0.0013		− 8 22 19.08	−18.603	−0.155		8	4.11
1107	37 Leonis Min	4.8	33 39.451	3.3851	−0.0240	+0.0005	+32 26	18.640	0.174	−0.003	3 --	5.62 ---
1108	φ Hydræ	5.1	34 11.723	2.9286	+0.0049	−0.0076	−16 24 32.89	18.657	0.148	+0.020	8	3.50
1109	Bradley 1458	6.7	34 39.507	6.1071	−0.5203	+0.0083	+80 53 49.64	18.672	0.316	+0.013	8	3.77
1110	Bradley 1458 s. P	6.7	10 34 39.367	+6.1071	−0.5203	+0.0083	+80 53 49.44	−18.672	−0.316	+0.013	8	3.70
1111	Oeltzen 11017	7.3	10 34 45.736	+3.5990	−0.0433		+47 18 37.16	−18.675	−0.183		8	3.64
1112	33 Sextantis	6.4	36 49.422	3.0620	−0.0018	−0.0094	− 1 16 6.46	18.740	0.150	−0.129	8 12	3.73 4.57
1113	Weisse$_1$ X 618	7.3	37 32.548	3.1625	−0.0081		+10 49 36.16	18.762	0.154		8	3.66
1114	34 Sextantis	6.6	37 58.605	3.1057	−0.0044	−0.0062	+ 4 3 13.13	18.776	0.150	+0.021	8	3.74
1115	41 Leonis Min	5.0	10 38 31.400	+3.2763	−0.0164	−0.0083	+23 39 35.13	−18.793	−0.158	+0.005	9	3.65
1116	Bradley 1487	6.0	10 38 40.612	+3.1149	−0.0050	+0.0020	+ 5 13 12.14	−18.797	−0.150	−0.033	8	4.13
1117	Lal. 20729	6.8	40 9.219	2.8740	+0.0084		−23 30 47.44	18.842	0.135		8	3.54
1118	42 Leonis Min	5.4	40 51.744	3.3460	−0.0224	−0.0020	+31 9 23.16	18.863	0.157	−0.041	10 8	4.18 3.78
1119	Bradley 1492	5.6	41 33.707	3.2302	−0.0132	+0.0062	+19 21 58.13	18.883	0.150	−0.048	8	3.55
1120	Brisbane 3200	6.9	10 42 25.948	+2.8602	+0.0095	−0.0129	−25 34 30.78	−18.909	−0.130	+0.033	8	3.74
1121	Weisse$_1$ X 733	6.2	10 44 5.141	+3.0613	−0.0014		− 1 29 1.15	−18.956	−0.137		8	3.78
1122	l Leonis	5.3	44 31.601	3.1567	−0.0080	−0.0001	+11 1 17.76	18.969	0.141	−0.033	8	3.64
1123	Bradley 1501	6.1	44 57.047	3.3054	−0.0198	−0.0002	+28 26 57.67	18.981	0.147	+0.021	8	3.68
1124	ν Hydræ	3.3	45 10.988	2.9519	+0.0053	+0.0065	−15 43 20.37	18.987	0.130	+0.193	79 66	3.90 4.18
1125	Piazzi X 171	6.6	10 47 8.297	+3.6265	−0.0534	−0.0072	+52 58 57.52	−19.041	−0.157	−0.062	8	3.75
1126	B. D.+39° 2386	7.5	10 47 30	+3.4070	−0.0299		+38 48 48.84	−19.051	−0.146		-- 4	--- 7.29
1127	46 Leonis Min	3.9	48 16.889	3.3574	−0.0254	+0.0074	+34 41 59.88	19.072	0.143	−0.290	10	3.58
1128	ω Ursæ Maj	4.8	48 48.161	3.4625	−0.0361	+0.0042	+43 40 9.46	19.087	0.146	−0.035	12 8	4.26 3.75
1129	Lal. 20978	5.8	49 49.605	2.9775	+0.0045	+0.0006	−13 16 44.44	19.114	0.123	+0.028	9	3.99
1130	54 Leonis	4.5	10 50 44.509	+3.2599	−0.0170	−0.0055	+25 13 47.77	−19.138	−0.133	−0.017	8 12	3.63 4.51
1131	Bradley 1517	6.0	10 51 4.582	+3.0809	−0.0024	+0.0068	+ 1 13 1.38	−19.146	−0.125	−0.011	8	3.76
1132	ι Antliæ	4.7	52 31	2.7840	+0.0156	+0.0073	−36 39 15.02	19.184	0.110	−0.139	-- 9	--- 7.54
1133	Groomb. 1706	6.3	52 46.887	4.9304	−0.3062	−0.0248	+78 15 9.04	19.190	0.200	−0.027	8 7	3.63 3.69
1134	Groomb. 1706 s. P.	6.3	52 46.870	4.9304	−0.3062	−0.0248	+78 15 9.11	19.190	0.200	−0.027	6 8	3.09 3.72
1135	Weisse$_2$ X 1021	6.9	10 53 48.811	+3.2118	−0.0132		+20 6 15.09	−19.216	−0.125		8	3.60
1136	47 Ursæ Maj	5.1	10 54 25.630	+3.3994	−0.0319	−0.0280	+40 54 40.21	−19.231	−0.132	+0.050	9	3.94
1137	Lal. 21100	7.0	54 31.322	2.9419	+0.0075		−19 7 15.72	19.233	0.113		8	4.11
1138	B. D.+36° 2139	6.2	54 31.639	3.3520	−0.0269	+0.0064	+36 34 35.68	19.234	0.130	−0.056	8 7	3.53 3.59
1139	Weisse$_1$ X 936	7.1	54 47.158	3.0074	+0.0032		− 9 50 35.12	19.240	0.115		8	3.81
1140*	Weisse$_1$ X 937	6.4	10 54 58.903	+3.1533	−0.0082	−0.0170	+12 11 14.08	−19.245	−0.121	+0.042	8	3.74
1141	α Crateris	4.2	10 55 23.153	+2.9530	+0.0069	−0.0326	−17 49 9.13	−19.255	−0.112	+0.121	9 13	3.65 4.46
1142	d Leonis	5.0	55 54.752	3.0990	−0.0037	+0.0006	+ 4 6 3.01	19.267	0.117	−0.021	8	3.60
1143	β Ursæ Maj	2.4	56 25.081	3.6332	−0.0619	+0.0102	+56 51 54.73	19.280	0.137	+0.028	21 19	5.25 5.31
1144	β Ursæ Maj. s. P	2.4	56 25	3.6332	−0.0619	+0.0102	+56 51 54.05	19.280	0.137	+0.028	-- 32	--- 4.89
1145*	Rad. 45, 2610	7.1	10 57 48.943	+3.7501	−0.0802	−0.0191	+62 8 24.54	−19.313	−0.138	−0.077	8	3.65
1146	Weisse$_1$ X 991	7.1	10 58 2.037	+3.0536	0.0000		− 3 1 41.38	−19.318	−0.111		8	4.19
1147	α Ursæ Maj	2.0	58 10.840	3.7490	−0.0805	−0.0168	+62 14 13.10	19.321	0.137	−0.074	10	3.73
1148	α Ursæ Maj. s. P	2.0	58 10	3.7490	−0.0805	−0.0168	+62 14 13.84	19.321	0.137	−0.074	-- 8	--- 3.59
1149	Weisse$_2$ X 1143	7.3	59 43.994	3.2889	−0.0220		+31 55 17.51	19.357	0.116		8	3.58
1150	B. D.+39° 2419	7.6	10 59 57	+3.3518	−0.0290		+38 53 47.17	−19.362	−0.118		-- 4	--- 7.29

1116. Comp., 7m.6, 7″, s. pr.

1130. Comp., 6m.3, 6″.4, s. f.

[From observations in 1911–1918]

No.	Name	Magnitude	Right Ascension 1910.0	Annual Precession 1910.0	Secular Variation 1910.0	Annual Proper Motion	Declination 1910.0	Annual Precession 1910.0	Secular Variation 1910.0	Annual Proper Motion	Number of Observations	Mean Date
			h m s	s	s	s	° ′ ″	″	″	″		1910+
1151	χ Leonis	4.7	11 0 22.401	+3.1198	−0.0055	−0.0233	+ 7 49 21.60	−19.371	−0.109	−0.047	9	3.90
1152	χ Hydræ	5.1	0 59.576	2.9006	+0.0117	−0.0153	−26 48 27.70	19.385	0.099	−0.013	9	3.58
1153	Weisse$_1$ X 1046	6.1	1 2.899	3.0089	+0.0039	------	−10 36 4.60	19.386	0.103	-----	8	3.78
1154	Weisse$_2$ X 1188	6.6	1 57.826	3.1828	−0.0115	------	+18 13 27.62	19.407	0.108	-----	8	3.62
1155	Lal. 21298	7.2	11 2 7.532	+2.9465	+0.0088	------	−20 40 50.13	−19.410	−0.099	-----	8	4.17
1156	B. D.+72° 515	6.9	11 2 17.108	+4.1252	−0.1558	------	+72 26 46.60	−19.414	−0.142	-----	8 7	3.71 3.78
1157	B. D.+72° 515 s. p.	6.9	2 17.085	4.1252	−0.1558	------	+72 26 46.60	19.414	0.142	-----	8 10	3.55 3.78
1158	p^4 Leonis	5.7	2 18.650	3.0867	−0.0025	−0.0251	+ 2 26 38.69	19.414	0.104	−0.087	10 14	3.83 4.53
1159*	Carr. 1651	7.1	3 6.882	5.4767	−0.5459	−0.0534	+82 13 25.40	19.432	0.188	−0.201	9	3.65
1160*	Carr. 1651 s. p.	7.1	11 3 6.627	+5.4767	−0.5459	−0.0534	+82 13 25.15	−19.432	−0.188	−0.201	8	3.70
1161	Rad. 45, 2612	7.2	11 3 48.93	+7.866	−1.767	−0.031	+86 7 43.28	−19.447	−0.270	−0.002	8	3.66
1162	Rad. 45, 2612 s. p.	7.2	3 48.77	7.866	−1.767	−0.031	+86 7 43.09	19.447	0.270	−0.002	8	3.33
1163	Bradley 1541	5.6	3 59.449	3.2243	−0.0162	+0.0002	+25 8 44.75	19.450	0.105	−0.002	9	4.38
1164	Bradley 1544	5 5	4 22.502	2.9047	+0.0124	−0.0061	−27 35 33.37	19.458	0.094	−0.026	9	3.62
1165	ψ Ursæ Maj	3.2	11 4 36.407	+3.3922	−0.0363	−0.0055	+44 59 12.83	−19.463	−0.110	−0.038	23 20	6.07 6.18
1166	Oeltzen 11501	7.2	11 5 20.953	+3.4266	−0.0413	------	+48 17 5.87	−19.479	−0.110	-----	8	4.10
1167	B. D.+69° 602	6.4	6 26.771	3.8687	−0.1149	------	+68 45 37.88	19.501	0.122	-----	8	3.62
1168	β Crateris	4.5	7 13.747	2.9472	+0.0100	+0.0001	−22 20 4.20	19.517	0.090	−0.101	8 9	4.20 4.41
1169	Groomb. 1746	6.5	7 30.533	3.5121	−0.0554	------	+55 23 1.03	19.522	0.108	-----	8	3.78
1170	δ Leonis	2.6	11 9 19.423	+3.1851	−0.0130	+0.0106	+21 1 0.11	−19.558	−0.094	−0.145	92 55	4.72 5.11
1171	θ Leonis	3.4	11 9 31.062	+3.1558	−0.0097	−0.0043	+15 55 17.30	−19.562	−0.092	−0.086	8 12	3.53 4.44
1172	Bradley 1549	4.9	10 25.093	3.1978	−0.0147	−0.0011	+23 35 9.80	19.579	0.092	−0.010	8	4.10
1173	Lal. 21511	6.8	10 49.868	2.9737	+0.0087	------	−19 8 49.98	19.586	0.084	-----	10	3.65
1174	n Leonis	5.5	11 9.428	3.1419	−0.0083	−0.0006	+13 47 55.09	19.593	0.089	−0.026	8	3.80
1175	237 B. Ursæ Maj	6.0	11 11 37.732	+3.4058	−0.0432	−0.0093	+49 58 3.23	−19.601	−0.096	−0.019	8	3.66
1176	φ Leonis	4.6	11 12 5.100	+3.0572	+0.0008	−0.0075	− 3 9 34.56	−19.609	−0.084	−0.044	8	3.62
1177	Weisse$_1$ XI 148	6.0	12 24.408	3.0404	+0.0026	------	− 6 38 37.05	19.615	0.083	-----	9	3.84
1178	Bradley 1552	5.4	12 39.501	3.0845	−0.0020	+0.0032	+ 2 30 19.30	19.620	0.084	−0.152	8	3.76
1179	ν Ursæ Maj	3.7	13 37.161	3.2509	−0.0224	−0.0018	+33 35 7.80	19.637	0.087	+0.015	29 24	6.10 6.16
1180	Bradley 1555	4.8	11 14 13.751	+3.2848	−0.0274	−0.0049	+38 40 45.29	−19.648	−0.087	−0.084	9	3.72
1181*	Weisse$_1$ XI 193	7.0	11 14 47.793	+3.0672	−0.0001	−0.0153	− 1 9 32.35	−19.657	−0.079	−0.139	8	4.17
1182	δ Crateris	3.8	14 50.335	3.0059	+0.0065	−0.0085	−14 17 28.04	19.658	0.078	+0.195	10 14	3.53 4.31
1183	σ Leonis	4.1	16 29.707	3.1014	−0.0040	−0.0063	+ 6 31 21.48	19.686	0.077	−0.015	8	4.11
1184	249 B. Ursæ Maj	6.0	17 30.913	3.5965	−0.0844	−0.0007	+64 49 23.46	19.702	0.088	+0.036	8	3.68
1185	ι Leonis	4.0	11 19 14.036	+3.1186	−0.0063	+0.0105	+11 1 30.05	−19.730	−0.072	−0.085	8 12	3.64 4.52
1186	γ Crateris	4.1	11 20 23.007	+3.0014	+0.0084	−0.0075	−17 11 22.85	−19.747	−0.067	−0.003	8	3.75
1187	Oeltzen 11751	7.2	20 53.979	3.3696	−0.0464	------	+52 37 37.85	19.755	0.075	-----	8	3.84
1188	Bradley 1565	5.6	20 54.797	3.1417	−0.0097	−0.0099	+16 57 4.62	19.755	0.069	−0.023	8	3.54
1189	Lal. 21737	7.2	20 59.533	3.1891	−0.0167	------	+27 14 30.42	19.756	0.070	-----	9	4.30
1190	29 G. Centauri	5.3	11 21 7.415	+2.9112	+0.0186	−0.0101	−35 34 8.31	−19.758	−0.063	+0.007	8	3.62
1191	Weisse$_1$ XI 321	6.8	11 21 38.417	+3.1084	−0.0052	+0.0002	+ 9 9 17.55	−19.766	−0.067	−0.048	8	4.23
1192	Lal. 21780	6.8	22 4.783	2.9886	+0.0104	------	−20 51 41.69	19.772	0.063	-----	8	3.68
1193	κ Crateris	6.0	22 37.375	3.0270	+0.0058	−0.0072	−11 51 43.87	19.780	0.063	+0.013	8 9	4.16 4.38
1194	τ Leonis	5.2	23 18.511	3.0850	−0.0019	+0.0013	+ 3 21 6.89	19.790	0.063	−0.019	8	3.74
1195	Lac. 4758	6.8	11 25 9.984	+2.9670	+0.0143	------	−27 32 4.48	−19.815	−0.057	-----	8	4.20
1196*	Weisse$_2$ XI 413	6.8	11 25 18.373	+3.1911	−0.0188	−0.0078	+30 27 55.29	−19.817	−0.062	−0.197	8	3.68
1197	Groomb. 1782	6.1	25 31.510	4.4324	−0.3787	−0.0648	+81 37 22.29	19.820	0.088	+0.039	8	3.74
1198	Groomb. 1782 s. p.	6.1	25 31.467	4.4324	−0.3787	−0.0648	+81 37 22.19	19.820	0.088	+0.039	8	3.33
1199	58 Ursæ Maj	5.9	25 39.085	3.2630	−0.0318	−0.0048	+43 40 2.96	19.821	0.063	+0.071	8	3.79
1200	e Leonis	5.1	11 25 42.939	+3.0638	+0.0012	+0.0013	− 2 30 24.94	−19.822	−0.058	−0.017	8	3.80
1201	λ Draconis	4.1	11 26 4.299	+3.6091	−0.1087	−0.0074	+69 49 40.57	−19.827	−0.069	−0.024	20 19	5.98 5.91
1202	λ Draconis s. p.	4.1	26 4.309	3.6091	−0.1087	−0.0074	+69 49 40.45	19.827	0.069	−0.024	10 15	3.76 5.26
1203	ξ Hydræ	3.7	28 34.286	2.9612	+0.0169	−0.0159	−31 21 35.00	19.858	0.051	−0.051	9	3.65
1204	Bradley 1582	5.8	29 45.494	3.0835	−0.0017	−0.0123	+ 3 33 36.12	19.872	0.051	−0.111	8	4.12
1205	Weisse$_2$ XI 509	6.4	11 30 22.072	+3.1385	−0.0116	------	+20 56 20.38	−19.879	−0.051	-----	8	3.76

1181. Comp., 8^m.0, 9″.5, s. pr.

1185. Comp., 6^m.8, 2″.6, n. f.

[From observations in 1911–1918]

No.	Name	Magnitude	Right Ascension 1910.0	Annual Precession 1910.0	Secular Variation 1910.0	Annual Proper Motion	Declination 1910.0	Annual Precession 1910.0	Secular Variation 1910.0	Annual Proper Motion	Number of Observations	Mean Date
			h m s	s	s	s	° ′ ″	″	″	″		1910+
1206	Weisse$_1$ XI 474	6.6	11 30 23.541	+3.0609	+0.0022	−0.0018	− 3 51 45.81	−19.879	−0.049	−0.016	8	3.81
1207	Weisse$_1$ XI 481	6.7	30 52.078	3.1076	−0.0061	------	+11 41 12.96	19.884	0.049	-----	8	3.67
1208	Groomb. 1803	6.7	32 4.565	3.8428	−0.2112	------	+78 5 37.82	19.897	0.060	-----	8 9	4.15 4.37
1209	Groomb. 1803 s. p	6.7	32 4.544	3.8428	−0.2112	------	+78 5 37.08	19.897	0.060	-----	8	3.36
1210	θ Crateris	4.8	11 32 6.868	+3.0460	+0.0050	−0.0041	− 9 18 16.25	−19.898	−0.045	+0.001	8	3.81
1211	υ Leonis	4.5	11 32 20.395	+3.0716	+0.0005	0.0000	− 0 19 36.46	−19.900	−0.045	+0.035	8 12	3.76 4.60
1212	60 Ursæ Maj	6.2	33 43.720	3.2384	−0.0354	------	+47 19 59.98	19.914	0.046	-----	8	3.67
1213	Lal. 22104	6.5	35 17.248	3.0310	+0.0088	------	−16 7 17.05	19.930	0.039	-----	8	4.15
1214	o Hydræ	4.9	35 44.343	2.9764	+0.0195	−0.0024	−34 14 45.11	19.934	0.037	+0.001	8	3.69
1215	Lal. 22115	7.4	11 36 1.682	+3.0531	+0.0046	------	− 7 54 23.67	−19.936	−0.038	-----	9	3.98
1216	Bradley 1593	5.5	11 36 18.772	+3.1680	−0.0214	−0.0007	+34 42 34.73	−19.939	−0.039	−0.390	13 8	4.64 3.56
1217	3 Draconis	5.5	37 27.623	3.3853	−0.0849	−0.0077	+67 14 35.16	19.949	0.040	+0.036	8 12	3.80 4.62
1218	3 Draconis s. p	5.5	37 27.614	3.3853	−0.0849	−0.0077	+67 14 35.36	19.949	0.040	+0.036	8 9	3.50 3.64
1219	ζ Crateris	4.9	40 11.939	3.0354	+0.0101	+0.0024	−17 51 1.49	19.971	0.030	−0.039	8	3.78
1220	Weisse$_2$ XI 750	7.2	11 40 52.234	+3.1546	−0.0224	------	+36 23 36.30	−19.976	−0.030	-----	9	3.71
1221	χ Ursæ Maj	3.8	11 41 18.042	+3.1946	−0.0353	−0.0136	+48 16 42.56	−19.979	−0.029	+0.016	8 12	3.70 4.56
1222	Groomb. 1825	5.4	42 6.845	3.2277	−0.0481	+0.0019	+56 7 43.60	19.985	0.028	−0.040	8 9	4.16 4.36
1223	Groomb. 1826	6.6	42 16.743	3.2659	−0.0620	------	+61 54 9.91	19.986	0.028	-----	8	3.75
1224	Bradley 1602	5.2	43 17.424	3.0875	−0.0037	−0.0034	+ 8 44 44.66	19.993	0.024	+0.001	8	4.18
1225	Bradley 1603	4.5	11 43 20.578	+3.1092	−0.0106	−0.0110	+20 43 8.60	−19.993	−0.024	−0.020	8	3.63
1226	Weisse$_2$ XI 799	7.2	11 43 45.170	+3.1248	−0.0161	------	+28 55 2.46	−19.996	−0.024	-----	8 9	4.22 4.43
1227	β Leonis	2.2	44 27.995	3.0969	−0.0072	−0.0342	+15 4 29.72	20.000	0.022	−0.123	94 38	4.72 5.49
1228	β Virginis	3.8	46 0.594	3.0758	−0.0001	+0.0495	+ 2 16 17.66	20.009	0.019	−0.279	49 29	4.15 4.18
1229	Lac. 4905	6.5	46 4.171	3.0316	+0.0157	−0.0060	−26 46 39.23	20.009	0.018	+0.014	8	3.79
1230	Piazzi XI 167	5.8	11 46 26.093	+3.0659	+0.0036	+0.0004	− 4 49 58.56	−20.011	−0.018	−0.012	8	4.14
1231	B. D.−11°3190	6.2	11 46 47.859	+3.0566	+0.0072	------	−11 41 18.33	−20.013	−0.017	-----	8	3.71
1232	B. D.−20°3522	7.5	46 58.558	3.0432	+0.0124	------	−21 8 7.57	20.014	0.017	-----	8	4.25
1233	Lac. 4913	6.0	47 8.305	3.0287	+0.0181	−0.0022	−30 19 37.90	20.014	0.016	−0.309	9	3.72
1234	Oeltzen 12130	7.1	47 31.673	3.1605	−0.0370	------	+50 25 53.89	20.016	0.017	-----	8	3.78
1235	Groomb. 1830	6.5	11 47 49.275	+3.1288	−0.0233	+0.3402	+38 21 27.61	−20.018	−0.016	−5.804	13 10	4.79 4.21
1236	Piazzi XI 170	6.7	11 48 7.946	+3.0923	−0.0074	+0.0027	+15 56 18.34	−20.019	−0.015	−0.064	8	3.63
1237	β Hydræ *mean*	4.4	48 21.499	3.0278	+0.0203	−0.0045	−33 24 25.93	20.020	0.014	−0.006	8	4.22
1238	γ Ursæ Maj	2.5	49 6.123	3.1606	−0.0425	+0.0107	+54 11 43.01	20.023	0.013	+0.003	21 23	5.00 5.24
1239	γ Ursæ Maj. s. p	2.5	49 6	3.1606	−0.0425	+0.0107	+54 11 44.96	20.023	0.013	+0.003	-- 23	--- 5.04
1240	η Crateris	5.2	11 51 25.601	+3.0576	+0.0103	−0.0033	−16 38 59.24	−20.032	−0.008	−0.019	10	3.73
1241*	Groomb. 1841	6.5	11 52 36.830	+3.1098	−0.0250	−0.0152	+40 50 45.91	−20.036	−0.006	−0.065	8	3.60
1242*	Weisse$_2$ XI 991	6.3	53 29.845	3.0969	−0.0180	−0.0089	+32 46 34.76	20.038	−0.004	−0.054	8	3.75
1243	b Virginis	5.2	55 20.268	3.0745	−0.0006	−0.0011	+ 4 9 22.93	20.042	−0.001	−0.018	9 8	3.56 3.63
1244	Lal. 22573	7.1	55 28.195	3.0821	−0.0093	------	+19 55 15.72	20.042	0.000	-----	8	3.80
1245	Pulk. 55, 1811	5.6	11 56 7.277	+3.0686	+0.0069	+0.0074	− 9 56 1.38	−20.043	+0.001	−0.479	8	3.68
1246	π Virginis	4.6	11 56 15.631	+3.0752	−0.0021	−0.0003	+ 7 6 58.26	−20.043	+0.001	−0.033	8 10	3.79 4.29
1247	Weisse$_2$ XI 926	6.9	56 37.179	3.0770	−0.0052	------	+12 52 44.08	20.044	0.002	-----	8	3.63
1248	Oeltzen 12261	7.2	11 57 0.481	3.1107	−0.0653	------	+65 26 27.11	20.044	0.003	-----	9	4.39
1249	128 H 1. Camelop	6.4	12 0 12.90	3.054	−0.429	−0.058	+86 5 9.16	20.046	0.009	+0.088	8	3.67
1250	128 H 1. Camelop. s. p	6.4	12 0 12.49	+3.054	−0.429	−0.058	+86 5 9.18	−20.046	+0.009	+0.088	9 11	3.61 3.81
1251	o Virginis	4.2	12 0 37.391	+3.0719	−0.0030	−0.0147	+ 9 13 58.29	−20.046	+0.010	+0.038	97 72	3.99 4.04
1252	Oeltzen 12335	7.8	1 32.721	3.0619	−0.0330	------	+49 39 33.16	20.046	0.012	-----	8	3.77
1253	Weisse$_1$ XI 1008	6.7	2 10.785	3.0752	+0.0082	------	−11 44 23.43	20.045	0.013	-----	8	4.14
1254	Piazzi XI 234	6.9	2 24.269	3.0786	+0.0149	------	−23 15 58.31	20.045	0.013	-----	10 9	3.56 3.61
1255	Groomb. 1854	7.3	12 4 54.410	+3.0492	−0.0218	------	+39 8 2.56	−20.041	+0.018	-----	8 13	4.19 5.30
1256	10 Virginis	6.1	12 5 4.546	+3.0713	+0.0009	+0.0030	+ 2 24 10.84	−20.041	+0.018	−0.184	8	3.84
1257	Bradley 1627	5.7	5 28.112	3.0690	−0.0011	−0.0111	+ 6 18 26.12	20.040	0.019	+0.017	8	3.76
1258	ϵ Corvi	3.2	5 29.590	3.0855	+0.0144	−0.0047	−22 7 9.28	20.040	0.019	+0.007	8	3.82
1259	Bradley 1628	6.3	5 56.378	3.0617	−0.0070	−0.0007	+17 18 35.94	20.039	0.020	−0.009	8	3.65
1260*	Weisse$_1$ XII 45	7.1	12 6 45.062	+3.0740	+0.0034	0.000	− 2 11 48.19	−20.037	+0.022	−0.06	8	3.86

1237. Double, $5^m.1$, $5^m.5$, $1''.7$, slow binary.

[From observations in 1911–1918]

No.	Name	Magnitude	Right Ascension 1910.0	Annual Precession 1910.0	Secular Variation 1910.0	Annual Proper Motion	Declination 1910.0	Annual Precession 1910.0	Secular Variation 1910.0	Annual Proper Motion	Number of Observations	Mean Date
			h m s	s	s	s	° ′ ″	″	″	″		1910+
1261	Bradley 1630	5.8	12 7 17.211	+3.0515	−0.0123	−0.0037	+26 22 17.87	−20.036	+0.023	−0.038	8	3.65
1262	Oeltzen 11982	7.4	7 19.922	3.0933	+0.0167	.....	−25 26 26.96	20.036	0.023	.....	8 7	4.17 4.44
1263	4 H. Draconis	5.1	7 59.640	2.8510	−0.1190	+0.0032	+78 6 58.59	20.034	0.023	+0.018	10 12	3.73 4.16
1264	4 H. Draconis s. p.	5.1	7 59.596	2.8510	−0.1190	+0.0032	+78 6 58.46	20.034	0.023	+0.018	8 10	3.36 3.68
1265	Bradley 1635	5.8	12 8 50.900	+3.0627	−0.0033	−0.0061	+10 45 46.79	−20.031	+0.026	−0.033	8	3.69
1266	δ Ursæ Maj	3.4	12 10 58.544	+2.9719	−0.0413	+0.0137	+57 31 57.49	−20.023	+0.029	+0.003	8 10	3.81 4.31
1267	γ Corvi	2.8	11 10.445	3.0925	+0.0117	−0.0112	−17 2 32.02	20.022	0.030	+0.011	22 21	6.23 6.18
1268	Groomb. 1865	6.6	11 28.028	2.8532	−0.0813	.....	+73 3 6.99	20.021	0.029	.....	8	3.68
1269	Groomb. 1865 s. p.	6.6	11 28.013	2.8532	−0.0813	.....	+73 3 6.78	20.021	0.029	.....	8	3.28
1270	2 Canum Ven	5.8	12 11 37.067	+3.0133	−0.0225	+0.0019	+41 9 40.23	−20.020	+0.031	−0.046	12 8	4.84 3.88
1271	Bradley 1641	5.1	12 11 47.339	+3.0413	−0.0108	−0.0016	+24 26 44.29	−20.020	+0.031	−0.018	8	3.73
1272*	Lal. 23006	6.0	12 24.653	3.0935	+0.0113	−0.006	−16 11 37.77	20.016	0.033	+0.02	8	4.20
1273*	Weisse 2 XII 225	6.1	13 59.464	3.0240	−0.0145	+0.0071	+30 45 5.70	20.009	0.035	−0.117	8	3.71
1274	Bradley 1643	5.9	14 3.380	3.0729	+0.0028	+0.0016	− 0 17 13.22	20.008	0.036	−0.018	8	4.17
1275	Bradley 1672	6.3	12 14 26.22	+0.398	+0.707	−0.072	+88 11 55.81	−20.006	+0.012	+0.058	32 40	3.94 4.16
1276	Bradley 1672 s. p.	6.3	12 14 26.02	+0.398	+0.707	−0.072	+88 11 55.69	−20.006	+0.012	+0.058	32 39	4.64 4.57
1277	Bradley 1644	7.0	14 42.155	3.0852	+0.0071	+0.0008	− 8 24 52.23	20.005	0.037	−0.033	7	3.66
1278	η Virginis	4.0	15 17.987	3.0728	+0.0028	−0.0041	− 0 10 0.34	20.001	0.038	−0.025	64 58	3.77 3.77
1279	c Virginis	5.1	15 46.588	3.0664	+0.0008	−0.0198	+ 3 48 49.27	19.998	0.039	−0.078	8	3.83
1280	Bradley 1655	5.7	12 16 29.425	+2.9166	−0.0406	+0.0055	+58 21 54.70	−19.994	+0.039	−0.071	8	3.62
1281	Bradley 1662	5.0	12 19 39.266	+2.9257	−0.0315	+0.0010	+52 3 38.78	−19.972	+0.045	+0.007	8	3.74
1282	Lac. 5144	6.3	20 35.452	3.1343	+0.0189	.....	−27 15 1.06	19.965	0.049	.....	8 9	4.58 4.33
1283	Groomb. 1888	6.4	20 54.657	2.8195	−0.0485	.....	+64 18 4.39	19.963	0.046	.....	8	3.62
1284	B. D.+39° 2520	7.6	20 59	2.9740	−0.0193	.....	+38 50 48.25	19.962	0.048	.....	-- 4	--- 7.29
1285	6 Canum Ven	5.2	12 21 24.985	+2.9697	−0.0198	−0.0066	+39 31 3.86	−19.958	+0.049	−0.039	8	3.78
1286	15 Comæ	4.6	12 22 27.162	+3.0007	−0.0124	−0.0066	+28 46 6.39	−19.950	+0.051	−0.087	15 9	4.93 4.32
1287	Weisse 2 XII 419	7.5	23 0.963	3.0281	−0.0064	.....	+18 19 58.53	19.945	0.053	.....	8	3.60
1288	Groomb. 1894	6.8	23 8.339	2.9519	−0.0213	.....	+41 51 11.71	19.944	0.052	.....	8	3.70
1289	Bradley 1673	5.4	24 25.035	3.0019	−0.0108	−0.0014	+26 24 39.15	19.932	0.055	−0.022	8	3.81
1290	20 Comæ	5.7	12 25 11.967	+3.0151	−0.0079	+0.0027	+21 23 39.61	−19.925	+0.057	−0.046	8	3.74
1291	δ Corvi	3.1	12 25 12.220	+3.1146	+0.0120	−0.0144	−16 0 52.64	−19.925	+0.058	−0.143	8 10	3.86 4.34
1292	Piazzi XII 105	5.9	25 34.607	3.1363	+0.0165	−0.0021	−23 11 56.74	19.921	0.059	−0.009	8	3.92
1293	74 Ursæ Maj	5.4	25 45.279	2.8241	−0.0378	−0.0087	+58 54 3.47	19.919	0.055	+0.082	8	4.14
1294	Piazzi XII 108	7.1	26 12.997	3.0820	+0.0052	−0.0052	− 3 33 49.53	19.915	0.060	−0.001	8	3.82
1295	Weisse 1 XII 398	6.2	12 26 46.963	+3.0503	−0.0008	.....	+ 8 6 3.89	−19.909	+0.060	.....	8	3.67
1296	Bradley 1682	6.5	12 28 29.518	+3.0409	−0.0021	−0.0043	+10 47 31.49	−19.891	+0.064	0.000	8	3.77
1297	Pulk. 55, 1886	5.8	28 54.040	3.1093	+0.0101	−0.0018	−12 20 6.21	19.887	0.065	+0.039	9 8	3.65 3.60
1298*	Groomb. 1904	6.7	29 6.640	2.9375	−0.0180	−0.0077	+38 33 56.58	19.884	0.063	−0.016	9	4.33
1299	8 Canum Ven	4.3	29 27.908	2.9190	−0.0203	−0.0628	+41 50 48.03	19.881	0.063	+0.281	15 8	4.76 3.65
1300	κ Draconis	3.9	12 29 38.736	+2.5914	−0.0530	−0.0119	+70 17 3.23	−19.878	+0.057	+0.006	8 10	3.87 4.35
1301	κ Draconis s. p.	3.9	12 29 38.759	+2.5914	−0.0530	−0.0119	+70 17 3.47	−19.878	+0.057	+0.006	8	3.35
1302	β Corvi	2.8	29 39.401	3.1454	+0.0166	0.0000	−22 53 57.74	19.878	0.068	−0.061	8	3.73
1303	24 Comæ *seq*	5.2	30 36.908	3.0117	−0.0061	+0.0003	+18 52 20.65	19.867	0.067	+0.016	8	3.83
1304	Rad. 45, 2887	7.5	31 34.772	2.8806	−0.0234	.....	+46 16 34.24	19.856	0.066	.....	8	3.72
1305	f Virginis	5.9	12 32 9.092	+3.0900	+0.0064	−0.0020	− 5 20 9.66	−19.849	+0.071	−0.027	8	3.72
1306	Piazzi XII 142	6.0	12 33 46.903	+3.0645	+0.0025	−0.0057	+ 2 20 59.78	−19.829	+0.074	−0.027	8	3.74
1307*	Lal. 23617	6.1	34 2.501	3.1358	+0.0136	−0.0103	−17 45 21.58	19.825	0.076	+0.036	8	3.67
1308	9 Canum Ven	6.3	34 26.494	2.8963	−0.0192	−0.0019	+41 22	19.820	0.072	−0.031	5 --	6.13 ---
1309	χ Virginis	4.8	34 35.923	3.0990	+0.0077	−0.0051	− 7 30 1.71	19.818	0.076	−0.037	8	3.78
1310	Bradley 1695	5.5	12 34 38.635	+2.9930	−0.0072	−0.0053	+21 33 26.11	−19.817	+0.074	−0.020	8	3.66
1311	γ Virginis *mean*	2.9	12 37 5.725	+3.0761	+0.0044	−0.0376	− 0 57 21.64	−19.784	+0.081	+0.004	9	4.35
1312	ρ Virginis	5.0	37 19.711	3.0315	−0.0015	+0.0061	+10 43 52.84	19.781	0.080	−0.101	9	3.73
1313	76 Ursæ Maj	5.9	37 38.130	2.6399	−0.0378	−0.0038	+63 12 25.23	19.776	0.071	−0.019	9 11	3.60 4.09
1314*	Lal. 23711	6.6	37 56.669	2.9229	−0.0140	−0.0201	+34 11 3.99	19.772	0.079	−0.113	9 8	3.70 3.87
1315	330 G. Hydræ	5.7	12 39 12.486	+3.1926	+0.0207	−0.0030	−27 49 48.69	−19.753	+0.088	−0.054	8	3.66

1270. Comp., 8m, 11″.6, s. pr. 1303. Comp., 6m.7, 20″.6, pr. 1311. Binary, 3m.7, 3m.7, 6″.2.

[From observations in 1911–1918]

No.	Name	Magnitude	Right Ascension 1910.0	Annual Precession 1910.0	Secular Variation 1910.0	Annual Proper Motion	Declination 1910.0	Annual Precession 1910.0	Secular Variation 1910.0	Annual Proper Motion	Number of Observations	Mean Date
			h m s	s	s	s	° ′ ″	″	″	″		1910+
1316	B. D.–2° 3567	6.6	12 39 33.933	+3.0819	+0.0053	−0.0042	− 2 20 58.64	−19.748	+0.086	−0.007	8	3.79
1317	d^2 Virginis	5.2	41 4.160	3.0383	0.0000	−0.0076	+ 8 9 55.09	19.725	0.087	+0.001	9	3.73
1318	Groomb. 1927	6.3	42 8.770	1.5094	+0.0081	------	+81 6 51.09	19.708	0.049	-----	8	3.75
1319	Groomb. 1927 s. p.	6.3	42 8.689	1.5094	+0.0081	------	+81 6 50.92	19.708	0.049	-----	8	3.72
1320	Lal. 23844	6.3	12 43 6.378	+3.1857	+0.0184	------	−24 21 40.47	−19.692	+0.095	-----	9	4.00
1321	35 Virginis	6.7	12 43 16.376	+3.0547	+0.0022	−0.0003	+ 4 3 50.14	−19.690	+0.092	−0.012	9	3.68
1322	Lac. 5285	5.8	43 38.165	3.2020	+0.0205	−0.0101	−27 6 17.63	19.684	0.097	−0.083	8	3.85
1323	Bradley 1711	5.8	44 54.327	2.9339	−0.0098	−0.0071	+28 2 32.13	19.662	0.092	+0.011	8	3.75
1324	p Centauri	5.0	45 47.907	3.2482	+0.0259	−0.0030	−33 30 31.22	19.647	0.102	−0.036	8	3.84
1325	31 Comæ	5.1	12 47 18.888	+2.9267	−0.0096	−0.0012	+28 1 48.99	−19.620	+0.096	−0.026	10 8	3.76 3.68
1326	Bradley 1716	6.5	12 47 43.681	+2.9851	−0.0042	−0.0007	+17 33 47.50	−19.613	+0.098	−0.021	8	3.78
1327	32 H. Camelop. *pr*	5.8	48 19.868	0.4518	+0.1986	−0.015	+83 54 25.82	19.602	0.022	+0.014	8	3.83
1328	32 H. Camelop. *pr* s. p.	5.8	48 19.802	0.4518	+0.1986	−0.015	+83 54 25.77	19.602	0.022	+0.014	9	3.33
1329	32 H. Camelop. *seq*	5.3	48 27.270	0.4473	+0.1992	−0.018	+83 54 8.00	19.600	0.022	+0.015	11 12	4.44 4.78
1330	32 H. Camel. *seq.* s. p.	5.3	12 48 27.121	+0.4473	+0.1992	−0.018	+83 54 7.51	−19.600	+0.022	+0.015	15 14	5.39 5.28
1331	n Centauri	4.3	12 48 27	+3.3052	+0.0323	+0.0058	−39 41 22.52	−19.600	+0.110	−0.038	-- 7	--- 6.93
1332	Lal. 24021	6.8	49 15.199	3.1627	+0.0143	------	−17 32 57.60	19.585	0.107	-----	11 10	3.67 3.72
1333	Bradley 1720	6.3	49 18.734	3.0071	−0.0018	+0.0040	+12 54 27.35	19.584	0.102	−0.033	8	3.83
1334	Weisse$_2$ XII 950	8.1	49 27.238	2.8629	−0.0148	------	+36 13 36.65	19.581	0.098	-----	10	3.68
1335	ϵ Ursæ Maj	1.7	12 50 4.408	+2.6357	−0.0267	+0.0139	+56 26 53.96	−19.569	+0.092	−0.011	8	3.90
1336	ϵ Ursæ Maj. s. p.	1.7	12 50 4	+2.6357	−0.0267	+0.0139	+56 26 54.19	−19.569	+0.092	−0.011	-- 37	--- 4.71
1337	Weisse$_1$ XII 818	6.9	51 2.054	3.0697	+0.0044	−0.0022	+ 0 32 34.58	19.551	0.107	−0.033	8 9	4.23 4.02
1338	δ Virginis	3.7	51 4.020	3.0525	+0.0027	−0.0317	+ 3 53 10.66	19.550	0.107	−0.064	56 40	3.63 3.54
1339	Weisse$_1$ XII 821	6.1	51 9.164	3.1509	+0.0127	----	−14 50 22.81	19.549	0.110	---	9	3.75
1340	α Canum Ven. *seq*	2.9	12 51 49.012	+2.8316	−0.0149	−0.0199	+38 48 15.35	−19.536	+0.101	+0.043	25 22	6.36 6.26
1341	8 Draconis	5.3	12 51 53.735	+2.4010	−0.0317	−0.0005	+65 55 35.41	−19.534	+0.087	−0.035	8	3.78
1342	Bradley 1726	6.3	52 21.010	2.6469	−0.0247	−0.0086	+54 35 11.12	19.525	0.096	−0.006	8	4.26
1343	Groomb. 1938	7.0	52 29.288	2.7791	−0.0179	------	+44 2 19.93	19.523	0.100	-----	8	3.68
1344	Weisse$_1$ XII 869	7.7	53 55.964	3.1078	+0.0082	------	− 6 27 44.92	19.493	0.114	---	9	3.71
1345	Bradley 1729	5.9	12 55 1.203	+3.0910	+0.0066	−0.0019	− 3 19 35.97	−19.471	+0.115	−0.004	8	3.84
1346	Rad. 45, 2950	6.2	12 56 7.714	+1.7769	−0.0127	------	+75 57 27.29	−19.448	+0.071	-----	8 7	3.78 3.57
1347	Rad. 45, 2950 s. p.	6.2	56 7.577	1.7769	−0.0127	------	+75 57 27.85	19.448	0.071	-----	9	3.31
1348	B. D.+32° 2311	6.7	56 7.815	2.8680	−0.0108	-----	+32 15 51.87	19.448	0.110	--	8	3.64
1349	Bradley 1736	4.9	56 52.213	2.5699	−0.0247	+0.0120	+56 51 4.83	19.432	0.100	−0.023	8	3.86
1350	ϵ Virginis	3.0	12 57 41.677	+3.0051	−0.0006	−0.0185	+11 26 33.66	−19.414	+0.118	+0.017	123 107	4.23 4.17
1351	B. D.+23° 2530	6.9	12 58 36.315	+2.9282	−0.0061	------	+23 7 17.13	−19.394	+0.116	-----	9	3.73
1352	Rad. 90, 3403	7.2	13 1 7.089	3.1579	+0.0125	------	−13 37 46.16	19.337	0.129	-----	8	3.68
1353	14 Canum Ven	5.1	1 31.979	2.8123	−0.0123	−0.0021	+36 16 ----	19.328	0.117	+0.010	14 --	5.74 ---
1354	Groomb. 1956	5.7	1 49.392	2.7069	−0.0172	+0.0004	+45 44 58.75	19.321	0.113	+0.029	8	3.68
1355	Bradley 1743	4.9	13 2 51.636	+2.8792	−0.0081	+0.0019	+28 6 26.54	−19.297	+0.122	−0.085	9	3.94
1356	ψ Hydræ	5.1	13 4 12.203	+3.2266	+0.0184	−0.0020	−22 38 13.39	−19.264	+0.138	−0.055	8	3.81
1357*	Weisse$_1$ XII 1063	6.9	4 17.171	3.0356	+0.0025	+0.0050	+ 5 42 12.02	19.262	0.131	−0.678	8	3.78
1358	θ Virginis	4.4	5 17.276	3.1058	+0.0079	−0.0026	− 5 3 31.87	19.238	0.135	−0.042	12	3.16
1359*	Weisse$_2$ XIII 25	6.2	5 22.313	2.9552	−0.0028	−0.006	+17 19 42.09	19.236	0.130	−0.02	8 10	3.36 2.96
1360	B. D.+39° 2611	6.2	13 5 33	+2.7670	−0.0131	−0.0012	+39 0 46.85	−19.231	+0.122	−0.004	-- 4	--- 7.31
1361	17 Canum Ven	6.0	13 5 55.263	+2.7656	−0.0130	−0.0063	+38 58 37.49	−19.221	+0.123	+0.028	8	3.78
1362	Groomb. 1965	6.5	6 21.409	2.3330	−0.0230	-----	+62 42 30.29	19.212	0.105	-----	8	3.68
1363	Lac. 5428	6.5	6 45.316	3.2603	+0.0211	−0.0053	−26 4 24.09	19.202	0.145	−0.009	8	3.80
1364	43 Comæ	4.3	7 40.212	2.8628	−0.0078	−0.0604	+28 20 5.72	19.178	0.130	+0.875	8	3.65
1365	Groomb. 1974	6.4	13 10 57.237	+1.7174	−0.0050	------	+73 16 32.83	−19.093	+0.084	-----	9 8	3.11 3.33
1366	Groomb. 1974 s. p.	6.4	13 10 57.183	+1.7174	−0.0050	------	+73 16 33.27	−19.093	+0.084	-----	7 8	3.07 3.29
1367	19 Canum Ven	5.7	11 29.162	2.7118	−0.0133	−0.0104	+41 19 ----	19.079	0.129	−0.001	11 --	6.92 ---
1368	Groomb. 1977	6.3	11 36.209	0.4943	+0.1277	+0.0026	+80 56 51.15	19.076	0.030	+0.006	8 7	3.34 3.62
1369	Groomb. 1977 s. p.	6.3	11 36.267	0.4943	+0.1277	+0.0026	+80 56 51.39	19.076	0.030	+0.006	8	3.30
1370	r Centauri	5.4	13 11 52.956	+3.3206	+0.0254	+0.0021	−31 1 48.34	−19.068	+0.157	−0.064	9	3.97

1332. Comp., 9m, 23″, n. pr. 1340. Comp., 5m.4, 19″.8, s. pr. 1342. Comp., 8m.2, 3″, n. pr. 1358. Comp., 9m, 7″.1, n. pr

[From observations in 1911–1918]

No.	Name	Magnitude	Right Ascension 1910.0	Annual Precession 1910.0	Secular Variation 1910.0	Annual Proper Motion	Declination 1910.0	Annual Precession 1910.0	Secular Variation 1910.0	Annual Proper Motion	Number of Observations	Mean Date
			h m s	s	s	s	° ′ ″	″	″	″		1910+
1371*	Lal. 24645	6.3	13 12 10.218	+2.9197	−0.0037	−0.0090	+20 15 34.18	−19.060	+0.140	+0.032	9	3.69
1372	Bradley 1760	5.2	12 18.344	3.0002	+0.0010	−0.0226	+ 9 53 39.61	19.057	0.144	+0.186	8	3.84
1373	Weisse$_1$ XIII 160	7.1	13 1.547	3.1333	+0.0100	+0.0010	− 8 15 28.15	19.037	0.151	.....	8 7	3.77 3.85
1374	σ Virginis	5.0	13 3.515	3.0289	+0.0029	−0.0009	+ 5 56 37.66	19.036	0.146	+0.009	9	4.05
1375	20 Canum Ven	4.7	13 13 30.413	+2.7057	−0.0129	−0.0111	+41 2 46.54	−19.024	+0.132	+0.004	17 9	5.36 3.78
1376	61 Virginis	4.8	13 13 41.366	+3.2082	+0.0156	−0.0754	−17 48 43.54	−19.019	+0.156	−1.084	8	3.70
1377	γ Hydræ	3.3	14 1.539	3.2499	+0.0189	+0.0048	−22 41 49.39	19.009	0.158	−0.051	8	3.90
1378	Lal. 24703	6.6	14 17.476	3.0416	+0.0038	.....	+ 4 9 40.66	19.002	0.149	.....	9	3.78
1379	Weisse$_2$ XIII 234	6.0	14 55.920	2.7652	−0.0102	.....	+35 36 1.88	18.984	0.138	.....	8	3.87
1380	ι Centauri	2.9	13 15 32	+3.3895	+0.0307	−0.0281	−36 14 16.51	−18.967	+0.168	−0.094	.. 55	... 4.55
1381	23 Canum Ven	5.7	13 16 16.997	+2.6980	−0.0123	−0.0051	+40 37 21.73	−18.946	+0.137	−0.020	17 8	5.45 3.80
1382	Lal. 24812	6.6	19 4.811	3.2411	+0.0176	.....	−20 27 16.15	18.864	0.168	.....	8	3.72
1383	ζ^1 Ursæ Maj	2.4	20 18.229	2.4077	−0.0167	+0.0148	+55 23 42.38	18.828	0.128	−0.030	8	3.70
1384	α Virginis	1.2	20 26.948	3.1593	+0.0116	−0.0028	−10 41 31.04	18.824	0.166	−0.036	182 176	4.22 4.17
1385	Weisse$_2$ XIII 352	7.0	13 21 15.883	+2.9392	−0.0012	.....	+16 1 56.27	−18.799	+0.157	.....	8	3.78
1386*	Weisse$_1$ XIII 295	6.0	13 21 34.665	+3.0784	+0.0065	−0.0081	− 0 43 29.12	−18.789	+0.164	+0.007	8	3.72
1387	i Virginis	5.6	21 57.696	3.1740	+0.0125	−0.0092	−12 14 22.76	18.778	0.170	−0.022	8	3.81
1388	Groomb. 2001	6.1	23 50.270	1.5226	+0.0077	+0.0056	+72 51 31.28	18.720	0.087	−0.017	8	3.88
1389	Groomb. 2001 S. P.	6.1	23 50.192	1.5226	+0.0077	+0.0056	+72 51 31.26	18.720	0.087	−0.017	6 8	2.85 3.35
1390	70 Virginis	5.2	13 24 1.568	+2.9508	−0.0003	−0.0167	+14 15 30.93	−18.714	+0.162	−0.586	8	3.78
1391	B. D.+31° 2493	7.1	13 24 9.019	+2.7772	−0.0075	.....	+31 36 54.42	−18.710	+0.153	.....	8	3.85
1392	Oeltzen 13654	6.2	24 22.490	2.4293	−0.0152	.....	+53 12 43.77	18.703	0.135	.....	8	3.76
1393	Weisse$_1$ XIII 365	6.3	25 29.238	3.0072	+0.0027	.....	+ 7 38 36.72	18.667	0.168	.....	8	3.34
1394	Weisse$_2$ XIII 474	7.2	26 46.841	2.8224	−0.0053	.....	+26 51 13.95	18.626	0.160	.....	9 8	3.63 3.69
1395	350 G. Hydræ	5.7	13 27 34.884	+3.3401	+0.0237	−0.0083	−28 13 46.25	−18.600	+0.190	−0.021	9	3.79
1396	Bradley 1786	5.4	13 28 13.450	+3.1583	+0.0113	−0.0020	− 9 42 6.10	−18.579	+0.181	−0.044	8	3.80
1397	ζ Virginis	3.4	30 6.259	3.0737	+0.0065	−0.0191	− 0 8 9.86	18.516	0.180	+0.034	70 48	3.76 4.02
1398	Bradley 1791	4.6	30 46.592	2.4693	−0.0128	−0.0120	+49 28 33.23	18.494	0.147	+0.015	8	3.86
1399	17 H. Canum Ven	5.0	30 46.755	2.6748	−0.0091	+0.0070	+37 38 35.31	18.494	0.158	−0.019	8	3.77
1400	B. D.+44° 2285	6.6	13 31 24.206	+2.5597	−0.0114	.....	+44 39 24.59	−18.473	+0.153	.....	8	3.35
1401	Weisse$_1$ XIII 515	6.7	13 33 9.649	+3.0463	+0.0052	.....	+ 2 50 27.19	−18.412	+0.183	.....	8	3.84
1402	25 Canum Ven	4.9	33 27.686	2.6767	−0.0084	−0.0086	+36 45	18.402	0.163	+0.014	1 ..	5.47 ...
1403*	Weisse$_2$ XIII 620	7.0	33 45.599	2.8470	−0.0032	−0.0106	+22 59 14.16	18.392	0.173	−0.079	8	3.69
1404	Lal. 25213	6.9	35 7.421	3.2269	+0.0152	−0.0010	−15 59 24.20	18.344	0.198	−0.022	8	3.84
1405	Pulk. 55,2035 *mean*	5.5	13 35 8.232	+2.9658	+0.0017	−0.0076	+11 12 10.93	−18.343	+0.182	−0.011	8	3.77
1406	Piazzi XIII 159	6.4	13 36 32.625	+3.3044	+0.0199	.....	−22 59 41.07	−18.293	+0.205	.....	8	3.86
1407	m Virginis	5.2	36 53.123	3.1520	+0.0108	−0.0069	− 8 14 56.85	18.281	0.196	+0.036	8	3.76
1408	Bradley 1802	4.8	37 19.495	2.2822	−0.0119	−0.0029	+55 8 12.75	18.266	0.145	−0.013	9	3.12
1409	Piazzi XIII 184	5.7	38 41.791	1.8609	−0.0052	+0.0095	+65 16 35.91	18.216	0.121	−0.013	8	3.70
1410	Weisse$_2$ XIII 749	6.0	13 38 42.770	+2.6754	−0.0074	.....	+35 26 31.76	−18.215	+0.170	.....	8 9	3.85 4.02
1411	Piazzi XIII 174	6.5	13 39 13.109	+3.1220	+0.0093	−0.0032	− 5 2 45.63	−18.197	+0.199	−0.026	8	3.72
1412	i Centauri	4.4	40 34.002	3.4355	+0.0281	−0.0368	−32 35 20.38	18.147	0.220	−0.153	8	3.87
1413	Bradley 1805	5.8	41 8.377	3.1936	+0.0130	−0.0016	−11 58 33.32	18.125	0.206	0.000	10	3.77
1414	Bradley 1808	5.9	42 32.545	2.7886	−0.0037	−0.0014	+26 9 12.07	18.073	0.184	−0.067	8	3.80
1415	τ Boötis	4.5	13 42 58.949	+2.8850	−0.0006	−0.0340	+17 54 17.68	−18.056	+0.190	+0.026	8	3.77
1416	B. D.+39° 2680	5.6	13 43 7	+2.6020	−0.0080	−0.0097	+38 59 32.96	−18.051	+0.173	−0.033	.. 4	... 6.45
1417	η Ursæ Maj	1.9	43 59.626	+2.3802	−0.0102	−0.0121	+49 45 44.01	18.017	+0.160	−0.021	16	4.50
1418	μ Centauri	3.3	44 11	+3.6014	+0.0393	−0.0020	−42 1 32.14	18.010	+0.238	−0.018	.. 28	... 3.53
1419	Piazzi XIII 263	6.2	44 51.589	−1.8827	+0.5093	+0.022	+83 12 15.09	17.984	−0.114	−0.047	8 7	3.85 3.93
1420	Piazzi XIII 263 S. P.	6.2	13 44 51.330	−1.8827	+0.5093	+0.022	+83 12 15.20	−17.984	−0.114	−0.047	8	3.33
1421	89 Virginis	5.1	13 44 58.652	+3.2610	+0.0165	−0.0069	−17 41 10.61	−17.980	+0.218	−0.043	8	3.72
1422	Lac. 5695	6.1	45 0.187	3.3952	+0.0246	.....	−28 38 1.12	17.979	0.226	.....	8	3.86
1423	Weisse$_1$ XIII 732	6.5	45 15.879	2.9802	+0.0031	.....	+ 8 51 18.86	17.968	0.200	.....	9	3.69
1424	Weisse$_2$ XIII 917	6.7	45 48.438	2.8667	−0.0009	.....	+19 4 33.39	17.947	0.194	...	9	4.05
1425*	Groomb. 2055	6.0	13 46 49.753	+1.9459	−0.0058	+0.0112	+61 56 15.99	−17.907	+0.135	−0.096	8	3.77

1383. ζ^2, 4^m.0, 14″, s. f. 1402. Comp., 7^m, 1″.3, s. f. 1405. Double, 6^m.5, 6^m.5, <1″.

[From observations in 1911–1918]

No.	Name	Magnitude	Right Ascension 1910.0	Annual Precession 1910.0	Secular Variation 1910.0	Annual Proper Motion	Declination 1910.0	Annual Precession 1910.0	Secular Variation 1910.0	Annual Proper Motion	Number of Observations	Mean Date
			h m s	s	s	s	° ′ ″	″	″	″		1910+
1426	Weisse$_2$ XIII 988	7.8	13 47 56.759	+2.5616	−0.0076	.....	+40 6 51.73	−17.863	+0.177	.....	8	3.87
1427	i Draconis	4.8	48 48.180	1.7524	−0.0004	+0.0004	+65 10 3.33	17.829	0.124	−0.003	8	3.87
1428	η Boötis	2.8	50 23.885	2.8612	−0.0005	−0.0045	+18 50 52.96	17.765	0.201	−0.367	130 88	3.87 3.98
1429	Weisse$_1$ XIII 825	6.9	51 2.021	3.1724	+0.0117	−0.0032	− 9 7 7.76	17.739	0.223	−0.034	8	3.81
1430	Lal. 25629	6.2	13 51 29.615	+2.9110	+0.0012	.....	+14 29 49.01	−17.720	+0.206	.....	9	3.96
1431	92 Virginis	5.9	13 51 52.653	+3.0562	+0.0066	−0.0023	+ 1 29 25.56	−17.704	+0.216	+0.012	8	3.71
1432*	Weisse$_2$ XIII 1090	6.3	52 10.813	2.6727	−0.0050	−0.0115	+32 28 17.66	17.692	0.191	+0.036	8	3.85
1433	47 Hydræ	5.2	53 27.884	3.3623	+0.0214	−0.0036	−24 31 59.61	17.639	0.240	−0.041	8	3.74
1434	Bradley 1828	5.4	54 25.850	2.8122	−0.0014	−0.0003	+22 8 5.54	17.599	0.204	−0.051	9	3.87
1435	Piazzi XIII 269	6.3	13 55 9.321	+3.1075	+0.0088	−0.0014	− 3 6 42.39	−17.568	+0.226	−0.069	8	3.39
1436	τ Virginis	4.3	13 57 3.856	+3.0499	+0.0065	+0.0013	+ 1 58 46.89	−17.487	+0.225	−0.025	8	3.34
1437	11 Boötis	6.1	57 5.551	2.7277	−0.0031	−0.0060	+27 49 15.46	17.486	0.202	+0.003	10	3.00
1438*	Lal. 25774	6.5	58 9.843	3.2731	+0.0163	−0.0128	−16 56 0.90	17.440	0.243	+0.016	8	3.70
1439	Lal. 25795	6.2	58 51.695	3.3400	+0.0196	.....	−21 59 22.13	17.410	0.249	.....	8	3.78
1440	Lal. 25827	6.3	13 59 24.586	+3.0104	+0.0052	.....	+ 5 19 59.37	−17.386	+0.226	.....	8	3.87
1441	Piazzi XIII 286	6.4	13 59 34.440	+3.2453	+0.0149	−0.0026	−14 32 22.64	−17.379	+0.243	−0.029	8	3.77
1442	Piazzi XIII 296	6.0	13 59 38.743	2.2376	−0.0070	−0.0030	+51 24 15.92	17.376	0.170	−0.014	8	3.80
1443	π Hydræ	3.5	14 1 14.547	3.4051	+0.0228	+0.0031	−26 14 57.35	17.306	0.258	−0.160	8	3.91
1444	θ Centauri	2.3	1 22.710	3.5617	+0.0319	−0.0436	−35 55 40.98	17.300	0.270	−0.528	8	3.85
1445	α Draconis	3.6	14 1 56.992	+1.6312	+0.0048	−0.0081	+64 48 20.85	−17.274	+0.128	+0.015	17 23	5.54 4.64
1446	α Draconis s. P	3.6	14 1 57	+1.6312	+0.0048	−0.0081	+64 48 21.31	−17.274	+0.128	+0.015	.. 26	... 4.18
1447	Weisse$_2$ XIII 1311	7.6	2 17.337	2.8472	+0.0004	.....	+18 20 28.53	17.259	0.218	.....	10	3.97
1448	Weisse$_2$ XIII 1331	7.9	2 39.796	2.5236	−0.0055	.....	+38 50 47.21	17.243	0.195	.....	9 10	3.18 3.39
1449	9 H. Boötis	5.4	4 19.871	2.3997	−0.0061	+0.0004	+44 16 55.47	17.168	0.188	−0.037	6 1	6.36 5.44
1450	Bradley 1838	5.4	14 4 55.491	+2.2501	−0.0061	−0.0052	+49 52 59.63	−17.141	+0.177	+0.046	9 8	3.56 3.35
1451	Cape 80, 7744	6.8	14 4 59.388	+3.4759	+0.0262	.....	−30 11 41.25	−17.138	+0.270	.....	8	3.87
1452	d Boötis	4.8	6 17.592	+2.7385	−0.0017	−0.0017	+25 31 3.00	17.079	+0.216	−0.072	8 7	3.69 3.61
1453	Bradley 1837	5.2	7 36.397	+3.4299	+0.0233	−0.0012	−26 50 16.50	17.018	+0.271	−0.055	8 9	3.87 4.03
1454	κ Virginis	4.3	8 5.517	+3.1956	+0.0124	+0.0005	− 9 51 18.26	16.996	+0.254	+0.130	8	3.78
1455	4 Ursæ Min	5.0	14 9 10.988	−0.2782	+0.1490	−0.0089	+77 58 13.53	−16.945	−0.014	+0.026	8	3.84
1456	4 Ursæ Min. s. P	5.0	14 9 10.865	−0.2782	+0.1490	−0.0089	+77 58 13.26	−16.945	−0.014	+0.026	8	3.83
1457	B. D.+4° 2841	6.6	10 20.691	+3.0253	+0.0062	.....	+ 3 45 21.64	16.890	+0.245	.....	8	3.88
1458	Groomb. 2091	5.4	10 23.428	+1.1099	+0.0276	−0.0056	+69 51 17.55	16.888	+0.094	−0.062	8	3.90
1459	B. D.+22° 2678	6.4	10 30.757	+2.7771	−0.0004	.....	+22 17 35.06	16.883	+0.225	.....	8	3.85
1460	ι Virginis	4.2	14 11 17.570	+3.1432	+0.0103	−0.0012	− 5 34 19.25	−16.846	+0.256	−0.427	9 8	4.01 3.85
1461	α Boötis	0.2	14 11 32.986	+2.8134	+0.0005	−0.0780	+19 38 53.72	−16.833	+0.230	−2.004	115 76	4.24 4.23
1462	λ Boötis	4.3	12 57.645	2.3005	−0.0049	−0.0179	+46 30 5.15	16.766	0.191	+0.151	11 9	4.30 3.87
1463	ι Boötis	4.8	12 58.637	2.1421	−0.0043	−0.0157	+51 46 55.85	16.765	0.178	+0.086	9 10	3.70 3.86
1464	Oeltzen 14435	6.6	13 5.383	1.9388	−0.0018	.....	+57 6 30.96	16.760	0.162	.....	8 9	3.85 3.91
1465	B. D.−6° 3964	6.5	14 13 13.870	+3.1642	+0.0111	+0.0117	− 7 7 15.49	−16.753	+0.260	−0.232	8	3.79
1466	Cape 50, 2538	5.7	14 13 39.416	+3.3159	+0.0173	−0.0040	−18 17 59.09	−16.732	+0.273	−0.041	8	3.92
1467	λ Virginis	4.6	14 14.205	3.2425	+0.0141	−0.0015	−12 57 25.98	16.705	0.268	+0.023	8	3.78
1468	Bradley 1853	5.3	14 54.868	2.8955	+0.0027	+0.0074	+13 25 8.52	16.672	0.242	−0.038	8	3.73
1469	Groomb. 2098	7.2	15 21.657	2.3925	−0.0045	.....	+42 25 14.02	16.650	0.201	.....	8	3.83
1470	Lal. 26239	6.3	14 16 12.427	+2.6257	−0.0024	.....	+30 50 30.83	−16.609	+0.221	.....	8	3.40
1471	2 Libræ	6.3	14 18 34.887	+3.2244	+0.0133	−0.0010	−11 18 12.68	−16.492	+0.274	−0.064	8	3.34
1472	Weisse$_1$ XIV 301	5.7	19 34.593	2.9562	+0.0046	.....	+ 8 39 8.94	16.442	0.254	.....	10	3.02
1473	3 G. Libræ	5.4	19 40.275	3.4195	+0.0214	−0.0055	−24 23 54.28	16.437	0.292	−0.031	9	3.74
1474	Weisse$_1$ XIV 315	6.6	20 24.866	3.2492	+0.0142	−0.0038	−12 56 47.31	16.400	0.279	+0.003	8	3.71
1475	B. D.+39° 2764	6.3	14 21 48	+2.4493	−0.0034	.. ..	+38 47 57.32	−16.329	+0.214	.....	.. 4	... 6.45
1476	θ Boötis	4.1	14 22 7.765	+2.0688	−0.0025	−0.0259	+52 15 56.82	−16.313	+0.182	−0.406	21	6.17
1477	f Boötis	5.4	22 16.091	2.7953	+0.0010	−0.0052	+19 37 51.90	16.306	0.244	+0.015	10 11	3.92 3.96
1478	52 Hydræ	5.0	22 53.901	3.5066	+0.0251	−0.0019	−29 5 15.21	16.274	0.305	−0.033	8	3.39
1479	φ Virginis	5.0	23 33.751	3.0975	+0.0088	−0.0089	− 1 49 29.65	16.240	0.272	−0.010	10	2.97
1480	Lac. 5953	7.0	14 23 53.459	+3.5025	+0.0248	.....	−28 42 42.47	−16.223	+0.307	.....	8	3.42

1479. Comp., 9m, 4″.5, s. f.

[From observations in 1911–1918]

No.	Name	Magnitude	Right Ascension 1910.0	Annual Precession 1910.0	Secular Variation 1910.0	Annual Proper Motion	Declination 1910.0	Annual Precession 1910.0	Secular Variation 1910.0	Annual Proper Motion	Number of Observations	Mean Date
			h m s	s	s	s	° ′ ″	″	″	″		1910+
1481	Weisse$_2$ XIV 478	6.2	14 24 32.788	+2.4873	−0.0028	------	+36 35 57.26	−16.189	+0.221	-----	8	3.86
1482	Weisse$_1$ XIV472*seq*	7.0	24 35.490	+2.6411	−0.0013	------	+28 41 33.53	16.187	+0.234	-----	8	3.80
1483*	204 B. Boötis	6.4	26 4.035	+2.3514	−0.0032	+0.0141	+42 12 ----	16.111	+0.211	−0.210	15 --	6.41 ---
1484	5 Ursæ Min	4.4	27 42.045	−0.1708	+0.1166	+0.0034	+76 5 45.94	16.025	−0.008	+0.017	8	3.72
1485	5 Ursæ Min. s. p	4.4	14 27 42.043	−0.1708	+0.1166	+0.0034	+76 5 45.91	−16.025	−0.008	+0.017	8	3.40
1486	ρ Boötis	3.8	14 27 56.991	+2.5939	−0.0015	−0.0078	+30 45 58.10	−16.012	+0.234	+0.110	98 63	3.59 3.35
1487	Bradley 1870	6.0	28 26.982	2.7360	+0.0005	−0.0094	+22 39 21.13	15.986	+0.247	+0.029	8	3.78
1488	γ Boötis	3.0	28 27.134	2.4265	−0.0027	−0.0095	+38 42 6.49	15.985	+0.220	+0.144	27 24	6.19 6.13
1489	56 B. Draconis	6.2	29 16.066	1.6334	+0.0061	−0.0064	+60 37 18.99	15.943	+0.151	+0.019	9	3.76
1490	η Centauri	2.6	14 29 47	+3.7981	+0.0390	−0.0030	−41 45 46.91	−15.915	+0.343	−0.035	-- 20	--- 2.93
1491	σ Boötis	4.5	14 30 45.722	+2.5982	−0.0011	+0.0149	+30 8 8.89	−15.863	+0.238	+0.120	18 8	5.00 3.79
1492	Åbo 30, 333	5.9	31 30.768	2.1029	−0.0017	−0.0048	+49 45 37.71	15.823	+0.195	+0.049	9	4.00
1493	Groomb. 2132	6.6	31 41.863	1.2459	+0.0188	------	+65 47 17.98	15.813	+0.118	-----	8	3.86
1494	Lal. 26645	6.5	32 2.732	2.7123	+0.0004	------	+23 38 30.00	15.794	+0.250	-----	8	3.90
1495	6 B. Libræ	6.2	14 32 12.091	+3.2464	+0.0136	−0.0594	−11 55 22.26	−15.786	+0.298	+0.364	9	3.91
1496	Carr. 2188	7.1	14 32 33.729	−2.2650	+0.3862	------	+81 12 33.29	−15.766	−0.197	-----	9	4.01
1497	Carr. 2188 s. p	7.1	32 33.714	−2.2650	+0.3862	------	+81 12 33.15	15.766	−0.197	-----	8	3.79
1498	Weisse$_1$ XIV 551	6.6	32 55.274	+3.0340	+0.0071	------	+ 2 40 9.53	15.747	+0.280	-----	8 9	3.42 3.19
1499	Piazzi XIV 156	5.5	35 23.842	+1.9011	+0.0010	+0.0017	+54 24 43.28	15.612	+0.180	−0.023	10	3.39
1500	33 Boötis	5.4	14 35 29.174	+2.2399	−0.0020	−0.0069	+44 47 33.59	−15.607	+0.212	−0.029	21 8	5.32 3.70
1501	α Lupi	2.9	14 35 56	+3.9742	+0.0473	−0.0021	−47 0 9.11	−15.582	+0.371	−0.028	-- 28	--- 4.40
1502	π Boötis	4.9	36 29.711	2.8179	+0.0025	+0.0011	+16 48 13.36	15.551	+0.266	+0.002	8	3.75
1503	Bradley 1879	5.6	37 23.962	2.8917	+0.0040	−0.0117	+12 2 52.41	15.501	+0.274	−0.112	8	3.87
1504	Lal. 26760	7.0	37 41.931	3.3636	+0.0175	------	−18 55 43.23	15.485	+0.318	-----	8	3.78
1505	c^1 Centauri	4.1	14 38 8.873	+3.6635	+0.0301	−0.0062	−34 47 12.58	−15.460	+0.347	−0.193	9 8	4.00 3.85
1506	μ Virginis	4.0	14 38 18.921	+3.1510	+0.0104	+0.0071	− 5 16 3.80	−15.450	+0.299	−0.322	9	3.86
1507*	B. D.−7° 3897	6.6	39 27.122	3.1910	+0.0116	−0.0141	− 7 52 20.99	15.387	+0.305	+0.073	8	3.91
1508	Lal. 26855	5.9	40 56.579	3.4349	+0.0199	+0.0029	−22 46 22.16	15.303	+0.330	+0.016	8	3.78
1509	ϵ Boötis	2.7	41 3.312	2.6238	+0.0001	−0.0036	+27 27 11.59	15.297	+0.254	+0.008	122 107	4.24 4.31
1510	Weisse$_2$ XIV 839	6.5	14 41 27.749	+2.5068	−0.0009	------	+33 10 8.44	−15.274	+0.243	-----	8	3.88
1511	109 Virginis	3.8	14 41 41.779	+3.0381	+0.0074	−0.0076	+ 2 16 17.57	−15.260	+0.294	−0.038	8	3.66
1512	B. D.+15° 2758	6.1	41 51.372	2.8319	+0.0031	------	+15 30 34.07	15.251	+0.274	-----	8	3.87
1513	Bradley 1886	5.4	42 29.344	3.4915	+0.0220	+0.0022	−25 42 38.66	15.215	+0.338	−0.003	8	3.78
1514	Weisse$_1$ XIV 772	6.1	44 16.542	3.0798	+0.0085	------	− 0 28 25.14	15.113	+0.301	-----	9 8	4.05 3.88
1515	295 B. Boötis	6.0	14 45 34.496	+2.3776	−0.0011	−0.0216	+38 10 ----	−15.038	+0.236	+0.105	10 --	7.24 ---
1516	8 Libræ	5.3	14 45 42.303	+3.3198	+0.0155	−0.0071	−15 37 25.42	−15.030	+0.327	−0.078	8	3.74
1517	α Libræ	2.9	45 53.762	3.3208	+0.0155	−0.0074	−15 40 6.18	15.020	+0.327	−0.076	105 76	3.67 3.76
1518	Piazzi XIV 193	5.7	46 5.834	2.5817	+0.0001	+0.0017	+28 59 17.07	15.008	+0.256	−0.009	9	3.12
1519	Groomb. 2154	5.5	46 56.349	2.3864	−0.0009	−0.0181	+37 38 27.45	14.959	+0.238	+0.085	8	3.66
1520	Lac. 6127	6.4	14 47 11.023	+3.5911	+0.0254	−0.0263	−30 13 23.57	−14.945	+0.355	−0.026	9	4.05
1521	Groomb. 2164	5.7	14 49 9.117	+1.5362	+0.0090	−0.0169	+59 39 34.68	−14.829	+0.157	+0.126	9 8	4.06 3.89
1522	Weisse$_1$ XIV 880	6.7	49 12.468	+2.9683	+0.0060	------	+ 6 36 31.78	14.823	+0.298	-----	8	3.74
1523	β Ursæ Min	2.2	50 57.295	−0.2031	+0.0994	−0.0074	+74 31 23.98	14.723	−0.014	+0.005	28 27	6.19 6.30
1524	β Ursæ Min. s. p	2.2	50 57.270	−0.2031	+0.0994	−0.0074	+74 31 24.11	14.723	−0.014	+0.005	16 22	5.58 5.71
1525	ξ^2 Libræ	5.6	14 51 52.921	+3.2504	+0.0130	−0.0001	−11 2 49.12	−14.668	+0.329	−0.002	9 8	3.12 2.85
1526	Piazzi XIV 221	5.8	14 51 58.248	+2.8316	+0.0036	−0.0013	+14 48 34.53	−14.662	+0.288	−0.016	8	3.83
1527	B. D.+41° 2539	7.2	52 36.113	2.2639	−0.0004	------	+41 29 55.26	14. 625	+0.232	-----	9	3.20
1528	β Lupi	2.8	52 37	3.9182	+0.0392	−0.0043	−42 46 18.10	14.623	+0.397	−0.051	-- 26	--- 3.56
1529	Bradley 1908	5.7	52 56.247	3.0694	+0.0083	+0.0041	+ 0 11 40.61	14.605	+0.313	−0.031	8	3.41
1530	Weisse$_2$ XIV 1100	6.2	14 53 0.223	+2.7041	+0.0019	------	+21 55 4.54	−14.601	+0.276	-----	9 8	4.03 3.86
1531	Piazzi XIV 223	6.8	14 53 3.102	+3.3526	+0.0161	------	−17 0 11.92	−14.598	+0.341	-----	10	3.71
1532	Lal. 27282	6.8	54 0.852	2.8364	0.0037	------	+14 23 51.16	14.540	+0.291	-----	8	3.78
1533	2 H. Ursæ Min	4.9	56 8.808	0.9572	0.0277	−0.0124	+66 17 26.67	14.411	+0.103	+0.032	8	3.88
1534	2 H. Ursæ Min. s. p	4.9	56 8.798	0.9572	0.0277	−0.0124	+66 17 26.89	14.411	+0.103	+0.032	8	3.43
1535	δ Libræ	var.	14 56 9.651	+3.2058	+0.0116	−0.0046	− 8 9 44.66	−14.410	+0.331	−0.011	8	3.92

1482. Comp., 7^m.4, 26″, s. pr. 1502. Comp., 5^m.8, 6″, s. f. 1509. Comp., 5^m.1, 2″.8, n. pr. 1535. Var., 4^m.8–6^m.2.

[From observations in 1911–1918]

No.	Name	Magnitude	Right Ascension 1910.0	Annual Precession 1910.0	Secular Variation 1910.0	Annual Proper Motion	Declination 1910.0	Annual Precession 1910.0	Secular Variation 1910.0	Annual Proper Motion	Number of Observations	Mean Date
			h m s	s	s	s	° ′ ″	″	″	″		1910+
1536	Groomb. 2196	5.7	14 56 19.883	− 4.3726	+0.6722	+0.090	+82 52 55.10	−14.400	−0.437	−0.242	8	3.79
1537	Groomb. 2196 s. p	5.7	56 19.973	− 4.3726	+0.6722	+0.090	+82 52 54.57	14.400	−0.437	−0.242	8	3.84
1538	Weisse$_1$ XIV 1014	6.8	57 15.576	+ 3.2036	+0.0115	.....	− 7 59 25.86	14.343	+0.332	.....	8	3.76
1539	β Boötis	3.6	58 33.266	+ 2.2636	0.0000	−0.0040	+40 44 42.42	14.264	+0.238	−0.043	35 29	6.09 6.05
1540	γ Scorpii	3.4	14 58 47.890	+ 3.5094	+0.0209	−0.0056	−24 55 43.79	−14.249	+0.366	−0.055	8	3.40
1541	B. D.+72° 664	6.7	15 0 19.055	+ 0.1397	+0.0690	−0.0844	+72 7 1.62	−14.155	+0.021	+0.085	10	3.77
1542	B. D.+72° 664 s. p	6.7	0 18.951	0.1397	0.0690	−0.0844	+72 7 1.82	14.155	+0.021	+0.085	8 10	3.51 3.81
1543	ψ Boötis	4.7	0 35.210	2.5836	0.0012	−0.0133	+27 17 52.96	14.138	+0.273	−0.020	9	3.75
1544	Rad. 45, 3900	6.1	1 15.335	3.4503	0.0186	+0.0065	−21 40 56.32	14.097	+0.364	−0.051	9	4.08
1545	Weisse$_1$ XIV 1099	7.3	15 1 37.881	+ 3.2845	+0.0136	.....	−12 33 31.25	−14.073	+0.347	.....	9	3.72
1546	Bradley 1925	5.6	15 2 26.894	+ 1.9931	+0.0018	−0.0062	+48 29 54.11	−14.022	+0.214	+0.015	8	3.86
1547	Weisse$_1$ XIV 1141	6.2	3 12.299	2.9744	0.0064	.....	+ 5 50 39.27	13.975	0.317	....	8	3.88
1548	Weisse$_2$ XIV 1310	6.0	3 12.724	2.7465	0.0029	.....	+18 47 20.38	13.975	0.293	....	8	3.81
1549	c Boötis	5.0	3 20.869	2.6210	0.0016	+0.0138	+25 13 8.49	13.966	0.280	−0.183	9	3.82
1550	Bradley 1926	5.7	15 4 30.588	+ 2.5891	+0.0014	0.0000	+26 38 44.37	−13.893	+0.278	−0.029	9 8	3.12 3.33
1551	Lal. 27628	6.9	15 4 40.665	+ 2.4210	+0.0006	.....	+34 3 0.78	−13.882	+0.261	...	8	3.79
1552	Weisse$_1$ XV 10	7.2	4 50.921	+ 3.1578	0.0102	...	− 5 3 1.76	13.872	+0.338	....	8	3.36
1553	Lac. 6253	5.9	4 59.010	+ 3.5431	0.0213	−0.0036	−25 59 24.57	13.863	+0.379	+0.013	9	3.95
1554	Groomb. 2194	6.3	5 28.095	+ 1.9033	0.0029	..	+50 23 56.08	13.832	+0.207	.....	9	3.78
1555	Groomb. 2283	7.2	15 5 58.10	−19.861	+6.792	−0.008	+87 34 47.17	−13.800	−2.094	+0.019	29 34	3.97 3.80
1556	Groomb. 2283 s. p	7.2	15 5 57.60	−19.861	+6.792	−0.008	+87 34 47.08	−13.800	−2.094	+0.019	22 31	4.31 4.05
1557	Groomb. 2197	6.8	6 7.504	+ 1.1306	0.0200	.....	+63 27 37.45	13.791	+0.126	...	8	3.70
1558	ι Librae	4.7	7 5.243	+ 3.4164	0.0170	−0.0026	−19 27 5.91	13.729	+0.369	−0.049	9	3.20
1559	B. D.+39° 2847	8.1	9 49	+ 2.2751	0.0008	.	+39 0 6.39	13.554	+0.250	.	.. 5	... 6.48
1560	3 Serpentis	5.4	15 10 42.787	+ 2.9813	+0.0066	−0.0014	+ 5 16 22.81	−13.497	+0.327	−0.009	8	3.43
1561	Groomb. 2205	6.6	15 10 47.215	+ 2.1384	+0.0013	.	+43 22 53.84	−13.492	+0.236	...	10	4.12
1562	δ Boötis	3.5	11 52.406	2.4118	0.0010	+0.0071	+33 38 59.84	13.421	0.267	−0.127	14 7	4.94 3.85
1563	β Librae	2.7	12 9.640	3.2308	0.0118	−0.0067	− 9 3 5.17	13.403	0.356	−0.030	106 74	4.33 4.50
1564	B. D.+37° 2625	7.1	12 55.233	2.3105	0.0010	.....	+37 23 59.45	13.353	0.257	..	8	3.92
1565	B. D.+69° 789	6.5	15 14 11.301	+ 0.4250	+0.0472	.....	+69 16 36.30	−13.271	+0.052	.....	8	3.87
1566	Piazzi XV 36	5.7	15 14 22.315	+ 2.6897	+0.0028	−0.0022	+20 54 4.57	−13.259	+0.300	−0.033	9	3.82
1567	Weisse$_1$ XV 201	6.7	14 22.782	2.8821	0.0051	..	+10 45 19.60	13.258	0.321	...	8	3.91
1568	Bradley 1937	5.2	14 43.077	3.0356	0.0076	+0.0246	+ 2 6 17.20	13.236	0.338	−0.528	8	3.88
1569	Bradley 1939	6.1	15 59.310	3.3470	0.0145	+0.0018	−15 13 27.70	13.152	0.374	+0.012	8 7	3.88 4.10
1570	Weisse$_1$ XV 226	7.4	15 16 22.203	+ 3.1838	+0.0106	.....	− 6 17 20.40	−13.127	+0.356	....	9	3.74
1571	Bradley 1940	5.5	15 16 26.971	+ 3.0541	+0.0079	−0.0036	+ 1 2 31.06	−13.122	+0.342	−0.113	8	3.85
1572	Lac. 6355	6.8	17 34.216	3.5754	0.0208	..	−26 22 2.46	13.047	0.401	...	9	3.76
1573	Piazzi XV 54	5.8	18 55.764	3.2902	0.0129	−0.0026	−12 2 56.31	12.957	0.371	−0.048	8	3.36
1574	Bradley 1945	6.1	19 5.188	3.0850	0.0085	+0.0045	− 0 42 7.43	12.946	0.349	−0.035	9	3.68
1575	η Coronæ Bor	5.0	15 19 29.191	+ 2.4679	+0.0016	+0.0101	+30 36	−12.920	+0.281	−0.198	15 ..	6.75 ...
1576	γ Ursæ Min	3.1	15 20 51.652	− 0.1174	+0.0735	−0.0026	+72 9 15.64	−12.827	−0.008	+0.012	9 8	3.22 3.44
1577	γ Ursæ Min. s. p	3.1	20 51.579	− 0.1174	0.0735	−0.0026	+72 9 15.34	12.827	−0.008	+0.012	10 9	4.12 3.91
1578	μ Boötis *pr*	4.5	21 5.290	+ 2.2783	0.0015	−0.0126	+37 41 32.71	12.812	+0.261	+0.078	22 8	5.52 3.47
1579	τ^1 Serpentis	5.5	21 36.827	+ 2.7822	0.0040	−0.0014	+15 44 38.21	12.777	+0.318	−0.026	9	3.77
1580	ι Draconis	3.5	15 22 55.457	+ 1.3313	+0.0132	−0.0006	+59 16 51.82	−12.688	+0.156	+0.009	22 25	6.08 5.43
1581	ι Draconis s. p	3.5	15 22 55	+ 1.3313	+0.0132	−0.0006	+59 16 52.36	−12.688	+0.156	+0.009	.. 32	... 4.26
1582	32 Librae	5.9	23 10.659	3.3774	0.0148	+0.0011	−16 24 11.94	12.671	0.387	−0.043	8	3.74
1583	Piazzi XV 83	6.3	23 46.502	2.5794	0.0024	+0.0002	+25 24 51.33	12.631	0.297	−0.039	8	3.72
1584	β Coronæ Bor	3.7	24 6.937	2.4867	0.0019	−0.0133	+29 24 55.89	12.607	0.287	+0.076	21 9	5.23 3.65
1585	B. D.+39° 2875	6.6	15 25 10	+ 2.2270	+0.0018	.....	+39 2 2.77	−12.535	+0.259	.....	.. 4	... 6.46
1586	Lal. 28212	6.1	15 25 23.960	+ 3.4611	+0.0167	+0.0020	−20 25 9.69	−12.520	+0.399	−0.029	8	3.44
1587	Weisse$_1$ XV 435	6.5	26 33.154	2.9088	0.0057	.....	+ 8 53 10.65	12.441	0.338	.....	9	3.26
1588	Groomb. 2240	6.3	26 37.254	1.5473	0.0086	....	+55 30 10.58	12.436	0.182	.....	9 8	3.70 3.48
1589	Weisse$_2$ XV 538	6.4	26 44.253	2.4276	0.0018	.. ..	+31 35 38.02	12.428	0.283	.....	8	3.80
1590	ν^1 Boötis	5.2	15 27 41.728	+ 2.1535	+0.0021	+0.0009	+41 8 22.12	−12.362	+0.252	−0.015	23 8	5.47 3.72

1567. Comp., 7^m.6, 13″, s. f. 1575. Double, 5^m.6, 6^m.1, 1″.1. 1578. Comp., 6^m.7, 108″, s. f.

[From observations in 1911–1918]

No.	Name	Magnitude	Right Ascension 1910.0	Annual Precession 1910.0	Secular Variation 1910.0	Annual Proper Motion	Declination 1910.0	Annual Precession 1910.0	Secular Variation 1910.0	Annual Proper Motion	Number of Observations	Mean Date
			h m s	s	s	s	° ′ ″	″	″	″		1910+
1591	ν^2 Boötis	5.0	15 28 33.586	+2.1487	+0.0021	−0.0020	+41 12 ...	−12.303	+0.253	−0.015	16 ..	6.34 ...
1592	γ Lupi, *mean*	3.0	29 8	3.9872	0.0330	−0.0014	−40 51 54.18	12.263	0.465	−0.036	.. 8	... 2.70
1593	Bradley 1960	4.8	29 15.445	3.2544	0.0116	+0.0202	− 9 45 24.79	12.255	0.381	−0.248	8	3.81
1594	γ Libræ	4.0	30 29.329	3.3470	0.0135	+0.0045	−14 29 24.10	12.169	0.393	−0.001	9	3.79
1595	α Coronæ Bor	2.3	15 30 52.595	+2.5303	+0.0024	+0.0090	+27 1 0.93	−12.142	+0.299	−0.102	125 88	4.48 4.70
1596	3 H. Scorpii	3.8	15 31 33.407	+3.6353	+0.0209	−0.0007	−27 50 15.23	−12.095	+0.428	−0.005	9 10	3.95 3.89
1597	Weisse$_1$ XV 535	6.1	31 36.388	+2.8544	0.0050	.....	+11 33 51.81	12.091	+0.337	.....	8	3.40
1598	τ Libræ	3.8	33 7.461	+3.6781	0.0219	−0.0018	−29 28 56.75	11.985	+0.435	−0.033	9	3.70
1599	Bradley 1975	5.5	33 43.518	+3.4422	0.0155	+0.0066	−19 0 22.51	11.943	+0.408	−0.088	8	3.74
1600	θ Ursæ Min	5.3	15 34 3.850	−1.8347	+0.1881	−0.0137	+77 38 57.64	−11.919	−0.210	+0.006	8	3.95
1601	θ Ursæ Min. S. P	5.3	15 34 3.759	−1.8347	+0.1881	−0.0137	+77 38 57.76	−11.919	−0.210	+0.006	8	3.92
1602	Weisse$_2$ XV 752	7.6	34 29.305	+2.6165	0.0030	.....	+22 58 6.12	11.889	+0.312	.....	8	3.50
1603	φ Boötis	5.4	34 35.599	+2.1485	0.0024	+0.0055	+40 38 45.71	11.882	+0.257	+0.047	9 10	3.85 3.81
1604	Carr. 2352	7.0	35 18.868	−3.7940	0.4002	.....	+81 4 16.98	11.831	−0.442	.....	9 8	3.70 3.76
1605	Carr. 2352 S. P	7.0	15 35 18.894	−3.7940	+0.4002	.....	+81 4 16.96	−11.831	−0.442	.....	8	3.92
1606	B. D.+35° 2711	6.2	15 35 20.111	+2.3180	+0.0021	.....	+34 58 4.69	−11.829	+0.278	.....	8	3.86
1607	Piazzi XV 153	5.8	35 23.203	1.9115	0.0039	+0.0082	+47 5 37.44	11.826	0.230	−0.138	8	3.91
1608	ζ Coronæ Bor. *seq*	5.1	35 59.215	2.2600	0.0022	−0.0009	+36 55 38.85	11.784	0.272	−0.008	20 8	5.62 3.91
1609	κ Libræ	5.0	36 45.464	3.4539	0.0155	−0.0032	−19 23 16.71	11.729	0.413	−0.119	8	3.86
1610	Weisse$_1$ XV 652	7.4	15 36 57.890	+3.1895	+0.0100	.....	− 6 9 21.15	−11.714	+0.382	.....	8	3.43
1611	Bradley 1987	6.4	15 38 21.913	+3.3594	+0.0133	−0.0011	−14 45 18.75	−11.615	+0.404	−0.110	8	3.89
1612	ψ Serpentis	5.8	39 30.042	3.0190	0.0072	−0.0057	+ 2 48 10.69	11.533	0.365	−0.150	8	3.94
1613	α Serpentis	2.8	39 50.025	2.9438	0.0062	+0.0090	+ 6 42 29.47	11.510	0.356	+0.038	93 88	4.72 4.54
1614	Groomb. 2270	5.5	40 23.737	1.6366	0.0071	−0.0064	+52 38 40.55	11.469	0.201	+0.022	8	3.84
1615	Bradley 1993	5.9	15 40 36.729	+2.7257	+0.0039	−0.0018	+17 32 47.89	−11.454	+0.331	−0.014	8	3.92
1616	Lac. 6516	6.4	15 40 43.805	+3.6505	+0.0201	.....	−27 46 47.43	−11.445	+0.442	.....	8	3.41
1617	β Serpentis	3.7	42 1.936	2.7629	0.0043	+0.0049	+15 42 10.29	11.352	0.337	−0.057	8	3.82
1618	λ Serpentis	4.4	42 4.339	2.9249	0.0060	−0.0158	+ 7 38 3.88	11.349	0.356	−0.064	8	3.90
1619	Lal. 28744	6.7	43 6.265	3.5543	0.0173	−0.0030	−23 33 24.38	11.274	0.433	−0.037	9	3.94
1620	Bradley 1999	5.6	15 44 13.798	+3.1412	+0.0089	−0.0025	− 3 32 35.45	−11.193	+0.385	+0.004	8	3.46
1621	κ Serpentis	4.3	15 44 41.214	+2.7028	+0.0038	−0.0032	+18 25 7.52	−11.160	+0.332	−0.101	8	3.81
1622	R Coronæ Bor	var.	44 51.852	2.4711	0.0026	+0.0003	+28 25 55.83	11.147	0.304	−0.018	8	3.47
1623	μ Serpentis	3.6	44 55.247	3.1338	0.0088	−0.0059	− 3 9 20.15	11.143	0.385	−0.028	9 8	3.80 3.75
1624	χ Lupi	4.1	45 14.118	3.8044	0.0236	−0.0007	−33 21 13.49	11.120	0.466	−0.028	8	3.51
1625	12 H. Draconis	5.1	15 45 17.444	+0.9013	+0.0221	+0.0052	+62 52 38.95	−11.116	+0.114	−0.060	8	3.46
1626	ϵ Serpentis	3.8	15 46 19.694	+2.9799	+0.0066	+0.0083	+ 4 44 53.01	−11.040	+0.367	+0.057	8	3.78
1627	ζ Ursæ Min	4.3	47 14.875	−2.2218	0.1993	+0.0080	+78 4 18.22	10.973	−0.267	−0.003	8 7	3.39 3.68
1628	ζ Ursæ Min. S. P	4.3	47 14.905	−2.2218	0.1993	+0.0080	+78 4 17.93	10.973	−0.267	−0.003	9	3.35
1629	λ Libræ	5.1	48 6.360	+3.4783	0.0151	−0.0010	−19 53 55.07	10.910	+0.430	−0.034	8 17	3.46 2.89
1630	χ Herculis	4.6	15 49 33.989	+2.0336	+0.0034	+0.0400	+42 42	−10.803	+0.254	+0.620	16 ..	6.31 ...
1631	Piazzi XV 212	5.8	15 50 36.501	+2.6487	+0.0036	−0.0052	+20 34 27.23	−10.726	+0.331	+0.039	8	3.45
1632	γ Serpentis	3.9	52 17.717	+2.7483	0.0043	+0.0211	+15 57 12.19	10.601	+0.345	−1.297	10 9	3.74 3.79
1633	Groomb. 2315	7.3	52 41.819	−6.4785	0.7027	+0.009	+83 13 12.65	10.571	−0.798	+0.004	8	3.42
1634	Groomb. 2315 S. P	7.3	52 41.563	−6.4785	0.7027	+0.009	+83 13 12.72	10.571	−0.798	+0.004	9 8	3.43 3.51
1635	φ Serpentis	5.7	15 53 5.275	+2.7749	+0.0045	−0.0077	+14 40 18.82	−10.542	+0.349	+0.074	8	3.83
1636	π Scorpii	3.0	15 53 24.249	+3.6238	+0.0177	−0.0011	−25 51 20.66	−10.518	+0.454	−0.036	8 7	3.42 3.13
1637	ϵ Coronæ Bor	4.2	53 51.583	2.4887	0.0029	−0.0064	+27 8 16.22	10.484	0.314	−0.068	8	3.87
1638	Rad. 90, 4132	7.4	54 59.283	3.1900	0.0093	.. ....	− 5 52 17.58	10.400	0.402	.....	8	3.92
1639	δ Scorpii	2.5	55 0.506	3.5427	0.0157	−0.0009	−22 21 58.48	10.399	0.446	−0.039	79 70	4.21 4.20
1640	49 Libræ	5.5	15 55 16.194	+3.4062	+0.0130	−0.0440	−16 16 9.75	−10.379	+0.429	−0.400	8	3.89
1641	66 H^1. Draconis	5.0	15 55 39.069	+1.4378	+0.0097	−0.0186	+55 0 13.71	−10.350	+0.184	+0.108	8	3.90
1642	Bradley 2031	5.9	56 22.955	2.9787	0.0065	−0.0031	+ 4 40 43.42	10.296	0.377	+0.066	8	3.92
1643	Cape 80, 8712	6.2	57 4.754	3.7063	0.0192	.....	−28 53 5.67	10.243	0.469	.....	10	3.88
1644	B. D.+31° 2805	6.7	57 9.520	2.3595	0.0028	.....	+31 49 19.43	10.237	0.300	.....	10	3.89
1645	Piazzi XV 237	5.1	15 57 54.071	+3.6245	+0.0172	−0.0050	−25 36 54.08	−10.181	+0.459	−0.043	8	3.44

1592. Double, $3^m.7$, $3^m.9$, $0''.4$.

1608. Comp., $6^m.0$, $6''.2$, n. pr.

1622. Var., $5^m.8$–$13^m.8$, irregular.

[From observations in 1911–1918]

No.	Name	Magnitude	Right Ascension 1910.0	Annual Precession 1910.0	Secular Variation 1910.0	Annual Proper Motion	Declination 1910.0	Annual Precession 1910.0	Secular Variation 1910.0	Annual Proper Motion	Number of Observations	Mean Date
			h m s	s	s	s	° ′ ″	″	″	″		1910+
1646	Piazzi XV 266	5.8	16 0 0.717	+2.2042	+0.0030	+0.0011	+36 52 45.88	−10.022	+0.283	−0.022	8	3.41
1647	θ Draconis	4.1	0 11.799	1.1601	0.0143	−0.0401	+58 48 20.33	10.008	0.151	+0.338	8	3.81
1648	β Scorpii	2.9	0 12.052	3.4839	0.0140	−0.0008	−19 33 35.32	10.008	0.444	−0.029	68 67	3.57 3.34
1649	Rad. 45, 3498	6.2	1 30.970	1.0878	0.0156	.....	+59 39 26.99	9.908	0.142	.....	8	3.92
1650	Bradley 2042	5.6	16 2 36.341	+3.3308	+0.0111	−0.0036	−12 30 14.67	− 9.825	+0.427	−0.038	8	3.76
1651	Lal. 29345	5.8	16 3 21.003	+3.5786	+0.0156	+0.0032	−23 26 45.46	− 9.768	+0.460	−0.012	8	3.82
1652	κ Herculis	5.3	4 0.694	2.7088	0.0041	−0.0031	+17 17 9.85	9.718	0.349	−0.014	9	3.91
1653*	B. D.+6° 3169	6.0	4 45.228	2.9364	0.0059	+0.0151	+ 6 38 1.36	9.661	0.379	−0.726	8	3.88
1654	Weisse$_2$ XVI 82	7.4	5 10.428	1.8748	0.0046	.....	+45 37 4.44	9.628	0.244	.....	8	3.92
1655	τ Coronæ Bor	4.9	16 5 40.733	+2.1972	+0.0031	−0.0050	+36 43	− 9.590	+0.285	+0.319	5 ..	6.30 ...
1656	φ Herculis	4.3	16 5 55.919	+1.8912	+0.0045	−0.0021	+45 10 13.70	− 9.570	+0.246	+0.023	18 8	4.74 3.42
1657	Groomb. 2320	5.4	6 4.344	0.1582	0.0402	−0.0064	+68 2 50.22	9.559	0.024	+0.058	8	3.88
1658	Groomb. 2320 s. P	5.4	6 4.328	0.1582	0.0402	−0.0064	+68 2 50.25	9.559	0.024	+0.058	8	3.51
1659	Weisse$_2$ XVI 117	6.8	6 15.374	2.0390	0.0037	.....	+41 19 46.00	9.545	0.265	.....	8	3.90
1660	Weisse$_2$ XVI 102	6.7	16 6 21.150	+2.4742	+0.0031	.....	+26 58 35.92	− 9.538	+0.321	.....	8	3.92
1661	Weisse$_1$ XVI 102	6.6	16 8 59.680	+3.0982	+0.0075	.....	− 1 14 47.32	− 9.334	+0.404	.....	8	3.76
1662	δ Ophiuchi	3.0	9 37.609	3.1442	0.0080	−0.0033	− 3 27 48.56	9.285	0.410	−0.153	85 68	4.26 3.96
1663	Bradley 2067	5.6	10 43.648	3.2422	0.0093	+0.0153	− 8 7 56.97	9.200	0.424	−0.516	8	3.94
1664	13 Herculis	7.4	10 46.610	2.8262	0.0049	.....	+11 43 2.94	9.196	0.370	.....	9	3.90
1665	σ Coronæ Bor. *seq*	5.8	16 11 18.366	+2.2680	+0.0031	−0.023†	+34 5 9.95	− 9.155	+0.298	−0.09†	10 7	3.84 3.45
1666	Bradley 2075	6.6	16 12 26.333	+2.5581	+0.0034	−0.0011	+23 20 44.81	− 9.066	+0.337	−0.024	8	3.42
1667	Piazzi XVI 31	4.9	12 42.760	+3.7171	0.0172	−0.0026	−28 23 27.87	9.045	+0.487	−0.109	8	3.88
1668	19 Ursæ Min	5.5	13 22.517	−1.7553	0.1251	+0.0015	+76 6 16.34	8.993	−0.225	+0.007	8	3.88
1669	19 Ursæ Min. s. P	5.5	13 22.389	−1.7553	0.1251	+0.0015	+76 6 16.27	8.993	−0.225	+0.007	10	3.60
1670	ε Ophiuchi	3.3	16 13 33.466	+3.1660	+0.0081	+0.0053	− 4 28 25.69	− 8.979	+0.416	+0.032	8	3.84
1671	Groomb. 2325	7.0	16 13 35.341	+1.4600	+0.0086	.....	+53 27 37.23	− 8.977	+0.194	.....	8	3.82
1672	Lac. 6788	5.4	13 50.955	+3.7821	0.0183	+0.0052	−30 41 20.18	8.956	+0.497	+0.004	9	3.66
1673*	Weisse$_2$ XVI 367	6.9	14 15.484	+2.3243	0.0031	+0.0139	+32 0 59.06	8.924	+0.307	+0.325	8	3.49
1674	Lal. 29696	6.9	14 21.777	+3.4756	0.0125	.....	−18 36 37.32	8.916	+0.458	.....	8	3.73
1675	Bradley 2099	6.5	16 14 47.093	−1.5380	+0.1109	−0.0101	+75 26 2.26	− 8.883	−0.197	+0.025	8	3.48
1676	Bradley 2099 s. P	6.5	16 14 46.992	−1.5380	+0.1109	−0.0101	+75 26 2.45	− 8.883	−0.197	+0.025	9	3.62
1677	σ Scorpii	3.1	15 42.884	+3.6420	0.0153	−0.0009	−25 22 39.19	8.810	+0.481	−0.032	8	3.84
1678	τ Herculis	3.9	17 2.018	+1.8028	0.0051	−0.0012	+46 31 38.29	8.706	+0.240	+0.030	20 8	5.34 3.44
1679	σ Serpentis	4.8	17 30.721	+3.0464	0.0067	−0.0111	+ 1 14 23.61	8.668	+0.404	+0.043	8	3.46
1680	γ Herculis	3.8	16 17 56.899	+2.6486	+0.0038	−0.0034	+19 21 50.12	− 8.634	+0.352	+0.039	8	3.42
1681	ξ Coronæ Bor	4.7	16 18 35.276	+2.3440	+0.0031	−0.0074	+31 6 1.92	− 8.583	+0.312	+0.092	18 4	6.54 6.14
1682	23 Herculis	6.2	19 29.096	+2.3004	0.0032	+0.0010	+32 32	8.512	+0.307	−0.018	6 ..	6.21 ...
1683	Weisse$_1$ XVI 319	7.0	19 58.395	+3.1208	0.0073	.....	− 2 16 50.57	8.474	+0.416	.....	8	3.76
1684	η Ursæ Min	5.0	20 7.078	−1.7732	0.1175	−0.0184	+75 57 47.68	8.462	−0.231	+0.252	8 17	3.77 3.09
1685	η Ursæ Min. s. P	5.0	16 20 7.106	−1.7732	+0.1175	−0.0184	+75 57 47.84	− 8.462	−0.231	+0.252	8	3.83
1686	ω Herculis	4.5	16 21 15.651	+2.7644	+0.0044	+0.0030	+14 14 23.21	− 8.372	+0.370	−0.065	8	3.75
1687	98 B. Draconis	5.7	22 27.079	1.3075	0.0102	+0.0019	+55 24 34.14	8.277	+0.177	+0.016	8	3.45
1688	η Draconis	2.9	22 46.094	0.8089	0.0185	−0.0025	+61 43 3.99	8.252	+0.111	+0.059	8 13	3.40 2.92
1689	η Draconis s. P	2.9	22 46	0.8089	0.0185	−0.0025	+61 43 4.49	8.252	+0.111	+0.059	.. 17	... 3.99
1690	α Scorpii	1.2	16 23 53.182	+3.6740	+0.0148	−0.0005	−26 13 58.85	− 8.162	+0.493	−0.033	89 42	4.28 5.41
1691	Lac. 6856	6.8	16 24 40.692	+3.7148	+0.0154	.....	−27 43 8.57	− 8.099	+0.499	.....	8	3.50
1692	Pulk. 55, 2358	5.8	24 41.528	3.3854	0.0102	+0.0016	−14 21 14.30	8.098	0.455	+0.008	9 8	3.93 3.87
1693	Bradley 2092	4.9	24 44.166	3.6405	0.0141	−0.0004	−24 55 4.17	8.094	0.489	−0.028	8	3.47
1694	Weisse$_2$ XVI 689	7.1	24 56.878	2.3869	0.0032	.....	+29 16 25.01	8.077	0.322	.....	9	3.83
1695	Weisse$_1$ XVI 429	6.9	16 25 26.122	+2.9402	+0.0055	.....	+ 6 10 1.66	− 8.038	+0.396	.....	9 8	4.14 3.97
1696	*N* Scorpii	4.3	16 25 29.883	+3.9143	+0.0190	−0.0007	−34 30 33.19	− 8.033	+0.526	−0.024	10	3.81
1697	*g* Herculis	5.0	25 41.077	1.9666	0.0041	+0.0020	+42 4	8.018	0.266	−0.018	3 ..	7.87 ...
1698	β Herculis	2.8	26 20.935	2.5849	0.0036	−0.0075	+21 41 6.33	7.965	0.349	−0.024	72 58	3.64 3.26
1699	λ Ophiuchi	3.8	26 22.320	3.0258	0.0062	−0.0032	+ 2 10 48.82	7.963	0.408	−0.084	10	3.64
1700	Weisse$_2$ XVI 781	6.5	16 27 44.823	+2.1981	+0.0033	.....	+35 25 6.10	− 7.853	+0.298	.....	8	3.43

1648. Comp., 5m.1, 13″.3, n. f.
1665. Comp., 6m.7, 4″.6, s. pr. The proper motion is variable due to orbital motion.
1688. Comp., 8m, 5″.4, s. f.
1690. Comp., 7m, 3″.2, pr.
1699. Comp., 6m, 1″.2, n. f.

[From observations in 1911–1918]

No.	Name	Magnitude	Right Ascension 1910.0	Annual Precession 1910.0	Secular Variation 1910.0	Annual Proper Motion	Declination 1910.0	Annual Precession 1910.0	Secular Variation 1910.0	Annual Proper Motion	Number of Observations	Mean Date
			h m s	s	s	s	° ′ ″	″	″	″		1910+
1701	*A* Draconis	5.0	16 28 9.191	−0.1269	+0.0407	−0.0045	+68 57 46.31	−7.820	−0.014	+0.034	8	3.42
1702	*A* Draconis S. P	5.0	28 9.107	−0.1269	0.0407	−0.0045	+68 57 46.76	7.820	−0.014	+0.034	9	3.71
1703	τ Scorpii	2.9	30 16.611	+3.7302	0.0148	−0.0008	−28 1 47.95	7.649	+0.506	−0.037	8	3.45
1704	Piazzi XVI 140	5.8	31 9.147	+0.8394	0.0166	+0.0019	+61 0 42.12	7.578	+0.116	−0.016	9 8	3.90 3.84
1705	σ Herculis	4.2	16 31 11.994	+1.9338	+0.0042	−0.0010	+42 37 20.30	−7.574	+0.264	+0.035	17 9	5.10 3.95
1706	B. D.+17° 3053	6.3	16 31 24.142	+2.6884	+0.0039	.....	+17 14 31.95	−7.558	+0.366	.....	9	3.91
1707	Bradley 2108	5.9	31 37.777	3.1186	0.0068	+0.0296	− 2 8 0.64	7.539	0.424	−0.318	9 8	3.71 3.99
1708	ζ Ophiuchi	2.7	32 12.052	3.2997	0.0086	+0.0008	−10 23 7.82	7.493	0.449	+0.017	34 41	6.24 5.43
1709*	Weisse$_2$ XVI 943	6.9	33 4.073	2.5442	0.0035	+0.0081	+23 3 9.94	7.422	0.348	−0.137	8	3.82
1710	Weisse$_1$ XVI 570	6.0	16 33 12.219	+3.2109	+0.0076	.....	− 6 21 27.10	−7.411	+0.438	.....	8	3.94
1711	Groomb. 2362	6.0	16 33 33.561	+1.7497	+0.0052	−0.0015	+46 47 42.47	−7.383	+0.240	+0.012	8	3.46
1712	Weisse$_1$ XVI 598	6.2	33 39.049	2.7657	0.0043	.....	+13 52 6.96	7.375	0.378	.....	8 7	3.47 3.76
1713	Lal. 30353	7.2	34 40.581	1.8811	0.0044	.....	+43 44 37.05	7.292	0.259	.....	9	3.97
1714	Bradley 2117	5.7	36 10.479	2.9766	0.0055	−0.0004	+ 4 23 40.67	7.169	0.408	−0.015	8	3.46
1715	Groomb. 2369	5.4	16 36 11.187	+1.2088	+0.0104	−0.0017	+56 11 28.42	−7.168	+0.168	+0.082	8	3.50
1716	24 Scorpii	5.0	16 36 21.901	+3.4678	+0.0103	−0.0017	−17 34 7.39	−7.154	+0.475	−0.007	8	3.43
1717*	Schwerd 986	7.0	37 5.149	−3.9981	0.2245	+0.033	+79 58 30.71	7.095	−0.542	−0.09	8	3.48
1718*	Schwerd 986 S. P	7.0	37 5.090	−3.9981	0.2245	+0.033	+79 58 30.52	7.095	−0.542	−0.09	8 9	4.00 4.11
1719	ζ Herculis	3.0	37 53.274	+2.2976	0.0032	−0.0365	+31 45 56.46	7.029	+0.317	+0.385	20 8	5.70 3.82
1720	Piazzi XVI 159	6.0	16 39 22.270	+3.7492	+0.0138	−0.0031	−28 20 34.37	−6.908	+0.516	+0.009	9	3.65
1721	η Herculis	3.6	16 39 48.549	+2.0525	+0.0037	+0.0029	+39 5 33.92	−6.872	+0.284	−0.095	27 12	5.83 4.69
1722	Piazzi XVI 177	5.9	40 32.325	2.2182	0.0033	−0.0060	+34 12 15.02	6.812	0.307	+0.050	8	3.78
1723	Bradley 2131	5.4	41 30.521	2.8789	0.0047	−0.0001	+ 8 44 45.54	6.732	0.398	+0.016	8	3.85
1724	Bradley 2135	6.0	42 37.390	3.0235	0.0056	−0.0021	+ 2 13 33.95	6.640	0.419	−0.019	8	3.43
1725	Bradley 2137	5.3	16 43 20.462	+2.9530	+0.0051	−0.0016	+ 5 24 26.55	−6.581	+0.409	−0.045	8	3.92
1726	Groomb. 2377	4.9	16 43 35.220	+1.1322	+0.0106	+0.0033	+56 56 33.13	−6.560	+0.159	+0.056	8 17	3.46 2.94
1727	Lal. 30568	7.3	44 5.857	3.1688	0.0066	.....	− 4 21 20.60	6.518	0.440	.....	8	3.45
1728	Oeltzen 12851	7.6	44 12.777	3.5754	0.0108	+0.0010	−21 41 41.37	6.509	0.496	−0.031	9	3.87
1729	ϵ Scorpii	2.4	44 19.681	3.9294	0.0157	−0.0496	−34 7 50.57	6.499	0.545	−0.259	8 9	3.50 3.72
1730	20 Ophiuchi	4.7	16 44 51.190	+3.3098	+0.0078	+0.0058	−10 37 28.85	−6.456	+0.460	−0.102	8	3.79
1731	μ^1 Scorpii	3.1	16 45 46	+4.0586	+0.0175	−0.0006	−37 53 37.40	−6.380	+0.564	−0.030	-- 49	--- 4.75
1732	Bradley 2145	5.9	47 8.112	2.3408	0.0032	−0.0007	+29 57 34.19	6.266	0.327	−0.007	8	3.49
1733	Oeltzen 16569	7.1	47 18.693	1.3831	0.0077	.....	+53 4 15.92	6.252	0.194	.....	8	3.76
1734	49 Herculis	6.4	47 58.905	2.7290	0.0039	+0.0006	+15 7 28.81	6.196	0.381	−0.007	8	3.46
1735	B. D.+18° 3261	6.9	16 48 41.876	+2.6539	+0.0036	.....	+18 12 42.70	−6.137	+0.371	.....	8	3.87
1736	Weisse$_2$ XVI 1461	7.7	16 48 56.758	+2.1601	+0.0034	.....	+35 38 19.52	−6.116	+0.302	.....	9	3.71
1737	53 Herculis	5.4	49 33.126	2.2812	0.0032	−0.0075	+31 51	6.065	0.320	−0.023	6 --	6.70 ---
1738	Bradley 2146	5.4	49 46.943	3.2066	0.0066	−0.0023	− 6 0 26.65	6.046	0.448	−0.029	8	3.42
1739	κ Ophiuchi	3.4	53 24.322	2.8579	0.0043	−0.0199	+ 9 30 51.26	5.743	0.402	−0.014	93 37	3.92 3.62
1740	Weisse$_1$ XVI 964	6.5	16 53 24.525	+2.7528	+0.0039	.....	+14 1 18.03	−5.743	+0.387	.....	8 9	3.44 3.21
1741	Weisse$_2$ XVI 1686	6.4	16 53 58.131	+2.4881	+0.0033	.....	+24 31 12.20	−5.696	+0.350	.....	8	3.80
1742	ϵ Ursæ Min	4.4	55 9.299	−6.2794	0.3184	+0.007	+82 11 12.23	5.596	−0.877	−0.001	27 26	5.44 5.42
1743	ϵ Ursæ Min. S. P	4.4	55 9.279	−6.2794	0.3184	+0.007	+82 11 12.26	5.596	−0.877	−0.001	33 37	5.30 5.20
1744	Bradley 2169	4.8	55 31.923	+0.2847	0.0212	+0.0394	+65 16 19.96	5.565	+0.042	+0.050	9	3.92
1745	Groomb. 2406	6.8	16 55 42.574	−1.9055	+0.0792	.....	+75 32 4.61	−5.550	−0.265	.....	8	3.50
1746	Groomb. 2406 S. P	6.8	16 55 42.540	−1.9055	+0.0792	.....	+75 32 5.01	−5.550	−0.265	.....	9 10	3.80 3.92
1747	30 Ophiuchi	5.0	56 18.726	+3.1644	0.0059	−0.0036	− 4 5 18.09	5.499	+0.446	−0.088	8	3.46
1748	Bradley 2158	6.4	56 35.191	+3.5090	0.0086	−0.0031	−18 45 14.05	5.476	+0.494	−0.027	9	3.94
1749	ϵ Herculis	3.9	56 50.650	+2.2980	0.0032	−0.0036	+31 3 30.17	5.454	+0.325	+0.021	13 17	5.14 3.16
1750	B. D.+39° 3071	7.2	16 57 29	+2.0288	+0.0036	.....	+39 2 27.67	−5.400	+0.287	.....	-- 5	--- 6.57
1751	*d* Herculis	5.3	16 58 16.916	+2.2134	+0.0032	0.0000	+33 41 52.73	−5.333	+0.313	−0.012	16 8	5.17 3.43
1752	Piazzi XVI 292	6.1	17 0 46.217	2.6093	0.0034	.....	+19 43 22.27	5.123	0.370	.....	9	3.91
1753	Bradley 2162	6.3	0 49.245	3.5799	0.0088	−0.0021	−21 26 26.12	5.119	0.507	−0.085	8	3.46
1754	60 Herculis	4.9	1 12.208	2.7773	0.0038	+0.0036	+12 51 49.50	5.087	0.394	−0.017	8	3.92
1755	Piazzi XVI 284	6.2	17 1 18.469	+3.7140	+0.0101	−0.0008	−26 23 30.39	−5.078	+0.526	−0.046	8	4.00

1719. Binary, 3ᵐ.0, 6ᵐ.0, 1″.

[From observations in 1911–1918]

No.	Name	Magnitude	Right Ascension 1910.0	Annual Precession 1910.0	Secular Variation 1910.0	Annual Proper Motion	Declination 1910.0	Annual Precession 1910.0	Secular Variation 1910.0	Annual Proper Motion	Number of Observations	Mean Date
			h m s	s	s	s	° ′ ″	″	″	″		1910+
1756	Piazzi XVI 307	6.4	17 2 20.368	+1.8255	+0.0042	−0.0008	+43 56 2.74	−4.990	+0.260	−0.014	8	3.46
1757	Piazzi XVI 310	6.3	2 26.405	1.5872	0.0053	+0.0036	+48 55 39.37	4.982	0.226	−0.082	8	3.46
1758	Piazzi XVI 303	6.0	3 34.953	3.0943	0.0050	−0.0008	− 0 57 41.31	4.885	0.440	−0.030	9 8	3.24 3.47
1759	Weisse$_2$ XVII 46	6.6	4 35.043	2.2829	0.0031	------	+31 19 22.30	4.800	0.325	-----	8	3.88
1760	Weisse$_2$ XVII 48	7.0	17 4 47.651	+2.3722	+0.0031	------	+28 21 9.35	−4.782	+0.338	-----	8	3.50
1761	η Ophiuchi	2.6	17 5 12.901	+3.4354	+0.0071	+0.0025	−15 36 50.51	−4.746	+0.489	+0.086	35 33	6.67 6.68
1762	η Scorpii	3.4	5 42	4.2891	0.0161	+0.0022	−43 7 17.46	4.705	0.610	−0.294	-- 19	--- 3.61
1763	Weisse$_1$ XVII 40	7.3	6 51.538	3.4091	0.0068	------	−14 30 35.34	4.606	0.486	-----	8	3.50
1764	B. D.+38° 2892	7.8	7 8	2.0247	0.0035	------	+38 50 51.09	4.583	0.289	-----	-- 4	--- 6.53
1765	Weisse$_1$ XVII 62	6.4	17 7 24.751	+2.8895	+0.0040	------	+ 8 0 13.28	−4.559	+0.412	-----	8	3.82
1766	ζ Draconis	3.2	17 8 31.339	+0.1702	+0.0191	−0.0021	+65 49 31.53	−4.465	+0.026	+0.020	8 9	3.48 3.34
1767	ζ Draconis s. p	3.2	8 31	0.1702	0.0191	−0.0021	+65 49 31.86	4.465	0.026	+0.020	-- 28	--- 3.70
1768	Weisse$_2$ XVII 189	6.9	9 48.814	2.5577	0.0031	------	+21 32 9.43	4.355	0.366	-----	8	3.44
1769	B. D.+39° 3091	7.2	10 25	2.0122	0.0034	------	+39 5 22.45	4.302	0.288	-----	-- 4	--- 6.56
1770	α Herculis	var.	17 10 32.544	+2.7351	+0.0034	−0.0008	+14 29 32.23	−4.292	+0.391	+0.027	64 50	3.98 3.79
1771	Weisse$_1$ XVII 113	7.1	17 10 44.075	+3.2959	+0.0057	------	− 9 42 24.71	−4.276	+0.471	-----	8	3.93
1772	139 G. Scorpii	5.6	11 12.209	3.9067	0.0104	−0.0077	−32 33 42.79	4.236	0.558	−0.055	8	3.51
1773	δ Herculis	3.2	11 19.981	2.4649	0.0030	−0.0018	+24 56 39.64	4.225	0.353	−0.163	32 31	6.70 6.71
1774	Piazzi XVII 61	5.5	11 45.868	0.5101	0.0138	+0.0015	+62 58 37.23	4.188	0.074	+0.046	8	3.92
1775	π Herculis	3.4	17 11 54.638	+2.0908	+0.0032	−0.0021	+36 54 36.22	−4.175	+0.300	−0.002	14 9	4.67 3.73
1776	Weisse$_1$ XVII 143	var.	17 11 57.632	+3.0426	+0.0044	------	+ 1 18 36.60	−4.171	+0.436	-----	8	3.85
1777	Weisse$_2$ XVII 329	7.4	13 54.925	1.9907	0.0034	------	+39 33 42.21	4.004	0.286	-----	8	3.81
1778	u Herculis	var.	13 59.934	2.2157	0.0030	−0.0016	+33 11 ----	3.996	0.318	−0.013	1 --	6.62 ---
1779	Bradley 2191	5.3	14 23.005	2.8188	0.0035	−0.0002	+10 57 40.78	3.964	0.404	−0.099	8	3.41
1780	e Herculis	4.8	17 14 33.902	+2.0713	+0.0032	−0.0034	+37 23 ----	−3.948	+0.298	+0.053	13 --	6.47 ---
1781	Piazzi XVII 43,m	6.0	17 14 38.918	+3.4898	+0.0066	−0.0003	−17 39 46.93	−3.941	+0.500	−0.021	5	3.05
1782	Piazzi XVII 43,*seq*	6.4	14 38.911	3.4898	0.0066	------	−17 39 47.02	3.941	0.500	-----	3	4.12 ,
1783	B. D.+38° 2910	6.0	15 21	2.0145	0.0033	------	+38 54 11.91	3.879	0.290	-----	-- 4	--- 6.55
1784	θ Ophiuchi	3.4	16 28.833	3.6820	0.0077	−0.0001	−24 54 37.63	3.784	0.529	−0.031	8	3.49
1785	w Herculis	5.4	17 17 17.465	+2.2332	+0.0030	+0.0100	+32 34 54.71	−3.714	+0.321	−1.053	30 7	5.93 3.73
1786	Groomb. 2437	6.8	17 17 36.700	−0.9432	+0.0330	−0.0030	+71 53 10.24	−3.686	−0.134	−0.011	8	3.52
1787	Groomb. 2437 s. p	6.8	17 36.643	−0.9432	0.0330	−0.0030	+71 53 10.63	3.686	−0.134	−0.011	9	4.23
1788	Piazzi XVII 76	6.0	19 18.963	+3.5869	0.0066	−0.0019	−21 21 29.95	3.540	+0.516	−0.036	8	3.79
1789	b Ophiuchi	4.3	20 52.315	+3.6614	0.0069	−0.0005	−24 5 36.24	3.406	+0.527	−0.132	8	3.86
1790*	Weisse$_1$ XVII 319	6.3	17 21 17.494	+3.1087	+0.0041	+0.004	− 1 34 26.03	−3.370	+0.448	+0.04	8	3.96
1791	d Ophiuchi	4.4	17 21 36.334	+3.8268	+0.0079	+0.0014	−29 47 10.95	−3.342	+0.552	−0.156	8	3.42
1792	Weisse$_2$ XVII 537	6.7	21 39.273	2.6831	0.0031	------	+16 27 43.97	3.338	0.387	-----	8	3.46
1793	Piazzi XVII 90	5.9	21 53.129	3.8227	0.0078	------	−29 38 49.72	3.318	0.551	-----	8	3.99
1794	Lal. 31741	6.0	21 58.257	2.8949	0.0035	------	+ 7 40 25.70	3.311	0.418	-----	8	3.48
1795	σ Ophiuchi	4.4	17 22 2.849	+2.9753	+0.0037	+0.0002	+ 4 13 4.57	−3.304	+0.429	+0.003	8	3.45
1796	Lal. 31839	7.9	17 22 13.387	+1.4729	+0.0049	------	+50 30 22.92	−3.289	+0.213	-----	8	3.94
1797	Weisse$_2$ XVII 589	6.4	22 24.429	2.4020	0.0028	------	+26 57 21.78	3.273	0.347	-----	8	3.49
1798	x Herculis	5.8	24 21.020	1.5889	0.0043	0.0000	+48 20 6.69	3.106	0.230	−0.015	9	3.76
1799	B. D.+58° 1731	6.5	24 43.716	0.8982	0.0079	------	+58 43 36.79	3.073	0.131	----	10	4.09
1800	51 Ophiuchi	4.9	17 25 55.387	+3.6580	+0.0062	+0.0001	−23 53 37.84	−2.969	+0.529	−0.038	10 9	3.82 3.88
1801	Groomb. 2456	5.9	17 26 25.465	−4.5951	+0.1079	------	+80 13 0.75	−2.926	−0.662	-----	7	3.86
1802	Groomb. 2456 s. p	5.9	26 25.270	−4.5951	0.1079	------	+80 13 0.91	2.926	−0.662	-----	9	3.56
1803	λ Herculis	4.5	27 5.975	+2.4223	0.0028	+0.0011	+26 10 40.32	2.868	+0.351	+0.014	8 16	3.46 2.97
1804	λ Scorpii	1.7	27 29	+4.0709	0.0085	−0.0003	−37 2 20.50	2.834	+0.589	−0.036	-- 26	--- 5.40
1805	β Draconis	3.0	17 28 23.842	+1.3556	+0.0050	−0.0015	+52 22 3.87	−2.755	+0.197	+0.007	8	3.49
1806	Pulk. 55, 2481	5.7	17 28 41.451	+ 3.2042	+0.0040	−0.0029	− 5 40 46.42	−2.730	+0.464	−0.099	9 8	3.67 3.45
1807	Greenwich 40, 1501	5.6	29 45.964	3.3344	0.0043	−0.0026	−11 10 53.99	2.637	0.483	0.000	10	3.90
1808	ν^1 Draconis	5.0	30 24.171	1.1625	0.0057	+0.0176	+55 14 43.97	2.581	0.169	+0.049	8	3.92
1809	ν^2 Draconis	5.0	30 29.565	1.1632	0.0057	+0.0184	+55 14 2.21	2.574	0.169	+0.051	9	3.73
1810	α Ophiuchi	2.1	17 30 45.358	+ 2.7756	+0.0029	+0.0080	+12 37 28.45	−2.551	+0.402	−0.235	94 72	4.68 4.80

1761. Binary, $3^m.2$, $3^m.7$, $0''.5$.
1770. Var., $3^m.1$–$3^m.9$, comp., 6^m, $4''.6$, s. f.
1773. Comp., 8^m, $11'$, s. pr
1776. Var., $6^m.0$–$6^m.7$.
1778. Var., $4^m.6$–$5^m.4$.
1781. Double, $6^m.4$, $7^m.5$, $2''$.

[From observations in 1911–1918]

No.	Name	Magnitude	Right Ascension 1910.0	Annual Precession 1910.0	Secular Variation 1910.0	Annual Proper Motion	Declination 1910.0	Annual Precession 1910.0	Secular Variation 1910.0	Annual Proper Motion	Number of Observations	Mean Date
			h m s	s	s	s	° ′ ″	″	″	″		1910+
1811	θ Scorpii	2.0	17 30 51	+4.3061	+0.0093	+0.0004	−42 56 28.71	−2.543	+0.624	−0.011	2	4.43
1812	Weisse 1 XVII 554	7.0	31 39.669	+2.7881	0.0029		+12 6 13.86	2.472	+0.404		8	3.92
1813	Weisse 2 XVII 928	7.2	31 48.255	+1.9209	0.0031		+40 58 1.07	2.460	+0.279		8	4.01
1814	f Draconis	5.2	32 19.275	−0.2431	0.0152	−0.0025	+68 11 33.26	2.415	−0.034	+0.137	8	3.52
1815	f Draconis s. P	5.2	17 32 19.255	−0.2431	+0.0152	−0.0025	+68 11 33.07	−2.415	−0.034	+0.137	9	4.10
1816	ξ Serpentis	3.6	17 32 25.889	+3.4365	+0.0045	−0.0030	−15 20 33.81	−2.405	+0.498	−0.071	8	3.93
1817	Piazzi XVII 156	5.9	32 26.261	3.4409	0.0045	−0.0012	−15 30 59.96	2.405	0.499	−0.015	9 8	4.06 4.00
1818	B. D.+30° 3033	5.8	33 11.143	2.2801	0.0027		+30 50 23.97	2.340	0.331		10 9	3.83 3.66
1819	Bradley 2223	5.7	33 48.554	2.4713	0.0026	−0.0017	+24 21 46.22	2.286	0.359	−0.003	9	3.24
1820	Bradley 2227	5.5	17 34 16.376	+1.5642	+0.0039	+0.0023	+48 38 15.59	−2.246	+0.228	+0.053	8	3.53
1821*	B. D.+3° 3465	6.6	17 34 48.745	+2.9888	+0.0031	−0.0126	+ 3 36 27.61	−2.199	+0.434	−0.094	8	3.47
1822	Weisse 2 XVII 1061	6.8	35 11.457	+2.0787	0.0028		+36 47 52.39	2.166	+0.302		8	3.87
1823	o Serpentis	4.4	36 21.291	+3.3752	0.0039	−0.0048	−12 49 40.50	2.065	+0.490	−0.056	8	3.53
1824	ι Herculis	3.8	36 55.355	+1.6930	0.0034	−0.0008	+46 3 13.60	2.015	+0.246	−0.002	22 8	5.73 3.85
1825	ω Draconis	4.9	17 37 28.515	−0.3563	+0.0139	+0.0016	+68 47 59.58	−1.967	−0.051	+0.327	8	3.44
1826	ω Draconis s. P	4.9	17 37 28.459	−0.3563	+0.0139	+0.0016	+68 47 59.79	−1.967	−0.051	+0.327	8	3.46
1827	β Ophiuchi	2.9	39 1.500	+2.9654	0.0029	−0.0028	+ 4 36 15.99	1.832	+0.431	+0.152	115 68	4.88 5.38
1828	ι1 Scorpii	3.1	41 17	+4.1938	0.0060	+0.0003	−40 5 35.18	1.635	+0.610	+0.002	17	2.15
1829	X Sagittarii	var.	41 53.636	+3.7748	0.0044	−0.0004	−27 47 50.47	1.582	+0.549	−0.022	8	3.44
1830	Lal. 32424	6.2	17 42 19.285	+3.6229	+0.0039		−22 26 42.30	−1.544	+0.527		8	3.47
1831	Weisse 1 XVII 780	6.1	17 42 28.690	+3.4219	+0.0034		−14 41 33.76	−1.531	+0.498		8 7	3.39 3.68
1832	Piazzi XVII 223	6.2	42 50.092	3.7499	0.0042	−0.0011	−26 56 36.92	1.500	0.546	−0.020	9	3.93
1833	B. D.+38° 2997	6.5	42 53	1.9965	0.0027		+38 54 57.98	1.494	0.291		5	6.56
1834	μ Herculis	3.5	42 55.982	2.3707	0.0025	−0.0243	+27 46 19.11	1.491	0.345	−0.750	73 72	4.00 3.78
1835	Pulk. 55, 2509	5.6	17 43 9.607	+2.6464	+0.0025	−0.0008	+17 43 46.30	−1.472	+0.385	−0.027	8	3.85
1836	γ Ophiuchi	3.7	17 43 22.711	+3.0087	+0.0027	−0.0018	+ 2 44 25.36	−1.452	+0.438	−0.079	8	3.95
1837	ψ Draconis	4.9	43 32.160	−1.0775	0.0159	+0.0034	+72 11 34.55	1.439	−0.156	−0.267	8	3.96
1838	ψ Draconis s. P	4.9	43 32.133	−1.0775	0.0159	+0.0034	+72 11 34.83	1.439	−0.156	−0.267	8	4.03
1839	87 Herculis	5.3	45 10.100	+2.4321	0.0024	−0.0008	+25 39 7.85	1.296	+0.354	−0.045	8	3.98
1840	B. D.+9° 3485	6.8	17 45 53.595	+2.8403	+0.0025		+ 9 52 31.31	−1.233	+0.414		8	3.51
1841	B. D.−1° 3412	6.4	17 47 20.204	+3.1008	+0.0026		− 1 12 51.59	−1.107	+0.452		8	3.46
1842	168 H1. Herculis	6.1	49 8.917	+1.9524	0.0026	−0.0011	+40 0	0.949	+0.285	+0.049	16	6.75
1843	Schwerd 1059	7.1	49 17.602	−4.7482	0.0392		+80 18 48.58	0.936	−0.691		10	3.85
1844	Schwerd 1059 s. P	7.1	49 17.441	−4.7482	0.0392		+80 18 48.25	0.936	−0.691		8	3.96
1845	B. D.+38° 3025	7.2	17 49 42	+1.9976	+0.0026		+38 50 23.08	−0.900	+0.291		6	6.58
1846	Weisse 1 XVII 951	6.9	17 50 4.986	+3.2534	+0.0025		− 7 42 59.01	−0.867	+0.474		8	3.50
1847	89 Herculis	5.5	51 47.249	2.4193	0.0023	+0.0001	+26 3 49.57	0.718	+0.353	+0.002	8	3.50
1848	ξ Draconis	3.9	51 58.307	1.0248	0.0037	+0.0119	+56 53 11.78	0.702	+0.149	+0.075	9 10	3.44 3.27
1849	ξ Draconis s. P	3.9	51 58	1.0248	0.0037	+0.0119	+56 53 13.68	0.702	+0.149	+0.075	8	3.62
1850	Pulk. 55, 2527	5.7	17 52 3.857	+2.5199	+0.0023	0.0000	+22 28 38.38	−0.694	+0.367	−0.002	8	3.85
1851	θ Herculis	4.0	17 53 9.901	+2.0563	+0.0025	+0.0003	+37 15 42.90	−0.598	+0.300	+0.004	15 8	5.35 3.95
1852	35 Draconis	5.0	53 28.560	−2.7024	0.0148	+0.0138	+76 58 32.17	0.570	−0.394	+0.239	8	3.91
1853	35 Draconis s. P	5.0	53 28.517	−2.7024	0.0148	+0.0138	+76 58 32.52	0.570	−0.394	+0.239	8	3.97
1854	Oeltzen 17675	6.1	53 44.668	+1.0935	0.0034		+55 58 48.83	0.547	+0.159		9 10	3.28 3.11
1855	ν Ophiuchi	3.5	17 54 4.249	+3.3024	+0.0022	−0.0008	− 9 45 48.19	−0.518	+0.481	−0.118	7 8	3.73 3.45
1856	Lal. 32965	6.8	17 54 6.819	+2.1913	+0.0024		+33 24 37.37	−0.515	+0.319		8	4.00
1857	Weisse 1 XVII 1071	7.3	54 14.902	2.7265	0.0022		+14 31 8.35	0.503	0.398		10	3.20
1858	ξ Herculis	3.8	54 15.987	2.3241	0.0023	+0.0066	+29 15 24.95	0.501	0.339	−0.027	8	3.97
1859	γ Draconis	2.4	54 30.881	1.3930	0.0030	−0.0009	+51 29 56.77	0.479	0.203	−0.026	27 35	6.35 5.47
1860	Rad. 45, 3808 *pr*	7.2	17 55 36.175	+0.4930	+0.0041		+62 36 58.87	−0.384	+0.072		9	3.36
1861	Bradley 2257	4.8	17 55 48.297	+2.9703	+0.0021	−0.0005	+ 4 22 23.11	−0.367	+0.433	−0.017	8	3.48
1862	Oeltzen 17707	7.7	56 3.782	1.3483	0.0029		+52 13 31.00	0.344	0.197		12	3.62
1863	67 Ophiuchi	3.9	56 8.171	3.0040	0.0021	+0.0001	+ 2 56 6.58	0.338	0.438	−0.014	9	3.97
1864	Bradley 2253	6.3	56 9.312	3.4850	0.0021	0.0000	−17 9 15.06	0.336	0.508	−0.012	9	3.75
1865	Groomb. 2500	7.2	17 59 51.578	+1.7715	+0.0024		+44 13 58.33	−0.012	+0.258		8	3.46

1829 Var., 4m.4–5m.0.

[From observations in 1911–1918]

No.	Name	Magnitude	Right Ascension 1910.0	Annual Precession 1910.0	Secular Variation 1910.0	Annual Proper Motion	Declination 1910.0	Annual Precession 1910.0	Secular Variation 1910.0	Annual Proper Motion	Number of Observations	Mean Date
			h m s	s	s	s	° ′ ″	″	″	″		1910+
1866	γ Sagittarii	3.1	18 0 1.520	+3.8574	+0.0015	−0.0046	−30 25 33.90	+0.002	+0.562	−0.194	8	3.46
1867	70 Ophiuchi	4.3	0 54.352	+3.0137	+0.0018	+0.017†	+2 31 9.28	+0.079	+0.439	−1.10†	8	3.46
1868	Weisse$_2$ XVII 1913	7.5	1 9.216	+1.9719	+0.0023	------	+39 28 31.45	+0.101	+0.287	-----	8	3.54
1869	δ Ursæ Min	4.4	1 17.70	−19.515	−0.026	+0.020	+86 36 50.83	+0.113	−2.845	+0.048	30 34	5.07 5.04
1870	δ Ursæ Min. s. P	4.4	18 1 17.72	−19.515	−0.026	+0.020	+86 36 50.93	+0.113	−2.845	+0.048	48 51	5.82 5.43
1871	Piazzi XVII 356	6.2	18 1 47.408	+3.5977	+0.0014	−0.0010	−21 27 13.62	+0.157	+0.524	+0.003	8	3.86
1872	Piazzi XVII 359	4.7	2 22.922	3.7971	0.0012	+0.0013	−28 28 4.20	0.208	0.553	−0.033	8	3.99
1873	72 Ophiuchi	3.7	3 4.894	2.8477	0.0018	−0.0042	+ 9 33 1.78	0.269	0.415	+0.082	10 9	4.03 3.99
1874*	Weisse$_2$ XVII 1951	6.8	3 18.819	2.6917	0.0019	0.0000	+15 54 29.95	0.290	0.392	−0.169	8	3.51
1875	Weisse$_1$ XVII 1302	6.8	18 3 56.326	+3.1407	+0.0016	------	− 2 55 17.03	+0.345	+0.458	-----	8	3.60
1876	o Herculis	3.8	18 4 1.825	+2.3395	+0.0021	+0.0002	+28 44 58.39	+0.353	+0.341	+0.002	28 8	6.09 4.04
1877	Bradley 2279	6.0	4 11.730	2.4184	0.0021	−0.0002	+26 5 0.06	0.367	0.352	+0.028	8	3.98
1878	Rad. 90, 4744	6.5	4 36.760	3.4044	0.0013	------	−13 57 0.22	0.403	0.496	-----	8	4.01
1879	Groomb. 2518	6.3	4 51.381	1.4972	0.0022	------	+49 41 48.53	0.425	0.218	-----	8	3.48
1880	Weisse$_1$ XVIII 29	7.1	18 5 19.712	+2.9276	+0.0017	------	+ 6 11 21.42	+0.466	+0.426	-----	8	3.46
1881	Bradley 2321	5.8	18 6 52.874	−4.4980	−0.0152	+0.0171	+79 59 36.57	+0.602	−0.656	+0.114	8	3.50
1882	Bradley 2321 s. P	5.8	6 52.941	−4.4980	−0.0152	+0.0171	+79 59 36.02	0.602	−0.656	+0.114	8	3.93
1883	μ Sagittarii	4.0	8 22.794	+3.5874	+0.0006	+0.0003	−21 4 59.43	0.733	+0.522	−0.005	8 16	3.48 2.98
1884	B. D.+38° 3113	5.9	10 4	+2.0011	+0.0021	−0.0022	+38 44 52.43	0.881	+0.291	−0.001	-- 4	--- 6.60
1885	η Sagittarii	3.2	18 11 32	+4.0706	−0.0011	−0.0115	−36 47 23.29	+1.009	+0.592	−0.167	-- 23	--- 7.22
1886	B. D.−17° 5112	6.0	18 11 57.358	+3.4909	+0.0004	+0.0007	−17 24 19.92	+1.045	+0.508	+0.013	8	3.42
1887	Bradley 2292	6.3	12 26.757	3.3028	+0.0007	------	− 9 47 23.91	1.088	0.480	-----	11	3.65
1888	B. D.+30° 3162	7.0	12 26.802	2.2906	+0.0020	------	+30 22 6.69	1.088	0.333	-----	8	3.96
1889	Groomb. 2533	5.4	12 50.730	1.8657	+0.0020	−0.0005	+42 7 41.29	1.123	0.271	−0.007	23 8	5.70 3.93
1890	36 Draconis	5.0	18 13 22.837	+0.2921	−0.0007	+0.0532	+64 22 0.01	+1.169	+0.042	+0.030	8	3.48
1891	Weisse$_1$ XVIII 253	6.2	18 13 55.647	+2.7463	+0.0016	------	+13 44 31.86	+1.218	+0.399	-----	8	3.55
1892	δ Sagittarii	2.8	15 13.914	3.8383	−0.0010	+0.0028	−29 52 1.66	1.331	0.558	−0.036	8	3.96
1893	Bradley 2300	5.5	15 28.395	2.4675	+0.0018	+0.0012	+24 24 28.59	1.352	0.358	−0.004	8	3.55
1894	Bradley 2299	4.9	16 22.427	2.9948	+0.0011	−0.0010	+ 3 20 10.25	1.431	0.435	−0.003	8	3.95
1895	η Serpentis	3.4	18 16 38.966	+3.1406	+0.0008	−0.0376	− 2 55 25.60	+1.455	+0.456	−0.700	75 29	4.24 4.41
1896	ε Sagittarii	2.0	18 18 11.879	+3.9856	−0.0021	−0.0035	−34 25 40.96	+1.590	+0.578	−0.132	9	3.32
1897	109 Herculis	3.9	19 51.757	2.5419	+0.0016	+0.0138	+21 43 40.46	1.735	0.368	−0.261	84 53	4.39 4.26
1898	Bradley 2303	5.0	19 59.395	3.5727	−0.0008	+0.0006	−20 35 26.31	1.746	0.518	−0.021	8	3.95
1899	μ Lyræ	5.0	21 15.815	1.9773	+0.0018	−0.0018	+39 27 ----	1.857	0.286	−0.010	11 --	7.06 ---
1900	Pulk. 55, 2591	5.7	18 21 18.945	+2.8860	+0.0011	−0.0003	+ 7 58 50.88	+1.862	+0.418	−0.001	8	3.51
1901	φ Draconis	4.2	18 22 2.859	−0.8553	−0.0109	−0.0008	+71 17 24.79	+1.926	−0.125	+0.032	8	3.96
1902	φ Draconis s. P	4.2	22 2.855	−0.8553	−0.0109	−0.0008	+71 17 24.77	1.926	−0.125	+0.032	8	4.03
1903	λ Sagittarii	2.9	22 24.943	+3.7061	−0.0016	−0.0035	−25 28 20.09	1.958	+0.537	−0.191	8	3.54
1904	Lac. 7724	6.3	22 29.166	+3.7447	−0.0018	+0.0018	−26 48 42.08	1.964	+0.542	−0.032	9	3.68
1905	Pulk. 55, 2594	5.7	18 22 30.411	+2.3116	+0.0018	+0.0008	+29 46 35.18	+1.966	+0.334	−0.033	8 7	4.02 3.94
1906	χ Draconis	3.7	18 22 41.151	−1.1956	−0.0144	+0.1169	+72 41 37.61	+1.981	−0.174	−0.367	8 16	3.50 2.99
1907	χ Draconis s. P	3.7	22 41.120	−1.1956	−0.0144	+0.1169	+72 41 37.04	1.981	−0.174	−0.367	8	3.40
1908	2 H. Scuti	4.7	24 4.024	+3.4193	−0.0006	+0.0002	−14 37 26.23	2.101	+0.495	−0.008	8	3.55
1909	c Serpentis	5.4	24 59.903	+3.1199	+0.0003	+0.0015	− 2 2 38.97	2.182	+0.451	−0.031	7 8	3.71 3.57
1910	Lac. 7746	5.4	18 25 10.579	+3.9368	−0.0033	−0.0004	−33 2 58.28	+2.198	+0.569	−0.052	8	3.56
1911	Dorpat 30, 2100	5.8	18 26 26.166	+3.3272	−0.0005	−0.0011	−10 51 30.83	+2.307	+0.481	−0.026	9	4.02
1912	Pulk. 55, 2607	5.7	27 4.204	2.6702	+0.0013	−0.0035	+16 51 55.85	2.362	0.386	−0.023	7	3.77
1913	Groomb. 2589	7.2	28 5.278	1.9178	+0.0016		+41 2 29.40	2.451	0.276	---	9 8	3.68 3.47
1914*	Groomb. 2596	6.9	29 50.624	2.0084	+0.0016	−0.0003	+38 46 0.72	2.603	0.289	−0.092	9 13	3.62 4.53
1915	Bradley 2329	5.2	18 30 2.231	+3.3312	−0.0008	+0.0035	−11 2 52.91	+2.620	+0.480	−0.008	8	3.54
1916	Groomb. 2601	6.4	18 30 7.681	+1.3739	+0.0004	-----	+52 2 51.17	+2.628	+0.197	-----	8	3.63
1917	1 Aquilæ	4.1	30 18.526	3.2660	−0.0006	−0.0015	− 8 18 29.10	2.643	0.471	−0.317	8	4.05
1918	Lal. 34436	6.4	30 27.173	2.5800	+0.0014	------	+20 23 45.37	2.656	0.372	-----	8	3.53
1919	Weisse$_1$ XVIII 668	6.4	30 33.585	2.8194	+0.0009	--	+10 49 14.41	2.665	0.406	-----	8	4.02
1920	Bradley 2340	5.0	18 31 1.320	+1.0353	−0.0010	−0.0005	+56 58 35.47	+2.705	+0.148	−0.010	8	4.03

1867. Comp., 6^m.0, 2″.1, s. The proper motion is variable due to orbital motion. 1877. Comp., 5^m.9, 14″, n. f. 1898. Comp.. 8^m.5, 1″ 8, n. pr. 1901 Double, 5^m, 6^m, 0″.5.

[From observations in 1911–1918]

No.	Name	Magnitude	Right Ascension 1910.0	Annual Precession 1910.0	Secular Variation 1910.0	Annual Proper Motion	Declination 1910.0	Annual Precession 1910.0	Secular Variation 1910.0	Annual Proper Motion	Number of Observations	Mean Date
			h m s	s	s	s	° ′ ″	″	″	″		1910+
1921	Groomb. 2603	6.7	18 31 15.040	+1.6944	+0.0011	------	+46 8 52.36	+2.725	+0.244	-----	8	3.57
1922	B. D.+38° 3229	6.9	32 20	+2.0079	+0.0015	−0.0012	+38 49 15.94	2.820	+0.288	−0.014	-- 4	--- 6.63
1923	Fedor. 2982	6.8	32 33.214	−0.1542	−0.0099	------	+67 42 22.94	2.838	−0.024	-----	8	3.97
1924	Weisse$_1$ XVIII 715	7.0	32 34.555	+3.0523	+0.0001	------	+ 0 52 28.15	2.840	+0.439	-----	8	3.47
1925	Piazzi XVIII 128	6.8	18 32 37.921	+3.4848	−0.0018	−0.0009	−17 18 29.33	+2.845	+0.502	+0.003	8	3.97
1926	α Lyræ	0.1	18 33 53.532	+2.0136	+0.0015	+0.0174	+38 41 59.44	+2.954	+0.289	+0.279	55 50	6.66 6.71
1927	Bradley 2412	6.2	36 3.378	−7.8509	−0.2321	------	+83 6 37.06	3.141	−1.132	-----	8	3.48
1928	Bradley 2412 s. p.	6.2	36 3.265	−7.8509	−0.2321	------	+83 6 37.19	3.141	−1.132	-----	8	4.03
1929	Piazzi XVIII 174	5.6	36 44.683	+0.5442	−0.0050	+0.0010	+62 26 40.02	3.200	+0.077	+0.031	8	3.53
1930	2 Aquilæ	4.7	18 37 20.714	+3.2847	−0.0012	+0.0009	− 9 8 21.56	+3.252	+0.471	−0.004	8	3.58
1931	Weisse$_2$ XVIII 1091	6.5	18 38 17.364	+2.2640	+0.0015	------	+31 31 49.15	+3.334	+0.324	-----	8	3.47
1932	Bradley 2343	5.1	38 37.133	3.2662	−0.0012	+0.0013	− 8 21 53.56	3.362	0.468	+0.010	8	3.98
1933	Piazzi XVIII 155	5.8	39 17.621	3.6894	−0.0039	−0.0001	−25 6 7.28	3.420	0.528	−0.026	8	3.51
1934	φ Sagittarii	3.3	40 2.041	3.7455	−0.0045	+0.0036	−27 5 2.45	3.484	0.536	−0.003	8	3.96
1935	Bradley 2345	5.8	18 40 54.955	+3.6169	−0.0036	+0.0019	−22 29 13.52	+3.560	+0.517	+0.001	8	3.47
1936	ϵ^2 Lyræ *mean*	4.5	18 41 23.781	+1.9881	+0.0013	+0.0014	+39 31 ----	+3.601	+0.284	+0.062	15 --	6.36 ---
1937	110 Herculis	4.3	41 47.247	2.5822	+0.0011	−0.0015	+20 27 33.08	3.635	0.369	−0.344	8 23	3.96 3.35
1938	6 Aquilæ	4.5	42 23.930	3.1839	−0.0010	−0.0007	− 4 50 41.64	3.688	0.455	−0.023	8	3.46
1939	Lal. 34925	6.3	42 44.397	2.6303	+0.0010	------	+18 36 33.17	3.717	0.375	-----	8	3.57
1940	Nova Aquilæ	var.	18 44 18.972	+3.0615	−0.0005	------	+ 0 28 59.15	+3.852	+0.436	-----	5	8.58
1941	Weisse$_1$ XVIII 1064	6.5	18 45 25.972	+3.3914	−0.0025	------	−13 40 34.70	+3.948	+0.483	-----	8	3.52
1942	B. D.+7° 3862	7.1	46 4.283	2.9035	+0.0001	------	+ 7 21 16.02	4.003	0.413	-----	8	3.95
1943	Weisse$_2$ XVIII 1344	6.9	46 17.415	2.4249	+0.0013	------	+26 19 12.38	4.022	0.345	-----	8	3.53
1944	Bradley 2362	6.0	46 38.530	3.1508	−0.0011	+0.0001	− 3 25 25.73	4.052	0.448	−0.037	8	3.99
1945	β Lyræ	var.	18 46 45.352	+2.2142	+0.0014	+0.0003	+33 15 27.48	+4.061	+0.314	−0.007	36 8	5.82 3.47
1946	Lac. 7899	6.3	18 46 54.066	+3.8124	−0.0061	0.0000	−29 29 12.02	+4.074	+0.542	−0.038	8	4.02
1947	Bradley 2371	5.3	48 25.721	+2.5626	+0.0011	−0.0010	+21 18 57.93	4.204	+0.364	−0.013	8	3.47
1948	50 Draconis	5.4	49 16.913	−1.9142	−0.0534	−0.0035	+75 19 41.86	4.278	−0.275	+0.077	9	3.78
1949	50 Draconis s. p.	5.4	49 16.840	−1.9142	−0.0534	−0.0035	+75 19 42.22	4.278	−0.275	+0.077	9	3.49
1950	σ Sagittarii	2.1	18 49 41.109	+3.7206	−0.0057	+0.0006	−26 24 33.46	+4.312	+0.528	−0.066	94 84	5.08 5.26
1951	o Draconis	4.8	18 49 52.403	+0.8768	−0.0046	+0.0108	+59 16 41.30	+4.328	+0.123	+0.023	8 26	4.06 3.41
1952	B. D.+38° 3336	7.7	50 11	2.0230	+0.0012	------	+38 49 8.16	4.355	0.286	-----	-- 4	--- 6.64
1953	Cape 50, 3710	5.6	50 19.947	3.4586	−0.0035	−0.0018	−16 29 13.64	4.367	0.490	−0.185	8	3.97
1954	δ^1 Lyræ	5.5	50 34.883	2.0949	+0.0013	−0.0006	+36 51 31.15	4.388	0.296	−0.009	8	3.51
1955	θ Serpentis *pr.*	4.5	18 51 44.708	+2.9795	−0.0005	+0.0031	+ 4 5 8.89	+4.488	+0.421	+0.027	8	3.98
1956	Bradley 2375	5.0	18 52 14.527	+3.2085	−0.0018	+0.0042	− 5 57 49.41	+4.530	+0.454	−0.032	8	3.53
1957	ξ Sagittarii	3.6	52 21.655	3.5781	−0.0047	+0.0023	−21 13 32.08	4.540	0.506	−0.018	9	4.05
1958	R Lyræ	var.	52 35.730	1.8234	+0.0007	+0.0026	+43 49 37.90	4.560	0.257	+0.072	13 8	4.53 3.47
1959	Bradley 2379	5.6	52 44.973	3.0176	−0.0007	−0.0003	+ 2 24 59.24	4.573	0.426	−0.018	8	3.51
1960	Bradley 2385	5.9	18 54 38.982	+2.7539	+0.0004	−0.0005	+13 47 6.09	+4.735	+0.388	−0.052	8	3.47
1961	υ Draconis	4.9	18 55 30.164	−0.7336	−0.0306	+0.0110	+71 10 37.99	+4.807	−0.106	+0.040	8	3.96
1962	υ Draconis s. p.	4.9	55 30.120	−0.7336	−0.0306	+0.0110	+71 10 37.69	4.807	−0.106	+0.040	8	3.41
1963	ϵ Aquilæ	4.2	55 32.201	+2.7262	+0.0005	−0.0044	+14 56 43.20	4.810	+0.384	−0.077	8	4.02
1964	γ Lyræ	3.3	55 34.541	+2.2440	+0.0013	−0.0002	+32 33 55.93	4.814	+0.316	−0.007	134 120	4.94 5.01
1965	Groomb. 2727	6.1	18 55 49.817	+1.9627	+0.0010	------	+40 33 18.54	+4.835	+0.276	-----	8 7	3.51 3.80
1966	ζ Sagittarii	2.7	18 56 53.150	+3.8207	−0.0079	−0.0016	−30 0 34.49	+4.925	+0.538	0.000	8	3.97
1967	Lal. 35530	7.0	58 48.378	3.6220	−0.0059	−0.0013	−23 1 45.69	5.087	0.509	−0.069	8 7	3.45 3.73
1968	Weisse$_2$ XVIII 1757	6.2	18 58 57.197	2.6141	+0.0008	------	+19 31 45.52	5.100	0.366	-----	8	3.51
1969	ζ Aquilæ	3.0	19 1 16.361	2.7576	+0.0002	−0.0006	+13 43 44.02	5.296	0.386	−0.102	107 81	4.86 4.99
1970	τ Sagittarii	3.4	19 1 19.286	+3.7521	−0.0078	−0.0045	−27 48 10.53	+5.300	+0.525	−0.260	9 8	3.29 3.51
1971	λ Aquilæ	3.6	19 1 28.340	+3.1857	−0.0023	−0.0017	− 5 1 6.06	+5.313	+0.446	−0.090	8	3.96
1972	Groomb. 2759	6.8	1 55.401	1.7488	+0.0002	------	+45 47 4.94	5.351	0.243	-----	8	4.06
1973	Lal. 35719	6.7	1 55.559	3.1059	−0.0017	------	− 1 29 4.74	5.351	0.434	-----	8	3.52
1974	Bradley 2416	5.4	2 53.798	1.3493	−0.0021	−0.0006	+53 15 29.29	5.433	0.187	+0.021	8	3.57
1975	Piazzi XVIII 318	5.5	19 3 3.391	+2.3746	+0.0012	+0.0054	+28 29 11.90	+5.446	+0.331	+0.068	8	4.06

1936. Double, $5^m.1$, $5^m.4$, 2″.4.
1940. Var., $3^m.7$–$4^m.7$ from July 15 to Aug. 15, 1918.
1945. Var., $3^m.4$–$4^m.1$.
1955. Star, $5^m.4$, 22″, s. f.
1958. Var., $4^m.0$–$4^m.7$.
1966. Binary, $3^m.4$, $3^m.6$, 0″.5.
1967. Comp., $8^m.3$, 8″.1, n. pr.

[From observations in 1911–1918]

No.	Name	Magnitude	Right Ascension 1910.0	Annual Precession 1910.0	Secular Variation 1910.0	Annual Proper Motion	Declination 1910.0	Annual Precession 1910.0	Secular Variation 1910.0	Annual Proper Motion	Number of Observations	Mean Date
			h m s	s	s	s	° ′ ″	″	″	″		1910+
1976	Schwerd 1139	6.8	19 3 37.531	− 6.3619	− 0.3064	------	+82 14 32.63	+5.494	−0.895	-----	8	3.54
1977	Schwerd 1139 s. P	6.8	3 37.643	− 6.3619	− 0.3064	------	+82 14 32.71	5.494	−0.895	-----	8	3.42
1978	17 Lyræ	5.0	4 1.318	+ 2.2586	+ 0.0012	+0.0095	+32 21 33.51	5.527	+0.314	+0.013	7 8	3.79 3.51
1979	ι Lyræ	5.1	4 5.320	+ 2.1407	+ 0.0012	−0.0006	+35 57 30.70	5.533	+0.298	−0.006	11 8	4.36 4.00
1980	π Sagittarii	3.0	19 4 24.726	+ 3.5697	− 0.0061	−0.0004	−21 10 2.60	+5.560	+0.498	−0.040	8	3.56
1981	Bradley 2410	5.4	19 4 35.367	+ 2.9392	− 0.0008	−0.0010	+ 5 55 51.41	+5.575	+0.409	−0.074	8	4.01
1982	B. D.+38° 3441	7.5	4 43	2.0411	+ 0.0010	+0.0010	+38 47 6.71	5.587	0.283	+0.007	.. 4	--- 6.62
1983	Piazzi XIX 7	5.9	7 41.114	3.6977	− 0.0080	−0.0015	−26 3 30.14	5.835	0.513	−0.006	8	3.48
1984	Bradley 2415	5.4	7 47.783	3.2542	− 0.0032	+0.0005	− 8 5 26.42	5.844	0.451	−0.016	8	3.96
1985	Paris 25568	5.6	19 8 13.654	+ 3.3542	− 0.0042	+0.0009	−12 26 3.25	+5.880	+0.465	−0.033	8 6	3.47 4.13
1986	19 Lyræ	5.8	19 8 18.815	+ 2.3009	+ 0.0012	−0.0009	+31 8 ----	+5.887	+0.318	−0.007	16 --	6.18 ---
1987	Bradley 2433	5.2	9 58.409	+ 1.1317	− 0.0046	+0.0047	+56 42 20.55	6.026	+0.155	+0.040	8	3.56
1988	ψ Sagittarii	4.9	10 1.367	+ 3.6780	− 0.0081	+0.0030	− 25 24 45.12	6.030	+0.509	−0.035	8	3.61
1989	B. D.+38° 3490	4.5	10 41	+ 2.0417	+ 0.0010	0.0000	+38 59 26.40	6.086	+0.281	−0.003	-- 4	--- 6.64
1990	λ Ursæ Min	6.6	19 10 58.15	−70.292	−24.494	−0.107	+89 0 21.82	+6.109	−9.762	+0.010	16 35	4.76 3.83
1991	λ Ursæ Min. s. P	6.6	19 10 57.98	−70.292	−24.494	−0.107	+89 0 22.05	+6.109	−9.762	+0.010	27 30	3.85 4.09
1992	Bradley 2425	5.6	11 24.606	+ 2.5823	+ 0.0007	+0.0030	+21 4 26.95	6.145	+0.356	+0.011	8	3.53
1993	22 Aquilæ	5.4	12 3.727	+ 2.9686	− 0.0012	+0.0006	+ 4 40 31.47	6.200	+0.409	−0.014	8	3.95
1994	d Sagittarii	5.0	12 22.169	+ 3.5127	− 0.0063	−0.0009	−19 6 49.38	6.225	+0.484	−0.019	8	3.52
1995	δ Draconis	3.2	19 12 32.260	+ 0.0059	− 0.0230	+0.0173	+67 30 12.16	+6.239	−0.002	+0.089	27 24	5.61 5.96
1996	δ Draconis s. P	3.2	19 12 32.193	+ 0.0059	− 0.0230	+0.0173	+67 30 12.67	+6.239	−0.002	+0.089	8 15	3.43 5.46
1997	θ Lyræ	4.5	13 14.575	2.0822	+ 0.0010	−0.0009	+37 58 22.66	6.298	+0.286	−0.003	14 8	4.90 4.03
1998	ω Aquilæ	5.1	13 35.469	2.8161	− 0.0003	−0.0001	+11 25 56.95	6.327	+0.387	+0.011	8	3.47
1999	B. D.+38° 3520	6.6	14 15	2.0481	+ 0.0009	------	+38 57 31.64	6.382	+0.280	-----	-- 4	--- 6.63
2000	κ Cygni	4.0	19 15 1.344	+ 1.3808	− 0.0027	+0.0071	+53 12 7.93	+6.446	+0.188	+0.117	8	3.62
2001	Bradley 2435	5.1	19 15 44.624	+ 3.1961	− 0.0032	+0.0069	− 5 35 4.24	+6.505	+0.438	+0.039	8	3.58
2002	Lal. 36478	6.2	15 51.035	+ 2.1104	+ 0.0010	------	+37 16 43.57	6.514	+0.288	-- --	8	3.53
2003	159 B. Lyræ	6.7	15 57.510	+ 2.0049	+ 0.0008	−0.0003	+40 12 ----	6.523	+0.274	+0.009	11 --	6.07 ---
2004	τ Draconis	4.6	17 17.238	− 1.1015	− 0.0566	−0.0319	+73 11 19.53	6.633	−0.154	+0.110	8 27	3.53 3.26
2005	τ Draconis s. P	4.6	19 17 17.137	− 1.1015	− 0.0566	−0.0319	+73 11 19.77	+6.633	−0.154	+0.110	8	3.62
2006	π Draconis	4.6	19 20 12.477	+ 0.3126	− 0.0191	+0.0031	+65 32 28.28	+6.873	+0.040	+0.041	9	3.72
2007	Brussels 8113	5.8	20 16.548	3.3873	− 0.0056	+0.0048	−14 4 33.43	6.879	0.461	+0.050	8	4.00
2008	Bradley 2456	4.9	20 34.595	2.3643	+ 0.0011	+0.0007	+29 26 41.21	6.904	0.321	+0.010	8	3.50
2009	b Aquilæ	5.2	20 40.851	2.8116	− 0.0005	+0.0494	+11 45 6.65	6.912	0.382	+0.631	8	3.60
2010	Bradley 2448	5.6	19 20 57.134	+ 3.5780	− 0.0081	+0.0018	−21 57 19.97	+6.934	+0.486	+0.001	8	3.53
2011	δ Aquilæ	3.4	19 20 57.676	+ 3.0082	− 0.0018	+0.0169	+ 2 56 5.01	+6.935	+0.408	+0.077	66 56	3.77 3.62
2012	B. D.+38° 3575	7.6	21 5	2.0561	+ 0.0009	------	+39 2 8.49	6.946	0.278	-----	-- 5	--- 6.64
2013	186 G. Sagittarii	5.7	21 15.282	3.7938	− 0.0114	+0.0009	−29 55 18.95	6.959	0.516	−0.055	11	4.01
2014	Bradley 2462	6.0	22 32.374	2.6244	+ 0.0004	−0.0012	+19 42 42.88	7.065	0.355	−0.054	8	3.50
2015	4 Cygni	5.2	19 22 54.565	+ 2.1599	+ 0.0011	+0.0005	+36 8 ----	+7.095	+0.292	+0.006	13 --	6.79 ---
2016*	Groomb. 2844	6.7	19 23 11.789	+ 1.8340	+ 0.0001	−0.0045	+44 45 7.05	+7.118	+0.247	−0.085	8	3.55
2017	Piazzi XIX 126	5.5	24 18.224	+ 3.7126	− 0.0106	+0.0010	−27 10 14.28	7.209	+0.502	−0.048	10	4.09
2018	Lal. 36813	6.5	24 41.559	+ 3.0712	− 0.0025	------	+ 0 3 37.97	7.240	+0.414	-----	8	3.56
2019	Rad. 45, 4348	var.	24 46.209	− 2.0707	− 0.1050	------	+76 22 53.82	7.247	−0.285	-----	8	4.06
2020	Rad. 45, 4348 s. P	var.	19 24 46.188	− 2.0707	− 0.1050	------	+76 22 54.00	+7.247	−0.285	-----	8	3.49
2021	6 Vulpeculæ	4.6	19 24 57.527	+ 2.5053	+ 0.0008	−0.0093	+24 28 55.11	+7.262	+0.337	−0.113	8	4.02
2022	B. D.+62° 1716	6.5	25 24.074	+ 0.6944	− 0.0129	------	+62 22 21.62	7.298	+0.091	-----	8	3.50
2023	Carr. 2965	6.3	26 42.483	− 7.4824	− 0.5484	------	+83 17 21.16	7.404	−1.017	-----	8	3.60
2024	Carr. 2965 s. P	6.3	26 42.621	− 7.4824	− 0.5484	------	+83 17 21.24	7.404	−1.017	-----	8	4.02
2025	Lal. 36978	5.6	19 26 54.736	+ 2.2496	+ 0.0011	------	+33 32 24.03	+7.422	+0.302	-----	8	3.50
2026	β Cygni	3.2	19 27 5.445	+ 2.4190	+ 0.0010	−0.0002	+27 46 12.14	+7.436	+0.324	−0.009	111 101	4.91 4.89
2027	Weisse$_1$ XIX 608	7.2	27 17.040	2.9514	− 0.0016	------	+ 5 34 40.27	7.451	0.396	-----	8	3.95
2028	ι Cygni	3.9	27 26.158	1.5111	− 0.0022	+0.0021	+51 32 15.84	7.464	0.201	+0.124	8 26	3.53 3.25
2029	8 Cygni	4.8	28 25.543	2.2291	+ 0.0011	−0.0002	+34 16 ----	7.544	0.298	−0.003	2 --	6.24 ---
2030	μ Aquilæ	4.6	19 29 41.583	+ 2.9167	− 0.0014	+0.0143	+ 7 11 13.52	+7.646	+0.390	−0.152	8	3.49

2019. Variable, approx. 6^m.5; range of variation not known.

[From observations in 1911–1918]

No.	Name	Magnitude	Right Ascension 1910.0	Annual Precession 1910.0	Secular Variation 1910.0	Annual Proper Motion	Declination 1910.0	Annual Precession 1910.0	Secular Variation 1910.0	Annual Proper Motion	Number of Observations	Mean Date
			h m s	s	s	s	° ′ ″	″	″	″		1910+
2031	*h* Sagittarii	4.7	19 31 13.900	+3.6491	−0.0105	+0.0053	−25 4 58.70	+ 7.771	+0.487	−0.025	9	4.02
2032	Oeltzen 19454	6.2	31 43.689	−0.4606	−0.0447	------	+70 47 38.08	7.811	−0.065	-----	8	4.05
2033	Piazzi XIX 180	5.9	31 50.043	+3.4826	−0.0079	+0.0009	−18 25 53.57	7.819	+0.464	−0.026	8	3.50
2034	κ Aquilæ	5.0	32 2.972	+3.2285	−0.0045	+0.0002	− 7 13 41.75	7.837	+0.430	−0.002	8	3.56
2035	Groomb. 2880	6.7	19 32 6.206	+1.7081	−0.0008	------	+47 58 4.03	+ 7.841	+0.226	-----	8	3.54
2036	Weisse$_2$ XIX 960	6.8	19 33 14.034	+2.5815	+0.0006	------	+21 48 13.61	+ 7.932	+0.342	-----	8	3.52
2037	θ Cygni	4.6	34 1.623	1.6114	−0.0016	−0.0029	+50 0 45.46	7.996	0.212	+0.247	8	4.04
2038	Lal. 37262	6.4	34 18.584	3.0045	−0.0022	------	+ 3 10 35.52	8.018	0.398	-----	8	4.03
2039	54 Sagittarii	5.4	35 34.079	3.4345	−0.0075	+0.0046	−16 30 0.83	8.119	0.454	−0.054	8	3.47
2040	14 Cygni	5.4	19 36 30.661	+1.9505	+0.0005	+0.0019	+42 36 ----	+ 8.194	+0.256	+0.024	22 --	6.50 ---
2041	Groomb. 2907	5.9	19 36 39.751	+1.3465	−0.0044	+0.0052	+54 45 45.69	+ 8.207	+0.176	+0.170	9	3.74
2042	β Sagittæ	4.4	37 0.355	2.6938	0.0000	+0.0001	+17 16 0.86	8.234	0.355	−0.038	8 24	3.55 3.27
2043	Bradley 2500	6.3	37 59.442	2.8144	−0.0007	−0.0006	+11 58 53.19	8.312	0.370	−0.008	8	3.52
2044	15 Cygni	5.0	41 1.804	2.1572	+0.0011	+0.0057	+37 8 10.90	8.554	0.281	+0.034	24 9	5.47 3.75
2045	*f* Sagittarii	5.1	19 41 6.730	+3.5118	−0.0093	−0.0095	−19 58 41.74	+ 8.560	+0.459	−0.096	8	3.52
2046	γ Aquilæ	2.8	19 41 58.829	+2.8513	−0.0011	+0.0009	+10 23 35.96	+ 8.629	+0.372	−0.004	147 111	4.56 5.16
2047	δ Cygni	3.0	42 9.692	1.8705	+0.0001	+0.0050	+44 54 38.67	8.643	0.242	+0.037	14 8	4.70 3.56
2048	δ Sagittæ	3.8	43 22.427	2.6745	+0.0001	+0.0001	+18 18 41.56	8.738	0.347	+0.009	8	3.99
2049	Oeltzen 19977	6.1	43 34.701	3.7392	−0.0139	+0.0097	−29 0 40.00	8.754	0.487	−0.125	8	3.50
2050	Weisse$_2$ XIX 1346	6.0	19 44 2.241	+2.5083	+0.0009	------	+25 9 39.64	+ 8.791	+0.325	-----	8	4.03
2051	ζ Sagittæ, *mean*	5.0	19 44 58.882	+2.6618	+0.0002	+0.0013	+18 54 56.70	+ 8.865	+0.344	+0.025	8	3.55
2052	Bradley 2519	5.6	45 49.746	3.3049	−0.0064	−0.0016	−10 59 33.28	8.931	0.428	+0.036	9 8	4.00 4.06
2053	Lal. 37758	6.4	45 55.443	2.9113	−0.0017	------	+ 7 40 29.20	8.939	0.376	-----	8	3.52
2054	α Aquilæ	0.9	46 23.681	2.8912	−0.0015	+0.0361	+ 8 37 50.07	8.975	0.373	+0.380	133 116	4.80 5.20
2055	η Aquilæ	var.	19 47 53.286	+3.0564	−0.0032	+0.0005	+ 0 46 26.57	+ 9.092	+0.393	−0.009	9 8	3.74 3.62
2056	ε Draconis	4.0	19 48 28.994	−0.2023	−0.0444	+0.0158	+70 2 19.98	+ 9.138	−0.030	+0.031	8	3.53
2057	ε Draconis s. P	4.0	48 28.929	−0.2023	−0.0444	+0.0158	+70 2 19.71	9.138	−0.030	+0.031	8	3.52
2058	Paris 27025	5.6	48 35.899	+3.1421	−0.0043	+0.0010	− 3 20 53.29	9.147	+0.404	+0.006	8	3.52
2059	Lac. 8262	6.3	48 54.388	+3.6057	−0.0119	−0.0094	−24 9 57.09	9.171	+0.464	−0.411	8	4.03
2060	Bradley 2531	5.8	19 49 45.324	+3.2490	−0.0058	+0.0004	− 8 27 44.59	+ 9.237	+0.416	−0.021	8	3.54
2061	Weisse$_2$ XIX 1585	6.8	19 50 23.460	+2.2631	+0.0013	------	+34 20 54.17	+ 9.287	+0.288	-----	9	4.07
2062	Groomb. 2964	6.8	50 34.879	2.0390	+0.0009	------	+41 7 13.86	9.302	0.259	-----	8	3.60
2063	β Aquilæ	3.9	50 53.520	2.9444	−0.0021	+0.0023	+ 6 10 50.95	9.325	0.376	−0.483	83 65	3.60 3.67
2064	*g* Sagittarii	5.0	52 50.801	3.4042	−0.0085	+0.0004	−15 43 51.60	9.476	0.433	−0.090	3	3.51
2065	η Cygni	4.0	19 52 55.701	+2.2528	+0.0014	−0.0028	+34 50 37.57	+ 9.483	+0.285	−0.039	20 8	5.64 4.06
2066	ψ Cygni	4.8	19 53 18.116	+1.5560	−0.0027	−0.0044	+52 11 58.89	+ 9.512	+0.196	−0.031	11	3.91
2067	Piazzi XIX 371	5.1	54 12.356	1.1490	−0.0087	−0.0009	+58 36 19.02	9.581	0.143	−0.024	8	3.52
2068	γ Sagittæ	3.7	54 45.242	2.6632	+0.0002	+0.0042	+19 14 49.70	9.623	0.336	+0.016	8 18	3.58 3.61
2069*	Weisse$_1$ XIX 1305	6.4	54 48.116	3.0494	−0.0033	+0.003	+ 1 7 51.52	9.627	0.386	+0.05	8	4.03
2070	Weisse$_1$ XIX 1312	6.6	19 54 56.050	+2.8435	−0.0011	------	+11 3 37.73	+ 9.637	+0.359	-----	8	3.56
2071	Bradley 2553	5.7	19 55 18.747	+2.5790	+0.0007	−0.0053	+22 51 20.34	+ 9.666	+0.325	+0.012	8	3.57
2072	*c* Sagittarii	4.6	57 7.542	3.6913	−0.0148	+0.0027	−27 57 38.34	9.804	0.465	+0.010	8	3.54
2073	B. D.+38° 3862	7.1	57 21	2.1305	+0.0013	------	+38 57 31.51	9.822	0.267	-----	-- 4	--- 6.64
2074	15 Vulpeculæ	4.7	57 23.587	2.4660	+0.0012	+0.0039	+27 30 15.24	9.825	0.309	+0.006	8	3.64
2075	Lac. 8322	5.0	19 58 37.286	+3.8070	−0.0179	+0.0028	−32 18 33.96	+ 9.918	+0.478	−0.003	8	3.55
2076	Piazzi XIX 377	7.1	19 59 40.386	+3.5304	−0.0116	+0.0040	−21 34 5.96	+ 9.998	+0.442	−0.015	8	3.69
2077	Lac. 8334	7.1	59 42.614	3.6644	−0.0146	+0.0014	−27 4 5.91	10.001	0.459	−0.045	9	3.84
2078	τ Aquilæ	5.6	59 44.531	2.9298	−0.0020	+0.0009	+ 7 1 24.10	10.004	0.366	+0.021	8	3.57
2079	Pulk. 55, 2884	5.7	19 59 55.527	2.4134	+0.0014	+0.0516	+29 39 19.71	10.017	0.300	−0.527	9	3.79
2080	η Sagittæ	5.3	20 1 9.930	+2.6586	+0.0003	+0.0016	+19 43 57.00	+10.111	+0.330	+0.080	8	3.57
2081	Weisse$_1$ XIX 1472	6.6	20 1 27.635	+3.1599	−0.0050	------	− 4 20 6.55	+10.133	+0.393	-----	8	3.55
2082	Oeltzen 19983	6.0	1 47.181	1.7942	−0.0005	------	+47 58 23.52	10.158	0.221	-----	8	3.50
2083	Bradley 2573	5.5	3 1.025	2.2466	+0.0016	−0.0190	+35 43 24.70	10.251	0.277	−0.438	8 7	3.64 3.77
2084	Weisse$_1$ XIX 1531	6.4	3 30.139	2.8880	−0.0016	------	+ 9 8 16.29	10.287	0.357	-----	8	3.54
2085	Bradley 2586	5.6	20 4 7.018	+0.9427	−0.0140	+0.0177	+61 44 2.89	+10.333	+0.113	+0.072	8	3.58

2047. Comp., 8^m, 1″.6, n. pr.
2051. Double, 5^m.7, 6^m.0, 0″.2.
2055. Var., 3^m.7–4^m.5.
2056. Comp. 7^m.6, 3″.1 n.
2066. Comp., 7^m.4, 3″.5, s.
2084. Comp., 8^m, 4″, n. pr.

[From observations in 1911–1918]

No.	Name	Magnitude	Right Ascension 1910.0	Annual Precession 1910.0	Secular Variation 1910.0	Annual Proper Motion	Declination 1910.0	Annual Precession 1910.0	Secular Variation 1910.0	Annual Proper Motion	Number of Observations	Mean Date
			h m s	s	s	s	° ′ ″	″	″	″		1910+
2086	b^2 Cygni	4.8	20 6 4.973	+2.2273	+0.0016	−0.0004	+36 34	+10.480	+0.272	+0.009	9 ..	7.06 ...
2087	θ Aquilæ	3.4	6 39.684	3.0941	−0.0043	+0.0021	− 1 5 20.60	10.523	0.379	+0.003	78 74	3.91 3.75
2088	Bradley 2577	5.9	7 25.083	3.3321	−0.0083	+0.0128	−12 52 55.25	10.580	0.408	−0.193	8	3.59
2089	Groomb. 3087	6.4	10 1.431	1.6712	−0.0017	−0.0007	+51 11 32.23	10.772	0.201	−0.024	8	3.53
2090	Groomb. 3112	6.8	20 10 32.623	+0.2868	−0.0353	.....	+68 0 5.98	+10.811	+0.031	.....	8	3.54
2091	B. D.+38° 3963	7.0	20 10 40	+2.1652	+0.0017	.....	+38 53 6.13	+10.820	+0.261	.....	.. 4	... 6.66
2092	o Cygni *seq*	4.0	10 47.792	1.8888	+0.0004	+0.0002	+46 28 4.38	10.829	+0.227	+0.001	26 11	4.85 3.36
2093	33 Cygni	4.3	11 18.334	1.3892	−0.0057	+0.0073	+56 17 31.62	10.867	+0.166	+0.082	8	3.70
2094	Weisse$_1$ XX 199	6.6	11 37.338	+2.9881	−0.0029	.....	+ 4 18 20.17	10.890	+0.361	.....	9 8	3.80 3.68
2095	κ Cephei	4.4	20 11 56.167	−1.9594	−0.1680	+0.0038	+77 26 26.69	+10.913	−0.244	+0.026	8	3.59
2096	κ Cephei s. P	4.4	20 11 56.181	−1.9594	−0.1680	+0.0038	+77 26 26.77	+10.913	−0.244	+0.026	8	3.99
2097	Groomb. 3212	6.6	12 36.368	−8.3546	−1.0729	−0.008	+84 24 27.67	10.962	−1.025	−0.042	10 9	3.83 3.75
2098	Groomb. 3212 s. P	6.6	12 36.308	−8.3546	−1.0729	−0.008	+84 24 27.41	10.962	−1.025	−0.042	8	3.49
2099	24 Vulpeculæ	5.4	12 55.944	+2.5656	+0.0011	+0.0013	+24 23 35.76	10.986	+0.308	−0.020	8	3.63
2100	α^2 Capricorni	3.8	20 13 3.728	+3.3269	−0.0086	+0.0040	−12 49 28.16	+10.995	+0.401	+0.005	8	3.61
2101	σ Capricorni	5.5	20 14 12.089	+3.4647	−0.0116	+0.0004	−19 24 0.33	+11.079	+0.416	−0.009	8	3.58
2102	Bradley 2616	5.2	15 11.573	2.3035	+0.0019	+0.0012	+34 42 3.59	11.151	0.274	−0.007	11	3.74
2103*	Lal. 39042	6.7	15 38.608	3.2017	−0.0063	−0.0067	− 6 38 37.09	11.184	0.383	−0.087	8	3.53
2104	β Capricorni	3.2	15 57.351	3.3708	−0.0097	+0.0024	−15 3 58.57	11.206	0.403	+0.001	8 20	3.60 3.62
2105	Weisse$_1$ XX 334	6.3	20 16 9.341	+2.7906	−0.0006	.....	+14 17 5.12	+11.221	+0.332	.....	8	3.54
2106	176 B. Cygni	6.1	20 16 59.446	+2.1742	+0.0019	−0.0007	+39 7	+11.281	+0.257	−0.020	16 ..	6.37 ...
2107	Weisse$_2$ XX 600	7.1	18 44.113	2.5364	+0.0014	.....	+26 0 34.88	11.407	0.299	.....	8	3.62
2108	γ Cygni	2.3	18 59.831	2.1522	+0.0019	+0.0001	+39 58 5.04	11.426	0.253	−0.003	29 9	5.61 3.31
2109*	Groomb. 3157	6.3	19 49.366	2.0620	+0.0016	+0.005	+42 41 33.32	11.485	0.241	+0.03	8	3.66
2110	296 G. Sagittarii	6.0	20 19 56.313	+3.6783	−0.0177	+0.0009	−28 57 20.61	+11.494	+0.434	+0.005	9	3.77
2111	π Capricorni	5.2	20 22 10.222	+3.4365	−0.0116	+0.0007	−18 30 26.90	+11.653	+0.403	−0.013	8	3.52
2112	Weisse$_2$ XX 706	6.2	22 16.433	2.7397	0.0000	.....	+17 1 13.69	11.660	0.320	.....	9	3.72
2113	Lac. 8457	6.6	22 37.660	3.5999	−0.0159	+0.0005	−25 54 14.69	11.685	0.421	+0.026	9 8	3.76 3.53
2114	ρ Capricorni	5.0	23 43.705	3.4265	−0.0115	−0.0010	−18 6 42.48	11.763	0.399	−0.022	9	3.79
2115	Lal. 39389	6.3	20 23 44.686	+2.9178	−0.0020	.....	+ 8 8 20.58	+11.765	+0.339	.....	9 8	3.79 3.57
2116	Groomb. 3191	6.2	20 24 12.977	+1.4500	−0.0051	+0.0027	+56 20 29.72	+11.798	+0.166	+0.006	8	3.62
2117	40 Cygni	5.4	24 14.087	2.2241	+0.0022	−0.0016	+38 8 38.82	11.799	0.257	−0.071	9	3.85
2118	Piazzi XX 146	6.2	24 14.587	3.5242	−0.0140	+0.0009	−22 41 25.97	11.800	0.410	−0.026	8	3.66
2119	69 Aquilæ	5.1	24 56.785	3.1325	−0.0054	+0.0042	− 3 11 7.46	11.850	0.363	−0.021	8	3.63
2120	B. D.+38° 4102	7.1	20 25 7	+2.1992	+0.0022	.....	+39 1 44.59	+11.862	+0.253	.....	.. 4	... 6.68
2121	41 Cygni	4.1	20 25 43.012	+2.4500	+0.0020	+0.0007	+30 4 3.68	+11.904	+0.282	−0.004	16 20	4.84 3.63
2122	42 Cygni	5.9	25 54.311	2.2874	+0.0023	+0.0009	+36 9	11.917	0.263	−0.008	1 ..	6.76 ...
2123	Piazzi XX 174	5.8	27 28.380	3.2641	−0.0081	+0.0205	−10 9 39.43	12.027	0.376	+0.092	9	3.61
2124	θ Cephei	4.3	28 4.371	1.0060	−0.0155	+0.0066	+62 41 29.02	12.069	0.112	−0.018	33	6.33
2125	θ Cephei s. P	4.3	20 28 4	+1.0060	−0.0155	+0.0066	+62 41 29.14	+12.069	+0.112	−0.018	.. 7	... 7.66
2126	Bradley 2647	5.6	20 28 32.079	+1.8505	+0.0003	+0.0010	+48 54 57.96	+12.101	+0.210	−0.036	8	3.50
2127	ϵ Delphini	4.0	28 54.762	+2.8657	−0.0013	+0.0006	+10 59 48.56	12.128	+0.327	−0.026	58 48	4.50 4.47
2128	Weisse$_1$ XX 639	6.7	29 31.084	+2.9873	−0.0030	.....	+ 4 35 26.32	12.170	+0.341	.....	9	3.74
2129	Groomb. 3241	6.4	30 24.207	−0.2305	−0.0684	−0.0002	+72 13 36.40	12.231	−0.032	−0.025	8	3.65
2130	Groomb. 3241 s. P	6.4	20 30 24.190	−0.2305	−0.0684	−0.0002	+72 13 36.72	+12.231	−0.032	−0.025	8	3.48
2131	α Indi	3.2	20 31 14	+4.2290	−0.0401	+0.0039	−47 36 22.15	+12.289	+0.482	+0.061	.. 4	... 5.76
2132	73 Draconis	5.2	32 42.294	−0.7536	0.1030	+0.0027	+74 38 46.36	12.390	−0.092	−0.012	8	3.57
2133	73 Draconis s. P	5.2	32 42.314	−0.7536	0.1030	+0.0027	+74 38 46.80	12.390	−0.092	−0.012	10	4.56
2134	β Delphini	3.7	33 19.704	+2.8057	0.0005	+0.0074	+14 16 53.15	12.433	+0.316	−0.037	8	3.54
2135	Bradley 2704	5.6	20 33 55.608	−3.6197	−0.4006	+0.0122	+81 6 55.42	+12.474	−0.418	+0.013	8	3.67
2136	Bradley 2704 s. P	5.6	20 33 55.469	−3.6197	−0.4006	+0.0122	+81 6 55.60	+12.474	−0.418	+0.013	9	3.68
2137	Weisse$_1$ XX 799	6.6	34 20.845	+3.1684	−0.0063	.....	− 5 14 47.25	12.503	+0.356	.....	8	3.64
2138	θ Delphini	6.1	34 29.067	+2.8315	−0.0007	−0.0006	+12 59 54.86	12.512	+0.317	−0.018	9	3.82
2139	Bradley 2668	5.0	34 36.596	+2.6122	+0.0015	−0.0002	+23 47 59.12	12.521	+0.292	−0.011	8	3.59
2140	κ Delphini	5.2	20 34 45.509	+2.8929	−0.0016	+0.0213	+ 9 46 7.14	+12.531	+0.324	+0.012	8 8	3.58 4.10

2089. Comp., 11m, 4″, f.
2092. Star, 5m.0. pr, 19s, 270″, n; star, 7m.8, f. 1s, 96″, s.
2095. Comp., 8m, 7″.5, s. f
2111. Comp., 9m, 3″.4, s. f.
2114. Comp., 7m.6, 2″.8, s.
2134. Binary, 4m.1, 5m.4, 0″.5.

[From observations in 1911–1918]

No.	Name	Magnitude	Right Ascension 1910.0	Annual Precession 1910.0	Secular Variation 1910.0	Annual Proper Motion	Declination 1910.0	Annual Precession 1910.0	Secular Variation 1910.0	Annual Proper Motion	Number of Observations	Mean Date
			h m s	s	s	s	° ′ ″	″	″	″		1910+
2141	υ Capricorni	5.3	20 34 55.665	+3.4204	−0.0123	−0.0020	−18 27 22.05	+12.542	+0.384	−0.021	9 19	3.47 3.56
2142	α Delphini	3.9	35 27.427	+2.7821	−0.0001	+0.0044	+15 35 38.54	12.578	+0.310	−0.008	83 74	3.62 3.66
2143	Bradley 2675	5.8	37 23.886	+2.4271	+0.0026	+0.0001	+31 59 12.03	12.710	+0.268	−0.018	9	3.56
2144	B. D.+38° 4187	6.4	37 38	+2.2435	+0.0028	....	+38 45 40.67	12.726	+0.247	.....	-- 4	--- 6.68
2145	Rad. 45, 4976	6.2	20 38 8.584	−5.7202	−0.7667	+0.013	+83 18 52.39	+12.761	−0.649	−0.026	8	3.67
2146	Rad. 45, 4976 s. p	6.2	20 38 8.473	−5.7202	−0.7667	+0.013	+83 18 52.26	+12.761	−0.649	−0.026	8	4.02
2147	α Cygni	1.3	38 21.746	+2.0442	+0.0022	0.0000	+44 57 29.89	12.775	+0.224	−0.001	42 37	6.45 6.47
2148	δ Delphini	4.5	39 15.388	+2.8022	−0.0003	−0.0016	+14 45 4.20	12.835	+0.308	−0.051	8	3.54
2149	Rad. 45, 4956	6.8	39 34.145	−2.2579	−0.2482	.....	+79 6 42.24	12.857	−0.258	.....	8	3.53
2150	Rad. 45, 4956 s. p	6.8	20 39 34.185	−2.2579	−0.2482	.....	+79 6 42.29	+12.857	−0.258	.....	8	3.56
2151	Weisse $_2$ XX 1294	7.1	20 40 43.940	+2.6976	+0.0010	.....	+20 9 50.17	+12.934	+0.295	.....	8	3.59
2152	ψ Capricorni	4.3	40 46.108	3.5615	−0.0169	−0.0042	−25 35 42.43	12.937	0.391	−0.159	8	3.57
2153	γ Delphini *seq*	4.5	42 28.903	2.7855	0.0000	−0.0023	+15 47 57.26	13.051	0.303	−0.204	8	3.61
2154	ϵ Cygni	2.6	42 34.229	2.3980	+0.0030	+0.0288	+33 37 59.09	13.057	0.260	+0.322	96 66	5.08 5.23
2155	ϵ Aquarii	3.8	20 42 48.296	+3.2480	−0.0084	+0.0019	− 9 49 32.80	+13.072	+0.353	−0.034	8	3.61
2156	6 H. Cephei	4.6	20 43 7.013	+1.4989	−0.0046	−0.0083	+57 15 22.49	+13.093	+0.160	−0.232	9	3.78
2157	Bradley 2688	5.6	43 20.830	2.9720	0.0027	+0.0003	+ 5 40 37.53	13.108	0.322	+0.005	8	3.69
2158	η Cephei	3.6	43 27.644	1.2120	0.0114	+0.0133	+61 29 23.24	13.116	0.128	+0.820	12 23	3.57 3.60
2159	η Cephei s. p	3.6	43 27	1.2120	0.0114	+0.0133	+61 29 23.30	13.116	0.128	+0.820	-- 13	--- 3.80
2160*	Groomb. 3285	6.4	20 43 44.522	+1.7488	−0.0005	−0.0083	+52 40 2.10	+13.134	+0.187	−0.111	8	3.76
2161	λ Cygni	4.5	20 43 54.079	+2.3352	+0.0032	+0.0003	+36 9 33.90	+13.145	+0.251	−0.011	8 9	3.64 3.86
2162	Piazzi XX 305	5.8	43 57.122	3.5670	−0.0175	+0.0001	−26 6 50.40	13.148	0.387	−0.030	8	3.75
2163	Weisse $_2$ XX 1376	7.0	44 2.405	2.5528	+0.0023	.....	+27 15 49.39	13.154	0.275	.....	8	3.59
2164	B. D.+38° 4235	7.0	44 36	2.2590	+0.0032	.....	+38 57 18.79	13.191	0.242	.....	-- 4	--- 6.70
2165	Weisse $_1$ XX 1069	6.5	20 44 39.561	+3.0883	−0.0049	.....	− 0 53 47.47	+13.195	+0.333	.....	9	3.82
2166	Lal. 40191	7.1	20 45 42.275	+3.4702	−0.0146	.....	−21 38 47.46	+13.263	+0.374	.....	8	3.61
2167	Piazzi XX 325	6.0	45 44.208	3.3016	−0.0099	+0.0083	−12 52 44.18	13.266	0.355	−0.072	8	3.59
2168	Bradley 2702	5.1	46 53.068	2.1187	+0.0030	+0.0114	+43 43 12.12	13.341	0.225	+0.128	8	3.66
2169	Fedor. 3606	6.4	47 42.623	1.0602	−0.0163	.....	+63 42 22.42	13.394	0.109	_	8	3.59
2170	μ Aquarii	4.8	20 47 48.027	+3.2357	−0.0083	+0.0025	− 9 19 17.70	+13.400	+0.345	−0.035	8	3.53
2171	76 Draconis	5.7	20 49 9.509	−4.1433	−0.5437	+0.0163	+82 11 55.54	+13.489	−0.453	+0.026	49 49	4.62 4.58
2172	76 Draconis s. p	5.7	49 9.497	−4.1433	−0.5437	+0.0163	+82 11 55.39	13.489	−0.453	+0.026	34 43	3.83 4.20
2173	32 Vulpeculæ	5.2	50 43.350	+2.5564	+0.0027	−0.0007	+27 42 53.35	13.589	+0.268	−0.002	8	3.59
2174	Weisse $_2$ XX 1574	7.2	51 10.997	+2.3408	+0.0036	.....	+36 43 49.48	13.619	+0.244	.....	8	3.61
2175	Bradley 2708	5.4	20 51 20.947	+2.8395	−0.0004	+0.0009	+13 22 39.51	+13.630	+0.298	−0.019	8	3.54
2176	220 H^1. Draconis	5.6	20 51 41.800	−2.6018	−0.3198	−0.0101	+80 12 54.46	+13.652	−0.284	−0.030	8 18	3.61 3.62
2177	220 H^1. Draconis s. p	5.6	51 41.775	−2.6018	−0.3198	−0.0101	+80 12 54.49	13.652	−0.284	−0.030	8 18	3.57 4.76
2178	Piazzi XX 386	6.0	52 38.400	+3.3590	−0.0119	+0.0040	−16 22 42.44	13.712	+0.351	+0.003	8	3.52
2179	B. D.+3° 4466	6.9	53 18.247	+3.0071	−0.0033	.....	+ 3 50 52.72	13.754	+0.313	....	9	3.77
2180	ν Cygni	4.0	20 53 48.982	+2.2345	+0.0038	+0.0004	+40 49 12.63	+13.787	+0.231	−0.024	50 37	6.17 6.33
2181	Bradley 2719	5.6	20 54 14.859	+2.6817	+0.0017	0.0000	+21 58 38.74	+13.814	+0.277	−0.005	8	3.60
2182	γ Microscopii	4.7	55 46.386	3.6881	−0.0235	+0.0006	−32 36 36.54	13.911	0.381	+0.004	8	3.61
2183	Bradley 2735	5.2	58 2.313	2.0924	+0.0036	+0.0002	+45 48 7.09	14.053	0.211	+0.003	8	3.52
2184	η Capricorni	4.9	59 17.045	3.4215	−0.0143	−0.0030	−20 12 40.91	14.130	0.348	−0.043	8	3.58
2185	Groomb. 3375	6.7	20 59 28.268	+1.6297	−0.0021	.....	+56 42 59.35	+14.142	+0.162	.....	8	3.60
2186	Fedor. 3684	7.2	21 0 29.459	+0.7611	−0.0298	.....	+67 48 26.35	+14.205	+0.072	....	8	3.61
2187	θ Capricorni	4.2	0 53.377	3.3710	−0.0128	+0.0057	−17 35 27.82	14.230	0.340	−0.066	13	3.93
2188	ξ Cygni	3.9	1 39.323	2.1801	+0.0042	+0.0006	+43 34 6.29	14.277	0.217	−0.003	20 8	5.31 3.69
2189	Weisse $_1$ XX 1503	7.1	1 56.241	3.0801	−0.0048	.....	− 0 27 57.79	14.294	0.309	.....	8	3.64
2190	Weisse $_2$ XX 1856	6.2	21 2 28.518	+2.6052	+0.0030	.....	+26 33 48.87	+14.327	+0.260	.....	8	3.62
2191	Pulk. 55, 3078	5.9	21 2 43.587	+2.5154	+0.0037	−0.0008	+30 49 23.81	+14.342	+0.250	+0.003	8	3.69
2192	61 Cygni *pr*	5.6	2 53.328	2.3354	+0.0045	+0.3529	+38 18 35.07	14.350	0.232	+3.245	13 9	4.73 3.84
2193	61 Cygni *seq*	6.3	2 54.438	2.3356	+0.0045	+0.3509	+38 18 19.11	14.352	0.232	+3.079	9	3.82
2194*	Weisse$_1$ XX 1553	6.5	3 19.638	2.8178	+0.0004	+0.002	+15 17 50.18	14.379	0.280	−0.06	8	3.61
2195	χ Capricorni	5.3	21 3 24.393	+3.4402	−0.0153	+0.0014	−21 33 21.00	+14.384	+0.343	−0.057	8	3.60

2143. Comp., 8^m.1, 2″.9, n. f. 2153. Comp., 5^m.5, 11″, pr. 2161. Double, 5^m.0, 6^m.3, 0″.7.

[From observations in 1911–1918]

No.	Name	Magnitude	Right Ascension 1910.0	Annual Precession 1910.0	Secular Variation 1910.0	Annual Proper Motion	Declination 1910.0	Annual Precession 1910.0	Secular Variation 1910.0	Annual Proper Motion	Number of Observations	Mean Date
			h m s	s	s	s	° ′ ″	″	″	″		1910+
2196*	Lac. 8701	7.0	21 3 36.310	+3.5846	−0.0206	+0.0028	−28 50 18.98	+14.396	+0.358	−0.146	8	3.74
2197	Weisse$_1$ XX 1565	6.4	4 1.379	+2.9647	+0.0023	.....	+ 6 37 31.18	14.421	+0.294	.....	8	3.56
2198	ν Aquarii	4.5	4 41.564	+3.2648	−0.0097	+0.0063	−11 44 12.07	14.462	+0.323	−0.013	8	3.60
2199	Bradley 2777	5.9	7 18.931	−1.1427	−0.1779	+0.0083	+77 45 41.55	14.620	−0.120	+0.033	9	3.83
2200	Bradley 2777 s. P	5.9	21 7 18.876	−1.1427	−0.1779	+0.0083	+77 45 41.91	+14.620	−0.120	+0.033	9	3.59
2201	3 Piscis Australis	5.6	21 7 57.284	+3.5570	−0.0201	+0.0071	−27 59 13.63	+14.658	+0.348	−0.138	8	3.54
2202	ζ Cygni	3.4	9 6.254	2.5520	+0.0039	−0.0002	+29 51 26.10	14.726	+0.246	−0.059	141 114	4.73 4.78
2203	G Cephei	5.6	9 30.714	1.5291	−0.0041	−0.0005	+59 36 58.06	14.751	+0.145	+0.003	9 8	3.77 3.55
2204	Weisse$_1$ XXI 140	7.2	10 19.193	3.1661	−0.0071	.....	− 5 55 28.15	14.798	+0.305	.....	9	3.79
2205	τ Cygni	3.8	21 11 11.872	+2.3797	+0.0051	+0.0133	+37 39 40.42	+14.850	+0.227	+0.427	16 8	4.58 3.68
2206	α Equulei	4.1	21 11 19.486	+2.9960	−0.0028	+0.0038	+ 4 52 30.61	+14.857	+0.287	−0.087	12 11	3.84 3.94
2207*	Weisse$_2$ XXI 212	7.1	11 58.502	2.6544	+0.0031	−0.006	+25 3 33.76	14.896	0.253	−0.03	8	3.61
2208	4 Piscis Australis	4.8	12 29.014	3.6419	−0.0243	+0.0045	−32 32 56.72	14.925	0.348	−0.034	8	3.73
2209	Bradley 2765	5.4	12 54.522	3.3680	−0.0135	+0.0010	−18 21 45.72	14.950	0.321	−0.004	8	3.62
2210	σ Cygni	4.3	21 13 52.731	+2.3546	+0.0054	−0.0004	+39 1 1.24	+15.006	+0.221	−0.006	25 14	5.06 4.67
2211	Weisse$_1$ XXI 256	6.3	21 14 30.508	+2.9036	−0.0007	.....	+10 49 25.59	+15.043	+0.273	.....	10	3.73
2212	Bradley 2775	5.1	15 5.704	2.2348	+0.0055	−0.0014	+43 34 0.63	15.077	0.208	−0.023	8	3.65
2213	B. D.+37° 4271	5.8	15 46.754	2.3903	+0.0054	.....	+37 51 25.39	15.116	0.222	.....	9	3.84
2214	α Cephei	2.6	16 25.992	1.4130	−0.0073	+0.0217	+62 12 14.72	15.154	0.128	+0.049	41 50	6.05 5.65
2215	α Cephei s. P	2.6	21 16 26	+1.4130	−0.0073	+0.0217	+62 12 15.37	+15.154	+0.128	+0.049	-- 28	--- 3.46
2216	Groomb. 3434	6.8	21 16 47.010	+1.9271	+0.0035	.....	+52 40 36.34	+15.174	+0.177	.....	8	3.63
2217	ι Capricorni	4.3	17 14.217	+3.3425	−0.0129	+0.0022	−17 13 6.11	15.200	+0.311	+0.006	10 9	3.63 3.74
2218	Lal. 41508	6.9	17 30.500	+3.0123	−0.0030	.....	+ 3 57 43.68	15.215	+0.279	.....	9	3.38
2219	Groomb. 3548	7.4	17 37.99	−11.854	−3.391	+0.022	+86 39 57.43	15.223	−1.131	+0.013	7 8	3.41 3.69
2220	Groomb. 3548 s. P	7.4	21 17 37.85	−11.854	−3.391	+0.022	+86 39 57.45	+15.223	−1.131	+0.013	8	4.09
2221	1 Pegasi	4.2	21 17 55.404	+2.7664	+0.0020	+0.0072	+19 25 8.64	+15.239	+0.256	+0.058	9	3.72
2222	Bradley 2781	5.5	19 16.493	3.2758	−0.0107	+0.0059	−13 15 53.26	15.315	0.302	+0.003	8	3.64
2223	Bradley 2784	5.7	20 35.355	3.1316	−0.0062	−0.0017	− 3 56 35.82	15.389	0.286	−0.070	8	3.64
2224	ζ Capricorni	3.9	21 31.843	3.4308	−0.0166	0.0000	−22 48 5.90	15.442	0.312	+0.023	8	3.55
2225	69 Cygni	5.8	21 22 6.252	+2.4489	+0.0058	+0.0002	+36 16	+15.474	+0.220	−0.011	10 --	6.05 ---
2226	Weisse$_2$ XXI 466	6.1	21 22 15.746	+2.7805	+0.0020	.....	+18 59 6.69	+15.482	+0.251	.....	8	3.61
2227	b Capricorni	4.6	23 35.632	3.4165	−0.0162	+0.0095	−22 11 58.33	15.556	0.308	−0.008	9	3.88
2228	Bradley 2793	5.4	23 41.981	2.6393	+0.0042	+0.0026	+27 12 58.67	15.562	0.236	+0.022	9	3.55
2229	B. D.+7° 4696	6.7	23 58.608	2.9572	−0.0015	.....	+ 7 48 13.56	15.577	0.265	.....	8 9	3.68 3.45
2230	Piazzi XXI 145	6.5	21 24 56.615	+3.3695	−0.0145	+0.0017	−19 32 27.82	+15.630	+0.301	−0.034	9	3.73
2231	g Cygni	5.3	21 26 7.598	+2.2073	+0.0065	+0.0044	+46 8 36.54	+15.695	+0.194	+0.104	9 8	3.86 3.62
2232	Lal. 41886	7.2	26 21.698	2.4895	+0.0060	.....	+35 4 38.18	15.708	0.219	.....	9	3.89
2233	β Aquarii	3.1	26 49.300	3.1591	−0.0071	+0.0010	− 5 58 3.30	15.733	0.279	−0.007	86 81	4.87 4.90
2234	Piazzi XXI 161	6.4	27 22.316	3.4573	−0.0183	+0.0050	−24 59 17.30	15.763	0.305	−0.008	8	3.69
2235	β Cephei	3.3	21 27 30.130	+0.7852	−0.0353	+0.0022	+70 9 56.11	+15.770	+0.064	+0.005	8	3.57
2236	β Cephei s. P	3.3	21 27 30.085	+0.7852	−0.0353	+0.0022	+70 9 56.25	+15.770	+0.064	+0.005	8	3.67
2237	Weisse$_2$ XXI 672	6.4	30 27.185	2.7388	+0.0034	.....	+22 21 17.57	15.928	0.236	.....	8	3.57
2238	72 Cygni	5.0	31 5.908	2.4379	+0.0068	+0.0098	+38 7	15.962	0.208	+0.091	5 --	5.76 ---
2239	ϵ Capricorni	4.7	32 2.585	3.3631	−0.0148	+0.0006	−19 52 10.89	16.012	0.288	−0.002	8	3.60
2240	Weisse$_1$ XXI 712	7.2	21 32 44.226	+2.9123	0.0000	.....	+11 18 54.52	+16.048	+0.248	.....	8	3.59
2241	ξ Aquarii	4.8	21 32 57.708	+3.1886	−0.0081	+0.0075	− 8 15 29.92	+16.060	+0.271	−0.024	9 17	3.74 3.69
2242	Oeltzen 22542	7.0	32 58.662	2.1162	+0.0068	.....	+50 5 52.83	16.061	0.178	.....	8	3.62
2243	74 Cygni	5.1	33 20.370	2.4027	+0.0073	−0.0004	+40 0 31.93	16.080	0.202	+0.008	20 13	4.66 4.07
2244	B. D.+38° 4558	6.7	34 9	2.4314	+0.0072	+0.0013	+38 54 42.08	16.122	0.204	−0.004	-- 4	--- 6.74
2245	γ Capricorni	3.8	21 35 6.414	+3.3150	−0.0130	+0.0131	−17 4 10.04	+16.171	+0.279	−0.021	8	3.59
2246	Bradley 2830	4.9	21 35 30.248	+1.6108	−0.0015	+0.0007	+61 40 32.21	+16.192	+0.132	+0.002	10	3.71
2247	Bradley 2822	5.8	37 34.747	3.0606	−0.0039	−0.0003	+ 0 52 30.23	16.298	0.253	−0.014	9 8	3.77 3.66
2248	κ Capricorni	4.8	37 38.068	3.3445	−0.0144	+0.0100	−19 16 36.92	16.301	0.277	−0.007	8	3.55
2249	Groomb. 3550	7.0	37 53.043	1.7624	+0.0023	.....	+59 20 33.41	16.314	0.142	.....	8	3.66
2250	B. D.+45° 3637	6.5	21 38 41.824	+2.2901	+0.0082	.....	+45 21 18.44	+16.355	+0.186	.....	8	3.63

2203. Double, $6^m.0$, $7^m.0$, $1''.4$.

2205. Double, $3^m.8$, 7^m, $0''.8$.

[From observations in 1911–1918]

No.	Name	Magnitude	Right Ascension 1910.0	Annual Precession 1910.0	Secular Variation 1910.0	Annual Proper Motion	Declination 1910.0	Annual Precession 1910.0	Secular Variation 1910.0	Annual Proper Motion	Number of Observations	Mean Date
			h m s	s	s	s	° ′ ″	″	″	″		1910+
2251	Lal. 42352	6.7	21 39 12.030	+2.9763	−0.0014	------	+ 7 7 3.75	+16.380	+0.243	-----	8	3.69
2252	ι Piscis Australis	4.4	39 35.354	3.5800	−0.0259	+0.0029	−33 26 13.24	16.400	0.293	−0.086	9	3.85
2253	ϵ Pegasi	2.5	39 45.908	2.9446	−0.0005	+0.0017	+ 9 27 43.02	16.409	0.240	−0.001	109 78	4.60 4.81
2254	11 Cephei	4.8	40 36.449	0.8677	−0.0341	+0.0240	+70 53 49.41	16.451	0.065	+0.097	8	3.73
2255	11 Cephei s. P	4.8	21 40 36.371	+0.8677	−0.0341	+0.0240	+70 53 49.55	+16.451	+0.065	+0.097	8	3.55
2256	λ Capricorni	5.4	21 41 41.475	+3.2307	−0.0099	+0.0016	−11 46 53.10	+16.505	+0.260	−0.011	10	3.75
2257	Weisse$_1$ XXI 942	7.2	41 52.171	3.1073	−0.0054	------	− 2 37 44.88	16.514	0.250	-----	8	3.58
2258	Lal. 42470	6.6	41 55.469	2.5335	+0.0074	------	+35 26 30.50	16.517	0.202	-----	10	3.92
2259	δ Capricorni	3.0	42 4.558	3.2971	−0.0127	+0.0179	−16 32 10.80	16.524	0.265	−0.295	8	3.70
2260	Bradley 2849	5.5	21 42 40.123	+3.0427	−0.0032	+0.0009	+ 2 16 10.47	+16.554	+0.243	−0.003	10 10	3.66 3.87
2261	Bradley 2853	6.2	21 42 47.852	+2.8455	+0.0022	------	+16 46 39.70	+16.560	+0.227	-----	8	3.62
2262	ν Cephei	4.5	42 51.049	1.7306	+0.0019	−0.0003	+60 42 18.94	16.562	0.135	0.000	9	3.88
2263	π^2 Cygni	4.3	43 27.974	2.2131	+0.0087	+0.0004	+48 53 33.96	16.593	0.174	−0.003	8 17	3.65 3.64
2264	Lac. 8934	7.2	44 42.601	3.4651	−0.0207	+0.0013	−27 49 23.95	16.653	0.274	−0.031	7 8	3.91 4.02
2265	14 Pegasi	5.0	21 45 51.670	+2.6505	+0.0064	+0.0020	+29 45 16.97	+16.709	+0.206	−0.027	8	3.59
2266	Weisse$_2$ XXI 1080	6.5	21 46 0.298	+2.4375	+0.0087	------	+40 43 43.66	+16.716	+0.189	-----	8	3.63
2267*	Rad. 90, 5886	6.8	46 17.497	3.3955	−0.0175	+0.0229	−23 41 23.83	16.730	0.266	−0.098	9	3.77
2268	B. D.+38° 4618	8.0	46 43	2.4776	+0.0085	------	+39 1 16.99	16.751	0.191	-----	-- 4	--- 6.75
2269	μ Capricorni	5.2	48 23.484	3.2532	−0.0111	+0.0211	−13 58 33.08	16.830	0.250	+0.009	8	3.57
2270	γ Gruis	3.2	21 48 28	+3.6350	−0.0309	+0.0093	−37 47 18.99	+16.835	+0.280	−0.017	-- 80	--- 5.11
2271	16 Pegasi	5.0	21 48 57.909	+2.7276	+0.0054	+0.0001	+25 30 4.49	+16.858	+0.208	+0.001	8	3.64
2272	Groomb. 3600	7.0	49 20.023	2.0702	+0.0085	------	+54 15 32.23	16.875	0.156	-----	8	3.59
2273	B. D.+31° 4577	7.1	50 57.496	2.6283	+0.0074	------	+31 54 45.79	16.951	0.197	-----	8	3.67
2274	79 Draconis	6.6	51 44.016	0.7112	−0.0482	+0.0107	+73 16 35.06	16.988	0.048	+0.029	8 17	3.65 3.64
2275	79 Draconis s. P	6.6	21 51 43.972	+0.7112	−0.0482	+0.0107	+73 16 35.83	+16.988	+0.048	+0.029	6 8	3.28 3.78
2276	Weisse$_2$ XXI 1209	6.6	21 52 11.391	+2.8037	+0.0041	------	+20 48 42.50	+17.009	+0.209	-----	8	3.63
2277	Bradley 2869	5.6	52 32.975	+2.9271	+0.0008	−0.0020	+11 38 55.15	17.025	+0.218	−0.021	9	3.95
2278	Bradley 2894	6.8	53 12.817	−0.5826	−0.1848	+0.0041	+79 7 32.52	17.056	−0.052	+0.026	9	3.82
2279	Bradley 2894 s. P	6.8	53 12.722	−0.5826	−0.1848	+0.0041	+79 7 32.55	17.056	−0.052	+0.026	6 8	3.19 3.71
2280*	Weisse$_1$ XXI 1200	7.1	21 53 56.984	+3.0316	−0.0025	−0.0183	+ 3 21 1.06	+17.090	+0.224	−0.140	10 11	3.87 3.95
2281*	Lal. 42846	6.4	21 54 13.375	+3.1310	−0.0062	−0.0010	− 4 47 50.30	+17.102	+0.231	−0.251	8	3.64
2282	Groomb. 3637	6.3	54 53.005	1.5338	−0.0033	------	+65 43 35.71	17.132	0.109	-----	9	3.84
2283	20 Pegasi	5.7	56 42.205	2.9183	+0.0014	+0.0036	+12 41 18.33	17.214	0.211	−0.056	9	3.57
2284	Piazzi XXI 361	6.4	57 14.725	3.2986	−0.0137	+0.0075	−18 20 9.05	17.239	0.238	−0.063	8	3.62
2285	B. D.+38° 4656	7.1	21 57 19	+2.5242	+0.0097	------	+38 48 46.25	+17.242	+0.180	-----	-- 4	--- 6.75
2286	Weisse$_1$ XXI 1323	7.0	22 0 5.076	+2.9571	+0.0004	------	+ 9 48 14.42	+17.364	+0.208	-----	9	3.75
2287	Bradley 2887	5.2	0 9.680	3.0882	−0.0044	−0.0011	− 1 20 31.34	17.367	0.217	−0.042	8 7	3.64 3.36
2288	α Aquarii	3.2	1 9.699	3.0813	−0.0041	+0.0009	− 0 45 26.85	17.411	0.215	−0.006	110 85	4.39 4.55
2289	Bradley 2895	5.6	1 29.878	2.7134	+0.0072	+0.0024	+28 31 34.79	17.425	0.188	−0.017	8	3.61
2290	ι Aquarii	4.4	22 1 34.657	+3.2409	−0.0111	+0.0025	−14 18 24.42	+17.429	+0.226	−0.060	8 16	3.59 3.61
2291	Piazzi XXI 393	6.9	22 2 14.367	+3.3470	−0.0166	------	−22 40 49.06	+17.457	+0.232	-----	9 10	3.82 3.72
2292	20 Cephei	5.4	2 16.243	1.8192	+0.0060	+0.0016	+62 20 46.71	17.459	0.123	+0.064	8	3.65
2293	α Gruis	2.2	2 33	3.7850	−0.0454	+0.0116	−47 23 53.39	17.471	0.263	−0.162	-- 9	--- 4.44
2294	ι Pegasi	4.0	2 49.233	2.7689	+0.0061	+0.0220	+24 54 18.80	17.482	0.190	+0.018	8	3.60
2295	Weisse$_2$ XXI 1539	6.4	22 3 11.630	+2.8662	+0.0036	------	+17 33 42.12	+17.498	+0.196	-----	8 9	3.75 3.85
2296	Weisse$_2$ XXII 46	6.5	22 5 2.605	+2.4232	+0.0119	------	+45 17 59.34	+17.577	+0.162	-----	8	3.67
2297	θ Pegasi	3.7	5 39.620	3.0081	−0.0010	+0.0184	+ 5 45 17.50	17.602	0.202	+0.034	9 7	3.85 3.36
2298	Bradley 2909	5.4	5 48.850	3.2084	−0.0097	+0.0018	−12 0 28.68	17.609	0.216	+0.005	8	3.67
2299	π Pegasi	4.4	5 59.252	2.6625	+0.0090	−0.0010	+32 44 10.55	17.616	0.178	−0.023	25 8	5.19 3.29
2300	ξ Cephei	3.6	22 7 43.765	+2.0756	+0.0116	+0.0013	+57 45 26.77	+17.688	+0.135	+0.007	33 32	5.30 5.38
2301	ξ Cephei s. P	3.6	22 7 43	+2.0756	+0.0116	+0.0013	+57 45 26.42	+17.688	+0.135	+0.007	-- 20	--- 5.26
2302	Lac. 9058	6.2	7 53.299	3.3893	−0.0197	------	−26 46 19.79	17.695	0.225	-----	8 9	3.73 3.84
2303	24 Cephei	5.0	8 4.751	1.1544	−0.0228	+0.0061	+71 53 52.03	17.703	0.071	+0.004	8 17	3.46 3.61
2304	24 Cephei s. P	5.0	8 4.700	1.1544	−0.0228	+0.0061	+71 53 51.82	17.703	0.071	+0.004	8	3.62
2305	Lal. 43363	6.6	22 9 45.890	+3.2528	−0.0122	−0.0017	−16 15 24.84	+17.771	+0.212	−0.313	8	3.63

[From observations in 1911–1918]

No.	Name	Magnitude	Right Ascension 1910.0	Annual Precession 1910.0	Secular Variation 1910.0	Annual Proper Motion	Declination 1910.0	Annual Precession 1910.0	Secular Variation 1910.0	Annual Proper Motion	Number of Observations	Mean Date
			h m s	s	s	s	° ′ ″	″	″	″		1910+
2306	1 H. Lacertæ	4.6	22 10 0.783	+2.5681	+0.0113	+0.0042	+39 16	+17.782	+0.165	+0.005	10 ..	6.52 ...
2307	Lal. 43396	7.1	10 14.109	3.0312	−0.0017	.....	+ 3 50 5.85	17.790	0.196	.....	8	3.68
2308	Weisse 2 XXII 186	6.7	10 34.133	2.8234	+0.0057	.....	+22 4 35.33	17.804	0.182	.....	8	3.61
2309	Groomb. 3725	5.7	10 57.371	2.5115	+0.0123	+0.0049	+42 30 25.77	17.820	0.160	−0.022	8	3.67
2310	θ Aquarii	4.3	22 12 5.150	+3.1602	−0.0075	+0.0074	− 8 13 54.64	+17.865	+0.201	−0.019	8	3.75
2311	Bradley 2931	5.8	22 12 24.609	+3.1343	−0.0062	−0.0003	− 5 50 12.92	+17.877	+0.199	+0.020	8	3.66
2312*	Weisse 1 XXII 196	6.9	12 45.383	2.9395	+0.0021	+0.0578	+12 26 47.91	17.891	0.186	+0.102	5	3.49
2313	Piazzi XXII 65	6.1	14 59.287	2.6220	+0.0113	+0.0058	+37 19 0.90	17.978	0.161	+0.061	8	3.70
2314	Bradley 2947	6.0	15 16.384	1.9469	+0.0109	+0.0065	+62 21 11.03	17.989	0.118	+0.023	8	3.73
2315	47 Aquarii	5.4	22 16 38.448	+3.3085	−0.0159	−0.0014	−22 2 59.10	+18.042	+0.203	−0.087	8	3.67
2316	Groomb. 3746	6.5	22 16 47.836	+2.1949	+0.0145	.....	+56 27 54.47	+18.048	+0.132	.....	8	3.58
2317	Weisse 2 XXII 326	7.6	16 56.078	2.7254	+0.0093	.....	+30 51 25.34	18.053	0.165	.....	8	3.68
2318	γ Aquarii	4.0	17 0.510	3.0912	−0.0041	+0.0082	− 1 50 28.24	18.056	0.188	+0.009	59 38	4.46 4.40
2319	31 Pegasi	4.9	17 5.196	2.9518	+0.0020	+0.0003	+11 45 5.11	18.059	0.179	+0.005	9	3.92
2320	Bradley 2949	5.9	22 19 37.864	+3.2137	−0.0105	+0.0032	−13 59 9.21	+18.154	+0.191	+0.016	10 11	3.67 3.76
2321	3 Lacertæ	4.6	22 20 1.041	+2.3555	+0.0155	−0.0016	+51 46 39.56	+18.169	+0.137	−0.190	10	3.91
2322	32 H. Cephei	5.4	20 35.95	−4.320	−1.360	+0.051	+85 39 20.13	18.190	−0.272	+0.049	7 9	3.64 3.89
2323	32 H. Cephei s. P	5.4	20 35.85	−4.320	−1.360	+0.051	+85 39 19.80	18.190	−0.272	+0.049	8	4.14
2324	π Aquarii	4.6	20 40.809	+3.0635	−0.0026	+0.0007	+ 0 55 13.39	18.193	+0.180	+0.003	8	3.65
2325	Piazzi XXII 91	6.2	22 21 12.170	+3.3228	−0.0173	+0.0001	−24 8 24.35	+18.212	+0.195	+0.004	9	3.83
2326	Weisse 2 XXII 408	6.4	22 21 20.020	+2.8915	+0.0048	.....	+17 59 10.48	+18.217	+0.168	.....	8	3.70
2327	Groomb. 3767	6.9	21 27.133	2.3895	+0.0157	.....	+50 47 53.45	18.221	0.138	.....	8	3.66
2328	Bradley 2962	5.8	24 38.450	2.9902	+0.0010	+0.0037	+ 8 40 9.16	18.336	0.169	−0.028	8	3.60
2329	Oeltzen 22181	6.0	24 44.082	3.3543	−0.0199	.....	−27 34 4.31	18.339	0.190	.....	8	3.62
2330	Piazzi XXII 120	6.0	22 24 57.070	+2.8064	+0.0083	+0.0018	+26 18 9.86	+18.347	+0.157	−0.018	9	3.75
2331	δ Cephei	var.	22 25 49.555	+2.2198	+0.0169	+0.0015	+57 57 15.34	+18.377	+0.122	+0.003	9	3.79
2332	σ Aquarii	4.9	25 53.091	3.1776	−0.0087	0.0000	−11 8 20.08	18.379	0.177	−0.030	8	3.61
2333	38 Pegasi	5.5	25 54.656	2.7378	+0.0107	+0.0025	+32 6	18.380	0.152	−0.016	11 ..	6.56 ...
2334	β Piscis Australis	4.4	26 23.517	3.4147	−0.0246	+0.0046	−32 48 27.74	18.397	0.190	−0.018	10	3.71
2335	Weisse 1 XXII 494	6.3	22 26 39.231	+3.1037	−0.0045	−0.0051	− 3 22 21.37	+18.406	+0.171	−0.004	8	3.66
2336	Bradley 2967	6.4	22 26 55.074	+3.1787	−0.0088	+0.0041	−11 22 1.60	+18.415	+0.175	−0.041	8	3.77
2337	B. D.+38° 4787	8.7	27 17	2.6499	+0.0133	.....	+38 46 57.23	18.428	0.144	.....	.. 4	... 6.79
2338	α Lacertæ	3.8	27 34.889	2.4515	+0.0168	+0.0145	+49 49 10.55	18.438	0.132	+0.013	22	6.08
2339	Groomb. 3804	5.8	28 27.495	2.6469	+0.0137	+0.0015	+39 18 59.59	18.468	0.142	−0.009	9	3.45
2340	υ Aquarii	5.3	22 29 46.392	+3.2711	−0.0149	+0.0155	−21 10 11.03	+18.512	+0.175	−0.148	9 17	3.85 3.75
2341	226 B. Cephei	5.7	22 30 41.534	+1.0717	−0.0348	−0.0043	+75 45 45.19	+18.543	+0.051	−0.001	9	3.71
2342	226 B. Cephei s. P	5.7	30 41.586	1.0717	−0.0348	−0.0043	+75 45 44.73	18.543	0.051	−0.001	6 8	3.22 3.73
2343	η Aquarii	4.1	30 43.910	3.0777	−0.0030	+0.0060	− 0 34 54.34	18.544	0.162	−0.054	8 7	3.66 3.80
2344	Bradley 2978	6.8	30 58.138	3.2363	−0.0127	−0.0027	−17 55 30.91	18.552	0.171	−0.041	8	3.62
2345	Groomb. 3829	6.2	22 32 8.879	+2.4851	+0.0177	+0.0013	+49 36 16.10	+18.591	+0.128	+0.009	8	3.68
2346	κ Aquarii	5.3	22 33 5.704	+3.1131	−0.0050	−0.0052	− 4 41 33.81	+18.622	+0.160	−0.115	9	3.83
2347	Weisse 2 XXII 692	6.9	33 15.939	2.8575	+0.0079	.....	+23 32 3.25	18.627	0.146	.....	9	3.55
2348	31 Cephei	5.2	33 32.805	1.4445	−0.0074	+0.0392	+73 10 33.22	18.636	0.070	+0.021	9	3.81
2349	31 Cephei s. P	5.2	33 32.820	1.4445	−0.0074	+0.0392	+73 10 33.26	18.636	0.070	+0.021	8	3.58
2350	Weisse 1 XXII 641	6.4	22 33 38.892	+3.1448	−0.0069	+0.0010	− 8 21 55.66	+18.640	+0.161	+0.012	10 9	3.75 3.86
2351	10 Lacertæ	4.9	22 35 13.171	+2.6871	+0.0143	0.0000	+38 34 53.74	+18.690	+0.134	−0.009	32 9	5.59 3.90
2352	ε Piscis Australis	4.2	35 40.835	3.3229	−0.0195	+0.0018	−27 30 47.55	18.704	0.166	−0.002	8 7	3.76 3.89
2353	Piazzi XXII 186 *m*	5.8	36 25.033	2.9530	+0.0040	+0.0185	+14 4 33.54	18.728	0.146	+0.134	8	3.63
2354	ζ Pegasi	3.6	36 58.352	2.9859	+0.0024	+0.0052	+10 21 40.51	18.745	0.146	−0.012	75 34	4.05 3.91
2355	β Gruis	2.2	22 37 18	+3.5848	−0.0431	+0.0125	−47 21 23.43	+18.755	+0.176	−0.021	.. 12	... 4.38
2356	Lal. 44403	6.5	22 37 18.915	+2.7947	+0.0112	.....	+30 29 42.98	+18.756	+0.136	.....	8	3.62
2357	Weisse 1 XXII 760	7.3	38 19.544	3.0359	−0.0002	.....	+ 4 29 49.36	18.787	0.146	.....	8	3.65
2358	η Pegasi	3.1	38 46.838	2.8075	+0.0110	+0.0008	+29 45 0.96	18.800	0.134	−0.035	113 73	4.68 4.52
2359	13 Lacertæ	5.2	40 4.451	2.6707	+0.0161	−0.0008	+41 20 47.91	18.839	0.125	+0.006	9	3.80
2360	B. D.+38° 4858	6.6	22 40 48	+2.7095	+0.0151	.....	+38 43 42.75	+18.861	+0.126	.....	.. 5	... 6.80

2313. Comp., $8^m.5$, 15″, s. pr. 2331. Var., $3^m.7$–$4^m.6$. 2353. Double, $6^m.8$, $6^m.8$, 0″.3

[From observations in 1911–1918]

No.	Name	Magnitude	Right Ascension 1910.0	Annual Precession 1910.0	Secular Variation 1910.0	Annual Proper Motion	Declination 1910.0	Annual Precession 1910.0	Secular Variation 1910.0	Annual Proper Motion	Number of Observations	Mean Date
			h m s	s	s	s	° ′ ″	″	″	″		1910+
2361	Bradley 3006	6.4	22 41 5.359	+2.9182	+0.0064	−0.0024	+18 53 30.63	+18.870	+0.135	+0.049	8	3.73
2362	Weisse$_1$ XXII 821	6.8	41 56.624	3.0169	+0.0012	.....	+ 7 6 32.17	18.895	0.139	.....	8	3.67
2363	λ Pegasi	4.1	42 11.636	2.8828	+0.0084	+0.0042	+23 5 30.12	18.902	0.132	−0.014	8 15	3.25 3.44
2364	Bradley 3007	5.4	42 43.145	3.2342	−0.0136	−0.0080	−20 4 59.79	18.917	0.148	−0.208	8	3.64
2365	Weisse$_1$ XXII 839	7.6	22 42 51.708	+3.0900	−0.0033	.....	− 2 15 47.72	+18.921	+0.141	.....	8	3.71
2366	Bradley 3009	5.7	22 42 56.115	+3.1868	−0.0101	+0.0024	−14 31 51.94	+18.923	+0.145	−0.013	8	3.26
2367	Lac. 9256	6.5	42 59.961	3.2911	−0.0183	.....	−26 23 3.71	18.925	0.150	.....	11	4.02
2368	τ Aquarii	4.2	44 49.641	3.1804	−0.0097	−0.0011	−14 4 4.66	18.977	0.141	−0.036	9 8	3.90 4.18
2369	μ Pegasi	3.7	45 39.474	2.8818	+0.0091	+0.0107	+24 7 33.68	19.001	0.126	−0.045	27 26	5.96 6.08
2370	ι Cephei	3.7	22 46 28.335	+2.1380	+0.0230	−0.0110	+65 43 36.46	+19.023	+0.090	−0.121	10	3.58
2371	Weisse$_2$ XXII 1040	6.7	22 47 7.922	+2.8696	+0.0100	.....	+25 54 48.40	+19.041	+0.123	.....	9	3.54
2372	γ Piscis Australis	4.5	47 31.488	+3.3461	−0.0241	−0.0024	−33 21 10.88	19.052	+0.144	−0.032	8	3.25
2373	σ Pegasi	5.3	47 50.449	+3.0043	+0.0025	+0.0347	+ 9 21 23.65	19.061	+0.128	+0.043	8	3.65
2374	Bradley 3038	5.0	47 51.441	−0.1468	−0.2426	+0.0177	+82 40 35.12	19.061	−0.015	+0.054	8	3.32
2375	Bradley 3038 S. P	5.0	22 47 51.509	−0.1468	−0.2426	+0.0177	+82 40 34.66	+19.061	−0.015	+0.054	8	3.50
2376	λ Aquarii	3.8	22 47 55.180	+3.1311	−0.0062	+0.0003	− 8 3 31.31	+19.063	+0.133	+0.036	8	3.60
2377	Rad. 45, 5878	6.9	49 31.438	2.0955	+0.0235	.....	+67 30 36.85	19.106	0.084	.....	8	3.23
2378	δ Aquarii	3.5	49 52.498	3.1902	−0.0109	−0.0033	−16 17 58.97	19.115	0.132	−0.021	8 16	3.67 3.66
2379	Bradley 3026	5.7	49 59.743	3.1935	−0.0112	−0.0152	−16 44 58.23	19.118	0.132	−0.081	9 10	3.84 3.92
2380	Weisse$_2$ XXII 1121	6.0	22 50 51.338	+2.7776	+0.0154	.....	+36 35 48.48	+19.141	+0.112	.....	9	3.92
2381	B. D.+11° 4904	6.5	22 52 21.426	+2.9944	+0.0037	.....	+11 22 3.29	+19.179	+0.119	.....	9	3.83
2382	Oeltzen 24899	7.1	52 24.762	2.4973	+0.0250	.....	+55 58 11.09	19.181	0.098	.....	9 8	3.21 3.27
2383	α Piscis Australis	1.3	52 40.974	3.2968	−0.0208	+0.0250	−30 5 59.12	19.187	0.131	−0.166	24	6.17
2384	B. D.+3° 4799	6.4	52 57.812	3.0501	−0.0001	.....	+ 3 19 41.36	19.195	0.120	.....	8 9	3.24 3.31
2385	Bradley 3035	5.6	22 53 2.568	+2.9303	+0.0079	+0.0145	+20 17 9.79	+19.197	+0.115	+0.051	8	3.28
2386	B. D.+38° 4904	6.1	22 53 31	+2.7649	+0.0168	.....	+38 49 38.32	+19.209	+0.107	.....	-- 4	--- 6.81
2387	36 H. Cephei	5.0	55 9.608	−0.3980	−0.3360	+0.063	+83 51 52.87	19.249	−0.024	+0.030	8	3.31
2388	36 H. Cephei S. P	5.0	55 9.502	−0.3980	−0.3360	+0.063	+83 51 52.83	19.249	−0.024	+0.030	10	3.64
2389	Groomb. 3940	6.4	55 16.168	+2.5929	+0.0240	.....	+52 10 16.80	19.252	+0.097	.....	9	3.43
2390	Bradley 3039	6.4	22 56 0.962	+3.0744	−0.0017	+0.0024	− 0 17 51.36	+19.270	+0.115	+0.013	8	3.73
2391	Bradley 3040	6.4	22 56 42.999	+3.1208	−0.0055	−0.0017	− 7 32 40.86	+19.287	+0.116	−0.010	8	3.64
2392	ο Andromedæ	3.6	57 46.584	2.7516	+0.0190	+0.0021	+41 50 31.66	19.312	0.099	−0.021	27 8	5.28 3.67
2393*	Lal. 45049	6.2	57 55.986	3.2123	−0.0138	−0.0054	−21 21 6.92	19.315	0.117	−0.151	8	3.65
2394	Groomb. 3968	7.0	59 2.727	2.3874	+0.0300	.....	+62 51 22.80	19.341	0.083	.....	8	3.73
2395	β Pegasi	var.	22 59 24.558	+2.8900	+0.0119	+0.0144	+27 35 40.48	+19.349	+0.102	+0.133	9	3.92
2396	α Pegasi	2.6	23 0 16.583	+2.9821	+0.0058	+0.0040	+14 43 14.60	+19.369	+0.104	−0.045	129 79	4.59 5.06
2397	Bradley 3048, *mean*	5.6	0 28.245	3.1219	−0.0057	+0.0082	− 8 10 47.36	19.373	0.109	+0.017	8	3.76
2398	55 Pegasi	4.7	2 28.154	3.0204	+0.0031	+0.0005	+ 8 55 23.09	19.418	0.101	−0.014	8	3.73
2399	Weisse$_2$ XXII 1376	6.5	2 48.272	2.8401	+0.0161	.....	+35 8 58.06	19.425	0.094	.....	8	3.63
2400	Weisse$_2$ XXII 1377	6.7	23 2 59.495	+2.9522	+0.0086	.....	+20 5 43.73	+19.429	+0.098	.....	8	3.66
2401	Weisse$_2$ XXII 1387	7.2	23 3 19.824	+2.8870	+0.0133	.....	+29 34 3.22	+19.436	+0.095	.....	8	3.68
2402	Bradley 3063	5.6	3 32.100	2.7362	+0.0223	−0.0005	+45 54 3.23	19.441	0.089	−0.030	9	3.29
2403	Bradley 3059	5.6	4 4.329	3.0633	−0.0004	+0.0091	+ 1 38 15.84	19.452	0.100	+0.110	8	3.29
2404	c^2 Aquarii	3.8	4 38.989	3.1995	−0.0137	+0.0033	−21 39 40.30	19.464	0.103	+0.037	9 8	3.96 3.76
2405	Lac. 9383	6.1	23 4 53.061	+3.2459	−0.0188	.....	−28 34 36.24	+19.469	+0.104	.....	9	3.62
2406	Bradley 3068	5.4	23 4 58.818	+3.0268	+0.0029	+0.0002	+ 8 11 21.02	+19.471	+0.097	+0.002	8	3.32
2407	π Cephei	4.6	5 1.876	1.8959	+0.0245	+0.0030	+74 54 3.03	19.472	0.057	−0.025	8	3.72
2408	π Cephei S. P	4.6	5 1.791	1.8959	+0.0245	+0.0030	+74 54 2.98	19.472	0.057	−0.025	8	3.77
2409	Bradley 3070	5.8	6 17.375	2.7825	+0.0211	−0.0183	+43 3 37.45	19.498	0.086	−0.188	9	3.44
2410	59 Pegasi	5.2	23 7 11.479	+3.0284	+0.0031	−0.0011	+ 8 13 52.22	+19.516	+0.092	−0.006	8	3.24
2411	5 H^1. Cassiop	5.6	23 8 57.524	+2.6236	+0.0306	+0.2526	+56 40 18.13	+19.551	+0.076	+0.296	9	3.84
2412	φ Aquarii	4.4	9 39.681	3.1059	−0.0043	+0.0018	− 6 32 4.47	19.564	0.090	−0.191	10 9	4.03 3.85
2413	290 Aquarii	6.4	9 58.741	3.1297	−0.0069	.....	−11 10 41.59	19.570	0.091	.....	10	3.89
2414	Pulk. 55, 3405	5.6	10 56.045	3.0923	−0.0029	−0.0012	− 3 59 14.00	19.588	0.087	0.000	8	3.24
2415	Lal. 45531	6.7	23 10 57.947	+2.9391	+0.0117	.....	+25 10 52.02	+19.589	+0.083	.....	8	3.72

2381. Comp., 9m, 4″, n. f. 2395. Var., irreg., 2m.2–2m.7. 2397. Double, 6m.4, 6m.4, 0″.2, rapid binary. 2407. Double, 4m.6, 7m, 0″.9.

[From observations in 1911–1918]

No.	Name	Magnitude	Right Ascension 1910.0	Annual Precession 1910.0	Secular Variation 1910.0	Annual Proper Motion	Declination 1910.0	Annual Precession 1910.0	Secular Variation 1910.0	Annual Proper Motion	Number of Observations	Mean Date
			h m s	s	s	s	° ′ ″	″	″	″		1910+
2416	ψ Aquarii	4.5	23 11 10.685	+3.1202	−0.0059	+0.0248	− 9 34 41.80	+19.593	+0.088	−0.013	8	3.26
2417	γ Piscium	3.8	12 30.143	3.0591	+0.0007	+0.0502	+ 2 47 25.41	19.617	0.083	+0.019	104 81	3.97 4.02
2418	γ Sculptoris	4.5	13 57.981	3.2458	−0.0219	+0.0020	−33 1 20.92	19.643	0.086	−0.066	10	3.44
2419	Cape 80, 12100	6.8	14 14.152	3.2187	−0.0184	------	−28 52 49.72	19.648	0.085	-----	9	3.42
2420	Lal. 45647	6.1	23 14 39.987	+3.1607	−0.0111	------	−18 34 5.26	+19.655	+0.082	-----	8 9	3.75 3.85
2421	o Cephei	4.9	23 14 55.382	+2.4383	+0.0414	+0.0111	+67 37 8.61	+19.659	+0.061	+0.017	9	3.51
2422	o Cephei s. p	4.9	14 55.353	2.4383	0.0414	+0.0111	+67 37 8.50	19.659	0.061	+0.017	6 8	3.35 3.84
2423	B. D.+38° 4980	8.2	15 25	2.8649	0.0199	------	+38 47 48.77	19.668	0.072	-----	-- 5	--- 6.82
2424	Bradley 3092	5.2	15 45.396	3.0506	0.0019	+0.0052	+ 4 53 23.63	19.674	0.077	−0.063	8	3.64
2425	τ Pegasi	4.6	23 16 10.796	+2.9634	+0.0112	+0.0020	+23 14 51.26	+19.681	+0.074	−0.021	8	3.29
2426	Bradley 3099	5.8	23 16 32.417	+2.8779	+0.0193	+0.0097	+37 41 26.88	+19.687	+0.071	−0.078	9 8	3.42 3.24
2427	b^1 Aquarii	4.2	18 14.663	3.1635	−0.0122	−0.0087	−20 35 31.66	19.714	0.075	−0.093	9	3.23
2428	Bradley 3110	5.9	18 31.261	2.6619	+0.0365	+0.0001	+59 38 23.78	19.719	0.062	−0.003	8	3.30
2429	Bradley 3108	5.3	18 32.127	3.0222	+0.0055	+0.0016	+11 49 13.27	19.719	0.071	−0.019	8	3.26
2430	Bradley 3111	5.5	23 20 26.278	+2.9297	+0.0163	+0.0004	+31 53 25.25	+19.748	+0.065	−0.001	18 9	4.94 3.73
2431	4 Cassiop	5.2	23 20 50.039	+2.6489	+0.0396	+0.0017	+61 47 18.97	+19.754	+0.057	−0.008	9	3.42
2432	υ Pegasi	4.6	20 53.131	2.9766	+0.0114	+0.0137	+22 54 30.72	19.755	0.065	+0.028	9	3.15
2433	Bradley 3113	4.5	21 19.189	3.1593	−0.0124	−0.0043	−21 8 7.41	19.761	0.069	−0.058	8	3.29
2434	κ Piscium	4.9	22 19.079	3.0696	+0.0002	+0.0057	+ 0 45 45.65	19.776	0.065	−0.090	8	3.23
2435	θ Piscium	4.4	23 23 24.080	+3.0506	+0.0028	−0.0088	+ 5 53 3.90	+19.791	+0.062	−0.043	8	3.27
2436	Weisse$_1$ XXIII 402	6.5	23 23 24.220	+3.1175	−0.0066	+0.0079	−11 56 41.86	+19.791	+0.064	+0.028	8	3.73
2437	Lac. 9489	6.9	23 40.194	3.1750	−0 0155	------	−25 54 57.10	19.795	0.065	-----	9 10	3.61 3.71
2438	Weisse$_1$ XXIII 434	7.0	24 30.451	3.0153	+0.0078	------	+15 30 59.63	19.806	0.059	-----	8 7	3.24 3.01
2439	70 Pegasi	4.7	24 36.095	3.0278	+0.0061	+0.0038	+12 15 50.33	19.807	0.060	+0.027	8	3.32
2440	Bradley 3124	7.1	23 24 53.357	+3.0780	−0.0009	−0.0015	− 1 31 52.22	+19.811	+0.060	−0.017	9	3.87
2441	B. D.+38° 5023	5.3	23 26 51	+2.9180	+0.0214	+0.0241	+38 44 29.48	+19.837	+0.053	−0.082	-- 5	--- 6.82
2442	Weisse$_2$ XXIII 516	6.7	27 2.009	+2.9699	+0.0148	------	+28 10 11.41	19.839	+0.054	-----	8	3.26
2443	Weisse$_1$ XXIII 524	6.8	27 38.039	+3.0508	+0.0034	------	+ 6 35 21.30	19.846	+0.054	-----	8	3.34
2444	39 H. Cephei	5.6	27 47.45	−0.290	−0.629	+0.097	+86 48 39.65	19.848	−0.014	+0.018	52 52	4.76 4.62
2445	39 H. Cephei s. p	5.6	23 27 47.20	−0.290	−0.629	+0.097	+86 48 39.73	+19.848	−0.014	+0.018	41 46	4.18 4.35
2446	β Sculptoris	4.5	23 28 8	+3.2188	−0.0256	+0.0077	−38 18 58.24	+19.853	+0.057	+0.011	-- 4	--- 7.78
2447	Groomb. 4089	7.1	28 13.213	2.2513	+0.0616	------	+77 19 21.22	19.854	0.037	-----	9	3.45
2448	Groomb. 4089 s. p	7.1	28 13.112	2.2513	+0.0616	------	+77 19 21.15	19.854	0.037	-----	10	3.72
2449	Groomb. 4087	7.0	28 19.129	2.8265	+0.0334	------	+53 11 22.56	19.855	0.048	-----	10	3.66
2450	Bradley 3132	5.5	23 28 57.522	+2.9996	+0.0115	−0.0006	+22 0 7.02	+19.862	+0.051	−0.035	8	3.29
2451	72 Pegasi *mean*	5.2	23 29 29.084	+2.9666	+0.0166	+0.0040	+30 49 42.22	+19.869	+0.049	−0.012	22 12	4.44 3.75
2452	15 Andromedæ	5.5	30 13.098	2.9286	0.0226	−0.0011	+39 44 ----	19.877	0.047	−0.040	5 --	6.85 ---
2453	Weisse$_1$ XXIII 568	7.7	30 37.427	3.0357	0.0065	------	+12 9 56.03	19.882	0.048	-----	8	3.29
2454	Groomb. 4099	7.4	31 5.849	2.6767	0.0522	------	+66 59 38.59	19.887	0.041	-----	8	3.64
2455	Bradley 3139	5.6	23 31 47.650	+3.0679	+0.0011	−0.0075	+ 1 36 9.72	+19.894	+0.046	+0.058	8	3.65
2456	Groomb. 4105	5.9	23 33 7.805	+2.9219	+0.0262	------	+43 55 52.27	+19.908	+0.041	-----	8	3.75
2457	λ Andromedæ	4.0	33 9.304	2.9109	+0.0279	+0.0149	+45 58 12.26	19.909	0.041	−0.421	18 8	4.77 3.65
2458*	Piazzi XXIII 137	6.7	33 22.363	3.1157	−0.0082	+0.0049	−15 35 27.38	19.911	0.044	−0.108	9	3.80
2459	ι Andromedæ	4.3	33 43.076	2.9311	+0.0254	+0.0024	+42 46 11.15	19.914	0.040	−0.003	21 7	5.28 3.90
2460	Bradley 3146	5.3	23 34 46.310	+2.8977	+0.0318	−0.0013	+49 58 23.55	+19.925	+0.038	−0.009	9 8	3.91 4.05
2461	ι Piscium	4.3	23 35 19.300	+3.0596	+0.0031	+0.0248	+ 5 8 16.23	+19.930	+0.040	−0.439	73 66	4.21 4.21
2462	Groomb. 4120	6.1	35 25.321	2.5895	0.0694	------	+73 30 14.32	19.931	0.032	-----	10 9	3.31 3.48
2463	Groomb. 4120 s. p	6.1	35 25.295	2.5895	+0.0694	------	+73 30 13.90	19.931	0.032	-----	8	4.20
2464	γ Cephei	3.4	35 38.373	2.4522	+0.0782	−0.0180	+77 7 48.80	19.933	0.030	+0.158	20	5.89
2465	γ Cephei s. p	3.4	23 35 38.483	+2.4522	+0.0782	−0.0180	+77 7 48.50	+19.933	+0.030	+0.158	8 18	3.64 5.80
2466	κ Andromedæ	4.3	23 35 58.241	+2.9382	+0.0266	+0.0073	+43 50 7.89	+19.936	+0.036	−0.024	14 8	5.03 3.76
2467	Weisse$_1$ XXIII 684	7.1	36 10.031	3.0930	−0.0039	------	− 8 24 43.90	19.938	0.038	-----	8	3.67
2468*	Weisse$_2$ XXIII 734	6.3	36 10.625	2.9710	+0.0209	+0.0188	+36 13 16.84	19.938	0.036	+0.027	8	3.77
2469	ω^2 Aquarii	4.6	38 3.359	3.1068	−0.0076	+0.0060	−15 2 33.96	19.954	0.035	−0.060	8	3.68
2470	i^1 Aquarii	5.3	23 39 32.054	+3.1130	−0.0097	+0.0020	−18 46 35.55	+19.966	+0.032	0.000	10 10	3.60 3.93

2421. Comp., 8m, 2″.9, s. pr

2451. Double, 6m.0, 6m.0, 0″.4.

[From observations in 1911–1918]

No.	Name	Magnitude	Right Ascension 1910.0	Annual Precession 1910.0	Secular Variation 1910.0	Annual Proper Motion	Declination 1910.0	Annual Precession 1910.0	Secular Variation 1910.0	Annual Proper Motion	Number of Observations	Mean Date
			h m s	s	s	s	° ′ ″	″	″	″		1910+
2471	ψ Andromedæ	5.1	23 41 34.146	+2.9617	+0.0294	+0.0012	+45 55 14.19	+19.981	+0.026	−0.018	30 9	5.25 3.40
2472	Bradley 3165	5.6	43 18.935	3.0781	−0.0008	+0.0063	− 3 15 42.92	19.993	0.024	+0.006	8	3.24
2473	41 H. Cephei	5.0	43 35.887	2.8440	+0.0617	+0.0019	+67 18 24.01	19.995	0.023	+0.002	8	3.27
2474	41 H. Cephei S. P	5.0	43 35.954	2.8440	+0.0617	+0.0019	+67 18 24.63	19.995	0.023	+0.002	8	4.24
2475	δ Sculptoris	4.6	23 44 14.389	+3.1226	−0.0158	+0.0080	−28 37 41.30	+19.998	+0.023	−0.101	9 8	3.10 3.28
2476	Lac. 9605	7.0	23 44 39.711	+3.1207	−0.0156	------	−28 21 12.40	+20.001	+0.022	-----	12 10	3.72 3.92
2477	Piazzi XXIII 194	7.1	44 46.608	3.1086	−0.0114	------	−22 6 52.86	20.002	0.022	-----	8	3.32
2478	Bradley 3171	5.9	45 5.915	3.0257	+0.0166	+0.0054	+28 20 28.91	20.004	0.020	+0.019	8	3.76
2479	Piazzi XXIII 200	6.1	45 36.121	3.0880	−0.0045	+0.0086	−10 28 35.78	20.006	0.020	+0.096	9 10	3.54 3.68
2480	B. D.+63° 2064	6.8	23 46 34.720	+2.9158	+0.0548	------	+63 29 3.83	+20.012	+0.016	-----	8	3.64
2481	Bradley 3173	6.1	23 46 45.542	+3.0606	+0.0057	−0.0017	+ 8 48 51.58	+20.013	+0.017	−0.058	9	3.80
2482	Bradley 3174	5.8	47 21.325	3.0694	+0.0024	+0.0010	+ 2 25 48.21	20.015	0.016	−0.013	8	3.24
2483	φ Pegasi	5.2	47 54.414	3.0488	+0.0111	−0.0011	+18 37 13.27	20.018	0.015	−0.044	9	3.27
2484	B. D.+38° 5091	6.7	49 30	3.0234	+0.0245	------	+38 46 52.48	20.025	0.012	-----	-- 5	--- 6.82
2485	ρ Cassiop	4.8	23 49 52.787	+2.9817	+0.0445	−0.0006	+56 59 55.27	+20.026	+0.011	+0.005	8	3.25
2486	Groomb. 4163	6.6	23 50 26.304	+2.8793	+0.0918	−0.0028	+73 54 34.04	+20.029	+0.009	−0.007	9	3.44
2487	Groomb. 4163 S. P	6.6	50 26.247	2.8793	+0.0918	−0.0028	+73 54 34.01	20.029	0.009	−0.007	9	3.71
2488	Weisse$_2$ XXIII 1027	6.3	52 6.161	3.0538	+0.0134	------	+22 8 49.98	20.034	0.007	-----	8	3.71
2489	V Cephei	6.4	52 12.767	2.7184	+0.1807	+0.0293	+82 41 24.38	20.034	0.005	+0.009	9	3.75
2490	V Cephei S. P	6.4	23 52 12.559	+2.7184	+0.1807	+0.0293	+82 41 23.99	+20.034	+0.005	+0.009	6 7	3.28 3.57
2491	Bradley 3188	6.4	23 53 43.452	+3.0832	−0.0073	+0.0055	−16 20 54.56	+20.038	+0.004	−0.009	11	3.96
2492	Lal. 46981	6.7	53 45.766	3.0475	+0.0217	------	+34 30 42.75	20.039	0.004	-----	8	3.24
2493	σ Cassiop	4.9	54 26.263	3.0258	+0.0433	+0.0013	+55 15 14.25	20.040	0.002	−0.005	9	3.41
2494	ω Piscium	4.0	54 41.332	3.0691	+0.0049	+0.0101	+ 6 21 53.38	20.041	0.002	−0.109	109 107	4.05 4.02
2495	Piazzi XXIII 249	6.8	23 55 3.620	+3.0757	−0.0018	+0.0023	− 6 23 34.06	+20.041	+0.001	−0.054	8	3.31
2496	30 Piscium	4.7	23 57 20.667	+3.0743	−0.0017	+0.0027	− 6 30 51.59	+20.045	−0.003	−0.034	8 9	3.27 3.44
2497	Bradley 3201	5.8	57 53.542	3.0708	+0.0059	−0.0065	+ 7 59 7.34	20.045	−0.004	−0.038	9	3.84
2498	2 Ceti	4.6	59 7.785	3.0742	−0.0078	+0.0013	−17 50 13.38	20.046	−0.007	−0.008	8	3.24
2499	B. D.+13° 5201	7.3	23 59 18.740	+3.0715	+0.0092	------	+13 52 41.53	+20.046	−0.007	-----	0	3.78

2489. Supposed variable, 6m.2-7m.1.

2493. Comp., 7m, 3″, n. pr.

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